



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Kernel

(XU)

Consolidated Patch Notes

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1.0 Introduction

IHS Kernel V8.0 patch XU*8.0*1007 which is a cumulative patch containing IHS Kernel patches 1001-1006 as well as a consolidation of VA Kernel patches XU*8*40 seq 30 through XU*8*226 SEQ #190. Patches seq 1 through 29 were included in the original VA release of Kernel V8.0. Patch XU*8.0*1007 also includes the following packages and patches:

- RPC Broker V1.1 package
- RPC Broker V1.1 patches XWB*1.1*1 seq 1 through XWB*1.1*29 seq 24
- Capacity Management - RUM V1.0 package
- Capacity Management - RUM V1.0 patches KMPR*1*1 seq 1 through KMPR*1*2 seq 2
- SAGG Project V1.0 package
- SAGG Project V1.8 patch KMPS*1.8*1 seq 1
- A4A7 patches A4A7*1.01*9 seq 9 through A4A7*1.01*11 seq 11
- AVA patch AVA*93.2*15

2.0 Kernel Patch XU*8.0*1007

2.1 XU *8*40 SEQ 30: Securing KIDS Messages

Category: Routine

2.1.1 Description

This patch changes the way KIDS secures a Packman Message. The “Enter the scramble hint:” prompt has been removed. A new “Do you wish to secure this message? No//:” prompt will be asked after you enter the text for a message. This patch is the same as MailMan patch XM*7.1*33. Both patches contain the same MailMan and Kernel routines.

2.1.2 Routine Names

XPDTP
XMASEC
XMD

2.2 XU*8*41 SEQ 31: Fixes Problems with PCE 1.0 Install

Category: Routine

2.2.1 Description

This patch contains the following features:

- Fixes problems when installing PCE 1.0; When Options and Protocols are disabled and the Install is restarted, those Protocols remain disabled even when install finishes.
- Protocols are installed without pointer to the Package file.
- All routines were not being installed on all CPUs.
- Fixes bad expression error in DIK1 when loading patch GMRA*4*2 or DVBA*2.7*11
- KIDS will now send an Alert if an Install encounters an error.

2.2.2 Routines

Name	Checksum	Patch List
XPDCPU	6456291	41
XPDET	4654700	15,39,41

Name	Checksum	Patch List
XPDI	15955866	10,21,39,41
XPDIGP	6735250	41
XPDIJ	10666490	2,21,28,41
XPDIJ1	8772642	41
XPDIL1	6509127	15,17,39,41
XPDIP	9642216	15,21,28,30,41
XPDIU	6010331	15,41
XPDT	17390342	2,10,28,41
XPDTC	12638033	10,15,21,39,41
XQOO1	14519526	10,21,39,41

2.3 XU*8*29 SEQ 32: Menu System Updates

2.3.1 Description

This patch contains 7 routines, 1 option, and one input template. It replaces XU*8*4 which has been canceled. It fixes 3 problems in the Menu System:

- Routines XQ72, XQ75, XQ83R, XQCHK, and XQT: If a parent option on the top of a menu tree was placed out-of-order or locked a user might be able to jump through it because of the way the compiled menus in ^XUTL were being built. [NOIS WBP-0895-22132, BYN-0895-11407]
- Routines XQSMD1 and XQOO: Confusion resulted when a user encountered an option that contained a hyphen in the option name. The software could not easily distinguish between this type of option and two different options presented with a hyphen between them as a range of options to select. The software now looks first to see if a single option meets the selection criterion, and if so it ignore the possibility of a range of options.
- The option XUEDITOPT and the input template [XUEDITOPT]: A piece of code was added to the template in Kernel 8 to start micro surgery to rebuild the compiled menus after an option was created or changed. This resulted in errors because the code called FileMan from within a template. The call was therefore moved to the Exit Action of the option to avoid that conflict.

2.3.2 Routines

Routine	Checksum	Patch List
XQ72	10277570	**29**
XQ75	14473337	**29**
XQCHK	7318302	**29**
XQOO	21605060	**10,21,29**
XQSMD1	14983624	**29**
XQT	14370309	**20,29**

2.4 XU*8*42 SEQ 33: Dynamic Par Size for MSM

Category: Routine

2.4.1 Description

Patch for MSM site

This patch changes ZU (for MSM) to look in the TaskMan Site Parameters file for the Task Partition Size field. If this field has data, then a call is made to the MSM utility %PARTSIZ to change the job's partition size limit. TaskMan will also use this value in its job command when starting a new submanager. This will allow sites (1) to reduce the default partition size in SYSGEN, increasing the number of disk buffers, and (2) to adjust partition site for running PCE. If unsure what value to use, leave the TASK PARTITION SIZE field blank and your current system value will be used.

2.4.2 Routines

Routine	New Checksum
ZTM0	5451877
ZUMSM	2237614

After installing this patch, you need to move one routine from your production account to the manager account: ZTM0 to %ZTM0 (i.e.: ZL ZTM0 ZS %ZTM0)

Routine Information:

ZUMSM
ZTM0

2.5 XU*8*35 SEQ 34: %ZOSV2-Support for VPM

Category: Routine

2.5.1 Description

This is an update to %ZOSV2 for VAX/ALPHA sites only. It supports updates to VPM (Kernel Toolkit's VMS Performance Monitor) and must be installed prior to installing Kernel Toolkit patch XT*7.3*17.

2.5.2 Routines

Routine	New Checksum
ZOSV2VXD	value = 9730168

Routine Name: ZOSV2VXD

2.6 XU*8*44 SEQ 35: Rollup Patches into KIDS Distribution

Category: Routine

2.6.1 Description

This patch contains the following features:

- Fixes undef error in XPDIK when install patch with DD's.
- Fixes subscript error when converting a package.
- Fixes nouci errors when MenuMan's Micro-surgery runs on MSM sites.
- Fixes bug that left ^XTMP("XPDI", global for certain patches.
- Fixes bug when Environment Check Routine is run during the load process and the variable XPDQUIT or XPDABORT is set to 2. The Install file would be incomplete and the install would get an undef error.
- New message, if the Install file is incomplete the user will get the message *Install File Corrupted* and the install will abort.
- New Alerts will be sent to the installer if an error occurs during the install process or if a CPU is not updated.
- New options: Routines by Patch Number, Display Patches for a Package, Rollup Patches into a Build, and Check Routines on Other CPUs.
- New type of Build, Multi-Package. It contains a list of other Builds.
- New field, Required Build #11, in file Build #9.6.
- New field, SIGNON/PRODUCTION VOLUME SET #9, in file VOLUME SET #14.5.
- KIDS will support HL7 type fields in the Protocol file, #101.
- KIDS will also support the following files as components:
 - Mail Group #3.8
 - HL7 Application Parameter #771
 - HL Lower Level Protocol Parameter #869.2
 - HL Logical Link #870

2.6.2 Routines

The second line of the routine now looks like:

```
::8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Name	Checksum	Patch List
XPDCPU	6460017	41,44
XPDDCS	4096637	2,44

Name	Checksum	Patch List
XPDDP	11584192	21,28,44
XPDDPCK	3463634	44 (new)
XPDE	15036235	2,15,21,44
XPDER	6591221	44 (new)
XPDET	5054183	15,39,41,44
XPDI	17816610	10,21,39,41,44
XPDIA	12898389	10,15,21,28,44
XPDIA1	7754922	2,44
XPDIJ	10173098	2,21,28,41,44
XPDIL	10583214	15,44
XPDIL1	8511833	15,17,39,41,44
XPDIP	9737651	15,21,28,30,41,44
XPDIU	7734016	15,41,44
XPDR	18038674	1,2,44
XPDT	19190604	2,10,28,41,44
XPDTA	7419894	15,44
XPDTA1	4760350	44
XPDTC	12862739	10,15,21,39,41,44
XPDTP	2384575	21,40,44
XPDV	9865255	30,44
XQ5	13875754	44
XQ7	2506259	44
XTSUMCK	15685964	44 (new)
XTSUMCK1	2208048	44 (new)
ZTPTCH	4513173	44 (new)

2.6.3 Routine Tools

Check Routines on Other CPUs option name: XUPR RTN CHKSUM

This option will compare the Checksum for routines in the Production account of one system to the checksums for the same routines on another system. It is only for sites who have Compute and Print Servers with different routine directories.

Routines by Patch Number option name: XUPR RTN PATCH

This option will print routines associated with a patch. You must enter a list of routines and then the output will be by patch numbers.

2.6.4 Programmer Options

Kernel installs the definition for a patched Package.

Data Dictionary:Partial DD

File: Build #9.6

Field:Required Build #11

Subfield:

.01 Required Build

Type a Build name, a patch or package, that is required to be installed before this Build is installed. KIDS will check the Package file, Version multiple and Patch Application History multiple, to verify that the Required Build has been installed.

1 Action

This is the action you want to happen when installing this Build and the Required Build has not been installed at the site.

Field: Multiple Build #10

Subfield:

.001 Install Order

This is the order in which this package will be installed.

.01 Multiple Build

Name of Build that will be part of this multi-package distribution or a patch that is part of this Build definition.

File: Install #9.7

Field: Volume Set #30

Subfield:

.01 VOLUME SET

Type the name of the Volume Set that you want updated when this package is installed. This field points to the Volume Set file, #14.5. A Volume Set must have the field Sign-on/Production Volume Set, #9, set to YES.

File: VOLUME SET #14.5

Field: SIGNON/PRODUCTION VOLUME SET #9

Type **Yes** if this Volume Set has the following properties:

1. Users can sign-on into the Kernel Menu system or the RPC Broker Server routine is running there.
2. Has a productions UCI which contains application routines.
3. The ^XTMP global is translated.

If you type Yes the Kernel Installation and Distribution System will be able to move

routines to this Volume Set. The Kernel Menu system will be able to run the Menu Microsurgery and keep menus updated.

2.7 XU*8*14 SEQ 36: E-Sig Improvements

Category: Routine, Data Dictionary

2.7.1 Description

E-Sig Improvements:

New E-SIG functions so that other developers can follow the General Counsels guidelines on E-SIG. This comes from a meeting at Birmingham on 9/18-20/95. New routine XUSESIG1.

Changes to the New Person file:

Added a DEGREE field to hold MD, RN, LPN...

Added a DATE E-SIG LAST CHANGED field. The seeding of the this field will be done by taking the current date+random(60)+30 days to give a date when the user will need to select a new E-SIG code. The option XUSESIG BLOCK is included in this patch.

2.8 XU*8*47 SEQ 37: E-Sig Improvements

Menu System: Replaces XU*8*29

Category: Input Template, Routine

2.8.1 Description

You must have Kernel patch XU*8*41 installed before installing this patch.

This patch contains 7 routines, 1 option, and one input template. It replaces XU*8*29 which has been canceled. It fixes 3 problems in the Menu System:

1. Routines XQ72, XQ75, XQ83R, XQCHK, and XQT: If a parent option on the top of a menu tree was placed out-of-order or locked a user might be able to jump through it because of the way the compiled menus in ^XUTL were being built.
2. Routines XQSMD1 and XQOO: Confusion resulted when a user encountered an option that contained a hyphen in the option name. The software could not easily distinguish between this type of option and two different options presented with a hyphen between them as a range of options to select. The software now looks first to see if a single option meets the selection criterion, and if so it ignore the possibility of a range of options.

- The option XUEDITOPT and the input template [XUEDITOPT]: A piece of code was added to the template in Kernel 8 to start micro surgery to rebuild the compiled menus after an option was created or changed. This resulted in errors because the code called FileMan from within a template. The call was therefore moved to the Exit Action of the option to avoid that conflict.

2.8.2 Routine Information

Routine	Checksum	Patch List
XQ72	10277570	**47**
XQ75	14473337	**47**
XQ83R	15234319	**47**
XQCHK	7318302	**47**
XQOO	21605060	**10,21,47**
XQSMD1	14985441	**47**
XQT	14370309	**20,47**

2.9 XU *8*50 SEQ 38: Server Problems

Category: Input Template, Routine, Data Dictionary

2.9.1 Description

This patch contains a routine, and input template, and a change to the data dictionary of the Option File [^DIC(19)]. It corrects 3 problems with servers:

- Server tasks were retained for 30 days in ^ZTSK, and several sites complained that this was too long and, therefore, a waste of disk space. The default task retention time was lowered to 14 days, and a field was added to the Option File (ZTSK RETENTION DAYS) to allow the site to set the retention time for each server on the system from 1 to 365 days.
- A site noted that the edit template XUEDITOPT did not allow them to edit the field SERVER DEVICE when working with a server-type option. This was corrected when the new field was added to the template.
- Under certain circumstances, servers that were designated as "Run Immediately" in the SERVER ACTION field were not running immediately but being queued for NOW because of a logic error thus leaving a task stub in the ^ZTSK global when there need not be one.

2.9.2 Routines

The Second line of the routine should look like this:

```
XQSRV1 ;;8.0;KERNEL;**50**;Jul 03, 1995
```

2.10 XU *8*48 SEQ 39: OE/RR Messaging & Dup Patient

Note: The only way this patch will get installed on an IHS system is by installing OR*2.5*48 or LR*2.5*128.

Associated patches: (c)LR*5.2*128 install with patch `XU*8*48' (c)OR*2.5*48 install with patch `XU*8*48'

Category: Routine

2.10.1 Description

This patch is to be installed with patches:

OR*2.5*48

LR*2.5*128

Patches OR*2.5*48, LR*5.2 orders. It ensures that an add orders session is completed before allowing another one to start. Without this it is possible for the orders for the 1st session to get merged into the orders for the second session.

Code has also been added to process HL7 messages in preparation for OE/RR 3.0.

2.10.2 Routine Information

Routine	Patch	Checksum
XQOR	**48**	8842480
XQOR1	**48**	12456553
XQORO	**48**	13483713
XQOROP	**48**	1982251

2.11 XU *8*51 SEQ 40: Can't Send Global Package

Associated patches: (v)XU*8*50 <=< must be installed before `XU*8*51'

Category: Routine

2.11.1 Description

You need to install Kernel Patch XU*8*50 before installing this patch.

This patch now allows you to transport a Global package correctly. This bug was introduced with patch 44.

- The input transform for the Name field in the Build file has been changed to allow sites to create local patches. It now allows 6 digit patch numbers i.e. XU*8.0*662001
- Kernel 8 patches will now contain the sequence number in the Patch Application History multiple of the Package file.
- HL Logical Link entries were not being cross-referenced.
- The post-install routine XQP50 will update the Patch Application History multiple with the information about patch 50. The Date Applied and Applied by fields will be the same as this patch.

2.11.2 Routine Information

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDE	15036235	15041471	2,15,21,44,51
XPDET	5054183	5054366	15,39,41,44,51
XPDIA1	7754922	7766653	2,44,51
XPDIP	9737651	9751058	15,21,28,30,41,44,51
XPDIU	7734016	7856776	15,41,44,51
XQP50	NEW	4073107	51

2.12 XU *8*36 SEQ 41: Fixes to NOIS Problems

Category: Routine, Data Dictionary, Print Template

2.12.1 Description

- There was request from the field about large numbers of Device Lock bulletins sent when a user leans on keyboard and that the Device Lock bulletins aren't much help.

The check if a user needed to be deactivated was counting 'Keep at Terminate' keys even though they would never be removed. The check to close hung Spool documents had an incorrect test. The purge option was failing to get any site data from the Kernel System Parameter file. It was looking at the wrong node. If the data in the spool file was longer than 255 characters, it would cause an error in %ZIS4 on DSM systems. This has been fixed but the report may not print the way it would have if sent directly to the printer.

When the number of spool documents is checked, only those with data are counted. This is changed to count all spool documents with or without data.

- There was a request for a way to have the current date as part of a auto generated name (Generate SPL Doc Name). Now if the device name includes *DT* that string will be replaced with the current date.
- This patch includes Person class in the User Inquit has any tasks in it.
- This patch adds two new fields to the TaskMan site parameter file (14.7): (1), Min Submanager CNT, allows a site to set a lower limit on the number of submanagers to keep around. (2), TM MASTER, is only used when a volume set is mounted on another but shares the library account. This is a pointer back to file 14.7 and would point to the entry that is the control entry for TaskMan on that node.
- DIC error in Add a New User. Problem in the page numbering of the new form for Add a New User and Secondary menus. Sending out all three forms with unified page numbering.
- Some sites have some leftover nodes in the Institution file. Collect more data in the standard error trap. In patch 24 \$X was set to zero before doing the close execute code. This was changed to check if \$X>0 and to set it to 1 so that code (like P-message) that test \$X would still work. If some package was installed after Kernel 8, the "ID" nodes on the new person file got changed back to an early version. Nodes are reset.
- Changes to FTG^%ZISH made in XU*8*24 didn't work for input like S Y=\$\$FTG^%ZISH("", "TEST.DAT", \$NA(OUT(0)),1) it did work fine on S
- Y=\$\$FTG^%ZISH("", "TEST.DAT", \$NA(^TMP("XX", \$J,0)),3). Fixed. Various requests to bring back ZTMGRSET. This new version will load all all routines if called from the top, or only the routines with a given patch number if called at RELOAD^ZTMGRSET.
- While testing changes to %ZTER for use with the new error trap we got ECODE errors under some conditions. This has been fixed with a small change to %ZTER.

2.12.2 Routine Information

Routine	CheckSum	Second Line
XUINPCH	1467475	::8.0;KERNEL;**20,36**;Feb. 9, 1996
XUSTZ	3010944	::8.0;KERNEL;**36**;Jul 10, 1995
XUTMUSE2	13026855	::8.0;KERNEL;**36**;Jul 10, 1995
ZIS3	6450084	::8.0;KERNEL;**18,36**;JUL 10, 1995
ZIS4MSM	6649854	::8.0;KERNEL;**23,36**;JUL 03, 1995
ZIS4VXD	8342152	::8.0;KERNEL;**23,36**;JUL 03, 1995
ZISC	8463272	::8.0;KERNEL;**24,36**;JUL 10, 1995

Routine	CheckSum	Second Line
ZISHMSM	5354551	::8.0;KERNEL;**24,36**;JUL 10, 1995
ZISHVXD	7245146	::8.0;KERNEL;**24,36**;JUL 10, 1995
ZISPL1	8550686	::8.0;KERNEL;**23,36**;Jul 10, 1995
ZISPL2	4088281	::8.0;KERNEL;**23,36**;Jul 10, 1995
ZISTCP	1828160	::8.0;KERNEL;**36**;Jun 02, 1994
ZTER1	5603505	::8.0;KERNEL;**18,24,36**;JUL 10, 1995
ZTM	7805017	::8.0;KERNEL;**24,36**;JUL 10, 1995
ZTM0	5563711	::8.0;KERNEL;**42,36**;JUL 10, 1995
ZTM5	3748675	::8.0;KERNEL;**24,36**;JUL 10, 1995
ZTMGRSET	12724965	::8.0;KERNEL;**36**;Dec 30, 1993
ZTMON1	7519989	::8.0;KERNEL;**36**;Jul 10, 1995
ZTMS1	6210144	::8.0;KERNEL;**36**;JUL 10, 1995
ZTMS2	5283853	::8.0;KERNEL;**2,18,23,36**;Jul 10, 1995
ZTMS3	9454395	::8.0;KERNEL;**1,18,36**;Jul 03, 1995

2.12.3 Remove Routines

After installing this patch, you need to move several routines from your production account to the manager account:

```
ZIS4MSM
ZIS4VXD
ZISC
ZISHMSM
ZISHVXD
ZTER
ZTM0
ZTM5
ZTMGRSET
ZTMON1
ZTMS
ZTMS1
```

ZTMS2
ZTMS3

In the manager account, rename these routines as % routines.

2.13 XU *8*53 SEQ 42: Updated P-Message Setup

Note: This is a MANUAL patch

```
CLOSE EXECUTE:W:$X ! S XMREC="R X#255:1" X "U IO:(::0)" D
```

```
^XMAPHOST,READ^XMAPHOST C IO S X=$ZOS(2,XMPMSG) K  
XMPMSG,XMIO,IO(1,IO) Q
```

2.13.1 Description

Special Terminal Type used only for P-Message-HFS-MSM device.

Device: For MSM environment.

Name: P-Message-HFS (MSM)

\$I: 51

Ask Device: No

Ask Parameters: No

Forced Queuing: No

Location of Terminal: HFS (MSM) File => Message

Local Synonym: Mail Message

Pre-Open Execute: S XMPMSG="C:\TMP\XM" _DUZ_ ".DAT"

Open Parameters: (XMPMSG:"M")

Subtype: P-Message-HFS-MSM

Type: Host File Server

2.14 XU *8*56 SEQ 43: Unwinder Changes for TIU

Category: Routine

2.14.1 Description

This patch adds changes to the Unwinder (XQOR*) routines in support of the Text Integration Utilities (TIU) package and in preparation for CPRS v 1.0. These changes include:

- The ability to programmatically change the menu passed to XQOR
- Some modifications to the response time monitoring calls
- The suppression of linefeeds when XQORM is called non-interactively
- The ability to accept numeric input within a range and pass it to a protocol that is executed

- The storage of HL7 messages in ^TMP to free up partition space.

2.14.2 Routine Information

Routine	CheckSum	Second Line
XQOR	9127411	::8.0;KERNEL;**48,56**;Jul 10, 1995
XQOR1	11515076	::8.0;KERNEL;**48,56**;Jul 10, 1995
XQOR4	5733857	::8.0;KERNEL;**56**;Jul 10, 1995
XQORM	3202647	::8.0;KERNEL;**56**;Jul 10, 1995
XQORM2	8412239	::8.0;KERNEL;**56**;Jul 10, 1995
XQORM3	6317733	::8.0;KERNEL;**56**;Jul 10, 1995
XQORO	13000044	::8.0;KERNEL;**48,56**;Jul 10, 1995

2.15 XU *8*55 SEQ 44: Re-Issue of E-Sig Improvements

Category: Routine

2.15.1 Description

This is a reissue of Patch XU*8*14 without the code that requires the users to change their E-SIG every 90 days. You may install this patch whether or not you previously installed XU*8*14. (Sites who installed XU*8*14 prior to it being marked 'Entered in Error' were advised that they need not de-install the patch.)

The new E-Sig functions allow developers to follow the General Counsel's guidelines on E-Sig. The guidelines are the result of a meeting held in Birmingham on 9/18-20/95. A new routine, XUSESIG1, is included in this patch.

Changes to the New Person file: Added a Degree field to hold MD, RN, LPN...
Added a Date E-Sig Last Changed field. This field is just for on-line documentation purposes. Sites may use this field for local reporting and management, but the Kernel does NOT perform any action aside from updating the field when the E-Sig is changed by the user.

The option XUSESIG BLOCK is included in this patch. The forms XUEXISTING USER, XUREACT USER, and XUNEW USER are included in the patch. The new field DEGREE has been added to the Forms.

2.15.2 Routine Summary

The following routines are included in this patch.

The second line of these routines now look like:
::8.0;KERNEL;**[patch list]**;Date

CHECK^XTSUMBLD results:

Routine Name	Before Patch 14	After Patch 14	After Patch	Patch List
XUSESIG	5534368	5865804	6027869	**14,55**
XUSESIG1	N/A	864068	864068	**14,55**

2.16 XU *8*57 SEQ 45: Viewing Out-of-Order Protocols

Category: Routine

2.16.1 Description

This patch contains a single routine, ^XQOO3, that fixes a bug in the option "Protocols Marked Out Of Order in Protocol File." In the event that there was a single set of protocols marked as Out-Of-Order the software would fail with an <UNDEF> error.

2.16.2 Routines

The second line of the routine now looks like this:

```
;;8.0;KERNEL;**57**;Jul 10, 1995
```

Name	Checksum	Checksum	Patch List
XQOO3	8090117	8314463	**57**

2.17 XU *8*58 SEQ 46: KIDS Fixes

Category: Routine, Data Dictionary

2.17.1 Description

Prerequisites: none

This patch contains the following features and corrections:

- An undefined error when installing data and the user said 'NO' to install the Data Dictionary. Since the Data Dictionary is not present, the user gets an error.
- Duplicate FileMan templates were not being installed, even if they were for two different files.
- The question, 'Want to RUN the Environment Check Routine', will only be asked if the Build has an Environment Check Routine.
- Restarting an Install ignores the variable XPDNOQUE, when the variable is set in an Environment Check Routine.
- The Option 'Compare Transport Global to Current System' will now let you compare just routines or just the second line of routines.

- An Option or Protocol can now have an 'Action Type' of 'Attach to Menu' or 'Disable During Install'.
- The user will now be prompted for the Mail Group Coordinator if an Install is sending Mail Group(s).
- Developers can now send Options and Protocols with the Out of Order Message field already set. The Options and Protocols will remain out of order after the install has completed.

2.17.2 Routine Information

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine Before	Checksum After	Checksum	Patch List
XPDCOM	2299089	5277873	21,58
XPDET	5054366	5058369 1	5,39,41,44,51,58
XPDH	2594827	3370027	58
XPDI	17816610	13319818	10,21,39,41,44,58
XPDI1	new	6631631	58
XPDIA	12898389	13293339	10,15,21,28,44,58
XPDIA1	7754922	7937994	2,44,51,58
XPDIB	2632713	2753452	10,58
XPDIK	10192795	14344733	15,58
XPDIL	10583214	11156235	15,44,58
XPDIP	9769805	9760615	15,21,28,30,41,44,51,58
XPDIQ	6693337	7513883	21,28,58
XPDIR	2689416	2964712	30,58
XPDIU	7856776	8165680	15,41,44,51,58

Routine Before	Checksum After	Checksum	Patch List
XPDT	19179554	19247892	2,10,28,41,44,51,58
XPDTA	7419894	7580607	15,44,58
XPDTC	12862739	13401215	10,15,21,39,41,44,58
XPDV	9865255	11643577	30,44,58
XQOO1	14519526	14826502	0,21,39,41,58

2.18 XU *8*61 SEQ 47: Corrects Error from XU*8*58

Associated patches: (v)XU*8*58 <<= must be installed BEFORE `XU*8*61'

Category: Routine

2.18.1 Description

Prerequisites: XU*8.0*58

This patch corrects two errors that was introduced in patch XU*8.0*58. An undefined error occurred at DIR+19^XPDIQ if the installing package asks an question without having a default answer.

When moving routines to other CPUs and the install is not queued, the job on the other CPU will show the message, "Can't Lock global, another XPDCPU must be running".

2.18.2 Routine Information

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDIQ	7513883	7519323	21,28,58,61
XPDI1	6631631	6640407	58,61

2.19 XU *8*66 SEQ 48: KIDS Fixes

Category: Routine

2.19.1 Description

This patch contains the following fixes and features:

- A no label error when installing patch XU*8*58 on an Open M system.
- A "Not a production UCI" message displays on all patch installs on an Open M system.
- The National Package install module on FORUM can now track patches.
- KIDS will now be able to update the module for patches.
- Corrects a problem with multi-builds. When a multi-build contains more build names that can fit on one header line, a second header line is create. The first build on the second line will begin with a colon, this will prevent the build from being installed.

2.19.2 Routine Information

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Before After Patch

Routine	Before Checksum	After Checksum	Patch List
XPDET	5058369	5059212	15,39,41,44,51,58,66
XPDIL1	8511833	8519937	15,17,39,41,44,66
XPDIST	2343711	2400065	66
XPDT	19247892	19357441	2,10,28,41,44,51,58,66

2.20 XU *8*49 SEQ 49: NOIS Fixes

Category: Routine, Data Dictionary, Sort Template

2.20.1 Description

Note: Sites currently testing Broker version T9 or who have installed a test version of XU*8*59 will need to reinstall XU*8*59 after installing this patch.

This patch fixes the following requests:

- When using the option 'Resource Device Edit,' the field 'RESOURCE SLOTS' would get reset to 1. The patch resolves this by performing changes to the DD.

- When a system crashes, resources are left and still allocated, preventing new jobs from starting. This patch provides a new option that can release all resources at startup (Clear all Resources) and also an option to release a given slot on a resource (Clear one Resource). New routine XUDHRES, change to ZIS6, ZISC.
- The option to delete unreferenced options from the option file didn't check for options used in the new TaskMan Schedule file. Added field 209.2 (keep from deleting) to the option file.
- It was possible to get an earlier entry with the Effective Date greater than the next entry. This caused problems when programmes tried to find the current person class. Fixed with a change to the DD so only greater dates are allowed.
- When using the RJD option to stop a TaskMan job, you used to have to display the task before you could delete it. Modification to routine XUTMRJD was made to allow site to say NO to the display and still delete the task from the running task list. MSG 1060759 (Pete Tichenor) Removes the testing for MWAPI from ZUMSM. (Trouble calls) Have XUS display the Node the user is on. Changed the XUS routine to display the Volume-set:Node rather than just the Volume-set alone. Changed the first read to include output text as before in order to flush the input buffer on certain systems, such as MSM. (E3R 8568)
- Cleans-up pointers to files 3,6,16,20 in sort and print templates. It adds checks to code of XUSERNEW, XUA4A7 so they are ready for file 3,6,16,20 cleanup.
- Cleans up cross-references in files DEVICE, OPTION, and KERMIT HOLDING.
- Invalid Lock - This patch adds a timeout to the one lock without one. Routine XUTMK was modified to resolve this problem. (E3R #9278)
- Updates the ID nodes of files 3.2 and 3.5 to use DDIOL.
- Routine XUINPCH Corrects a problem with the status code returned by STAT^%ZTLOAD. It formerly returned "Inactive: Interrupted" when it should have returned "Active: Running". Fixed with changes to %ZTLOAD5.
- Changes a call in %ZTMS3 from ZSYNC to PURGELST^%MSMOPS on MSM 4.3 systems. In response to a request from MSM.
- Changes the way %ZTMS1 waits under load.
- Changes %ZIS4 to clean up the IO("ERROR") and IO("LASTERR") variable.
- This patch made a change to the setting of IO("ZIO"). ZIS4VXD, ZIS4MSM.
- Changes PRIORITY code to keep jobs from assuming system priority. (Capacity Management ZOSVMSM)
- Fix \$\$STATUS^%ZISH not looking at the correct variable.

- Improves the \$STACK reporting on DSM systems.
- Adds the following new entry point for modifying resource devices (please see the Supported References file for full details):

2.20.2 Routine Information

Routine	Before Checksum	After Checksum	Patch List
XQ33	8337880	8946889	**49**
XUA4A7	5092665	5114645	**49**
XUA4A72	2742817	3400179	**27,49**
XUDHRES	917964		**49**
XUDHSET	1534104		**49**
XUINPCH	1467475	2465171	**20,36,49**
XUS	7592994	7619050	**16,26,49**
XUSERNEW	6789632	6995154	**16,49**
XUTMK	6472549	6514964	**49**
XUTMRJD	6336192	6554859	**49**
ZIS1	9986473	10316454	**18,49**
ZIS4MSM	6649854	7202298	**23,36,49**
ZIS4VXD	8342152	8150990	**23,36,49**
ZIS6	9961139	9917028	**24,49**
ZISC	8463272	7980129	**24,36,49**
ZISHMSM	5354551	5354575	**24,36,49**
ZOSVMSM	11524674	11538678	**13,25,49**
ZTER1	5603505	5664740	**18,24,36,49**
ZTLOAD5	4735916		**49**
ZTMS1	6234917	6234917	**36,49**
ZTMS3	9454395	9603212	**1,18,36,49**
ZUMSM	2237614	2252648	**13,42,49**

2.20.3 Routine Callable and Routine Description

This patch introduces the following new routines:

XUDHRES Resource device utility
 XUDHSET \$\$RES^XUDHSET Device setup

After installing this patch:

1. DSM and MSM sites need to move several routines from your production account to each manager account:

ZIS1
 ZIS4MSM
 ZIS4VXD
 ZIS6
 ZISC
 ZISHMSM
 ZOSVMSM
 ZTER1
 ZTLOAD5
 ZTMS1
 ZTMS3

- In the manager account (DSM and MSM sites), or production account (OpenM):

DO ^ZTMGRSET

2.21 XU *8*64 SEQ 50: Numerous NOIS Fixes

Category: Routine

2.21.1 Description

This patch will fix several Kernel routines that were reported from NOIS:

- Inaccurate information is being displayed for 'Secure Menu Delegation' if field 'VA#' contains information equal to the user's DUZ. XQSMD3 was modified to ensure (using ""_DUZ) DIC lookup will find DUZ information.
- Undefined %ZTTV(1). %ZTMS3 was modified to ensure that %ZTTV(1) exist with valid information.
- Routine %ZTM: Logic was modified to ensure value of \$T would be protected if an attempted LOCK command was timed-out in the middle of an If-Else statement. No specific NOIS attached to this fix.

2.21.2 Routine Information

Routine	Before Checksum	After Checksum	Second Line
XQSMD3	14681169	14705330	::8.0;KERNEL,**64**;Jul 10, 1995
ZTMS3	9603212	9572340	::8.0;KERNEL,**1,18,36,49,64**;Jul 03, 1995

2.21.3 Post Installation

- DSM and MSM Sites: Move the following routines from your production account to the manager account:

ZTM
ZTMS3

- All Sites: In the manager (DSM and MSM) or production (OpenM) account:

DO RELOAD^ZTMGRSET

2.22 XU *8*59 SEQ 51: Kernel Update for Broker 1.1

Category: Routine, Data Dictionary, Input Template

2.22.1 Description

Note: You must have a version of the RPC Broker installed before installing this patch. It can be V1.0 or V1.1. There is an environment check to see that file 8994 exists.

This is the Auto Sign-on patch (a.k.a. Single Sign-on)

This patch has several Kernel routines as well as new fields in the Kernel System parameters file and the New Person file and the forms to edit these files. Please be sure to edit the Auto Sign-on field in the Kernel System parameters file.

Note: This patch will increase the use of the Lock table

Note: That Auto Sign-on does not work on MSM systems.

- All of this work is in support of RPC Broker, CPRS and GUI clients.
- There were some other fixes that had been applied to the routines and files needed by this patch so they are also fixed. To the "Enter/Edit Kernel Site Parameters" form; Added the AUTO SIGN-ON field to page 1, Added the DEFAULT DIRECTORY FOR HFS field to page 3.
- File 3.081 Field 1 changed from 15 to 30 characters.
- The setting of DIPCR1A, DIASKHD, and DISUPNO was not correct and has been fixed.
- XQ1 Startup Options Getting Deleted in file 19.2
- File 200 Field 20.2 changed from 30 to 40 characters.

2.22.2 Routine Information

Routine	Before Checksum	After Checksum	Patch List
XQ1		11726256	**1,15,59**

Routine	Before Checksum	After Checksum	Patch List
XQ82		3479466	**59**
XQT1		10251041	**59**
XUINENV		713144	**59**
XUS		8138431	**16,26,49,59**
XUS1	8848266	10420726	**9,59**
XUS1B		1917370	**59**
XUS2		14055468	**59**
XUSCLEAN	6326709	6583467	**13,59**
XUSRB	2961367	4666750	**11,16,28,32,59**
XUVERIFY	3907067	3888236	**2,26,59**
ZIS4MSM	6649854	7202298	**23,36,49,59**
ZIS4ONT		8238234	**34,59**
ZIS4VXD	8342152	8151150	**23,36,49,59**
ZISTCP	2230177	2687385	**36,34,59**

DSM/MSM Sites - Move the following four routines to the MGR account.

ZIS4MSM
 ZIS4ONT
 ZIS4VXD
 ZISTCP

All sites:

DO ^ZTMGRSET

2.23 XU *8*70 SEQ 52: Auto Sign-on & PCMM Fix

Category: Routine

2.23.1 Description

Patch XU*8*59 MUST be installed before this patch.

A problem was found when using a Broker v1.0 application on Windows 95 and server side has Broker v1.1 with Auto sign-on. The 16bit app will prevent the server from contacting the ClientAgent, this will cause the 16 bit PCMM to time-out and close the sign-on. The fix is to disable the auto sign-on if the client is Broker v1.0

It was found that the Broker sign-ons were allowed even when Logons were inhibited.

Both problems fixed by patching XUSRB. XUSRA The SQLI interface was making use of a call in XUSRA that called an entry point in XUS that had changed with patch 59. This is now fixed.

2.23.2 Routine Information

Routine	Old	New	Patch List
XUSRA	1213791	1890066	**70**
XUSRB	4666750	5125201	**11,16,28,32,59,70**

2.24 XU*8*62 SEQ 53: Unwinder Changes for CPRS

Category: Category: Routine and Enhancement

2.24.1 Descriptions

This patch provides enhancements and bug fixes for the protocol unwinder functionality.

2.24.1.1 Enhancements

1. This patch will allow a calling package to define the variable XQORM("ALT") to allow an alternate look-up. This will allow the user to enter a choice that does not appear on the menu. This is useful when the developer wants to display a list of possible choices, but allow the user to also select from items not displayed. This will be utilized by the upcoming release of CPRS.
2. This patch adds "E" as an allowable flag for XQORM(0). The "E" flag will allow ambiguous lookups to be resolved interactively when XQORM is called without XQORM(0) containing an "A".

2.24.1.2 Bug Fixes

1. This patch will correct a problem that caused a user to be exited from a menu if they inappropriately answered a prompt for a numeric range. If, for example, the user mistakenly entered 1-4B, they would be prompted 'For entry 1-4B enter: '. If the user entered return at the prompt, they would be exited from the menu.
2. This patch will fix a problem which caused a user to only see the last few selectable options when they attempted to ^JUMP from within a List Manager application. Full screen mode will now be invoked earlier so that all selectable choices will be viewable.
3. This patch also fixes an error caused when a user entered extraordinarily long selections (usually caused by something laying on the keyboard).

2.24.2 Routines

The following is a list of the routine(s) included in this patch. The second line of each of these routine(s) will look like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

CHECK^XTSUMBLD results

Routine name	Before Patch	After Patch	Patch List
XQOR4	5733857	5814261	56,62
XQORM2	8412239	8992146	56,62
XQORM3	6317733	6381315	56,62
XQORM4	4355781	4443757	62

Routine Information:

Routine Name: XQORM2

Description of Changes:

Routine Checksum:

Routine Name: XQOR4

Description of Changes:

Routine Checksum:

Routine Name: XQORM3

Description of Changes:

Routine Checksum:

Routine Name: XQORM4

Description of Changes:

Routine Checksum:

2.24.3 Installation Instructions

The protocol unwinder affects many applications. For this reason, it is recommended that you install this patch during non-peak hours to minimize possible disruption for users. Alternately you may wish to install this patch during scheduled downtime. Installation will take less than 1 minute.

- a. Use the Install/Check Message option on the PackMan menu.
- b. Review your mapped set. If any of the routines listed in the Routine Summary section are mapped, they should be removed from the mapped set at this time.
- c. From the Kernel Installation and Distribution System Menu, select the Installation menu.
- d. From this menu, you may elect to use the following options (when prompted for INSTALL NAME, enter XU*8.0*62):
 - Backup a Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
- e. Use the Install Package(s) option and select the package XU*8.0*62.
- f. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//', respond NO.
- g. If routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.25 XU*8*68 SEQ 54: KIDS Fixes

Category: Routine

2.25.1 Descriptions

Note: This patch must be QUEUED during the install process.

This patch contains fixes that were identified by mail messages and E3R -A patch will not be installed if the site is not running the correct version for the package.

- Multiple Build definition will now be sent to the site, along with all the builds that make up the Multiple Build. E3R #10306.
- Protocols will now delete properly at the site.
- The variable XPDABORT will correctly abort the install in both the Pre & Post install routines.

- The variable DIR is newed before call to environment check routine. ISW-0597-21778

2.25.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like: ;;8.0;KERNEL;**[patch list]**;Jul 10, 1995

Routine	Before Checksum	Before Checksum	Patch List
XPDDP	11584192	11970878	**21,28,44,68**
XPDE	15041471	15253053	**2,15,21,44,51,68**
XPDI	13319818	13691537	**10,21,39,41,44,58,68**
XPDIA	13293339	13299802	**10,15,21,28,44,58,68**
XPDIA1	7937994	9226085	**2,44,51,58,68**
XPDIA2	3520152	6372331	**68**
XPDIJ	10173098	10435806	**2,21,28,41,44,68**
XPDIJ1	8772642	9316977	**41,68**
XPDIL	11156235	11193690	**15,44,58,68**
XPDIL1	8519937	9389594	**15,17,39,41,44,66,68**
XPDIPM	1817853	1853883	**21,28,68**
XPDT	19357441	18817747	**2,10,28,41,44,51,58,66,68**
XPDTA1	4760350	4948004	**44,68**

Routine Information:

Routine Name: XPDE
Description of Changes:
Routine Checksum:

Routine Name: XPDIA2
Description of Changes:
Routine Checksum:

Routine Name: XPDIJ
Description of Changes:
Routine Checksum:

Routine Name: XPDIJ1
Description of Changes:
Routine Checksum:

Routine Name: XPDIL1
Description of Changes:
Routine Checksum:

Routine Name: XPDT
Description of Changes:
Routine Checksum:

Routine Name: XPDIA
Description of Changes:
Routine Checksum:

Routine Name: XPDI
Description of Changes:
Routine Checksum:

Routine Name: XPDIL
Description of Changes:
Routine Checksum:

Routine Name: XPDIPM
Description of Changes:
Routine Checksum:

Routine Name: XPDIA1
Description of Changes:
Routine Checksum:

Routine Name: XPDTA1
Description of Changes:
Routine Checksum:

Routine Name: XPDDP
Description of Changes:
Routine Checksum:

2.25.3 Install Instructions

This patch can be installed with users on the system, but no other users should be using KIDS while you install this patch. Since this patch is an update to KIDS, no other patches should be installed during the installation of this patch.

Note: This patch must be queued during the install process.

INSTALLATION:

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.

3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s) install name: XU*8.0*68
6. At the device prompt, make sure you queue the install: DEVICE: HOME//
QUEUE TO PRINT ON
7. AXP Sites, after patch has installed, rebuild your map set.

2.26 XU*8*63 SEQ 55: Consolidated Error Screening

Category: Routine, Data Dictionary

2.26.1 Descriptions

This patch was requested because of different errors that needed to be screened at the OpenM site.

This patch updates the error routines and TaskMan to use a common place to check to see if errors should NOT be recorded or should be screened from the normal XTER listing. The current ERROR MESSAGE file has been enhanced to control this action. The %ZTER routine checks the list and will not record errors that are flagged not to record.

Sites can add their own entries to the file. There is a field to allow the advanced strings that TaskMan has been using. Current entries in TaskMan error screen file are moved to the new file as part of the install.

2.26.2 Routines

Checksum

Routine	Old	New	2nd Line
XTER	17066911	17970380	**63**
XTER1A	16667281	16315266	**63**
XUINPCH	2465171	3137390	**20,36,49,63**
XUTMKE1	5103401	3519416	**63**

Routine	Old	New	2nd Line
XUTMKE2	9221275	2696336	**63**
ZTER	18727059	19357862	**8,18,32,24,36,34,63**

Routine Information:

Routine Name: XTER
 Description of Changes:
 Routine Checksum:

Routine Name: XTER1A
 Description of Changes:
 Routine Checksum:

Routine Name: XUTMKE1
 Description of Changes:
 Routine Checksum:

Routine Name: XUTMKE2
 Description of Changes:
 Routine Checksum:

Routine Name: ZTER
 Description of Changes:
 Routine Checksum:

Routine Name: XUINPCH
 Description of Changes:
 Routine Checksum:

2.26.3 Installation

1. DSM - There is no need for these routines to be mapped.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

4. Users can remain on the system. This patch can be queued and installed at any time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
Install Package(s) 'XU*8.0*63'
6. After installing this patch.

DSM/MSM - You need to move one routine from your production account to each manager account: ZTER

And in the manager account, (OpenM sites remain in VAH) DO
RELOAD^ZTMGRSET

Select the System

Patch number to load: 63

2.27 XU*8*65 SEQ 56: NOIS XQAL and Other Fixes

Category: Routine and Data Dictionary

2.27.1 Descriptions

NOIS	Routine	Description
HUN-0396-21050 HUN-0996-21721 Forum 24021577	XQAL*	Fix several small problems that cause errors in special cases. Changed to use TMP from XUTL. If the user has a mix of Info and action alerts, during processing of alerts the display will stop before doing an action that could cause info to scroll off the top.
CIRN	ZISHMSM	Fix the way that %ZISH under MSM open's multiple host files.
TUA-0997-30470 CHY-1097-52881	ZISH*	Fix to use the DEFAULT DIRECTORY FOR HFS field in file 8989.3 (KSP). Fix use of record size to match CIRN.
LAK-0897-30499		DEVICE file \$I field length increased to 40 char.
AXP TEAM	ZOSFVXD ZOSVVXD	Disable priority changing, this has caused performance problems when lower priority jobs hold locks on critical code sections.
CHY-0597-50132	XUS91 XUWORKDY	Made a fix to make the code more robust. Fix description for rescheduling frequency. Fix problem if HOLIDAY file is missing.

2.27.2 Routines

Checksum

Routine	Old	New	2nd Line
XQALDEL	13827021	12561210	**6,24,65**
XQALDOIT	10428734	9852030	**1,6,65**
XQALERT	5798541	5307017	**1,65**
XQALERT1	19524336	18178207	**20,65**
XQALFWD	10036386	10058961	**6,65**
XQALSET	13085815	12680442	**1,6,65**
XUINPCH	3256791	3950316	**20,36,43,49,63,65**
XUPARAM		1006391	**65**
XUS91		8526517	**18,65**
XUTMG43		921517	**18,65**
XUWORKDY	1331031	1179273	**65**
ZISHMSM	5354551	5685657	**24,36,49,65**
ZISHONT		5001907	**34,65**
ZISHVXD		6891389	**24,36,65**
ZOSFVXD	7401132	7407077	**65**
ZOSVVXD	7519714	7658715	**13,65**
ZTPTCH	4509174	4561379	**44,65**

Routine Information:

Routine Name: XQALDEL

Description of Changes:

Routine Checksum:

Routine Name: XQALDOIT

Description of Changes:

Routine Checksum:

Routine Name: XQALERT

Description of Changes:

Routine Checksum:

Routine Name: XQALERT1

Description of Changes:

Routine Checksum:

Routine Name: XQALFWD

Description of Changes:

Routine Checksum:

Routine Name: XQALSET

Description of Changes:

Routine Checksum:

Routine Name: XUINPCH

Description of Changes:

Routine Checksum:

Routine Name: XUPARAM

Description of Changes:

Routine Checksum:

Routine Name: XUS91

Description of Changes:

Routine Checksum:

Routine Name: XUTMG43

Description of Changes:

Routine Checksum:

Routine Name: XUWORKDY

Description of Changes:

Routine Checksum:

Routine Name: ZISHMSM

Description of Changes:

Routine Checksum:

Routine Name: ZISHONT

Description of Changes:

Routine Checksum:

Routine Name: ZISHVXD

Description of Changes:

Routine Checksum:

Routine Name: ZOSFVXD

Description of Changes:

Routine Checksum:

Routine Name: ZOSVVXD

Description of Changes:

Routine Checksum:

Routine Name: ZTPTCH

Description of Changes:

Routine Checksum:

2.27.3 Installation

1. DSM sites some of these routines are usually mapped, so you will need to disable mapping for the effected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. Inhibit users from login into the system. (If you install when few user are on the system and the possibility of some CLOBBER/EDITED errors is acceptable then users can stay on the system.)
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s) 'XU*8.0*65'
6. After installing this patch, DSM/MSM sites - you need to move several routines from your production account to each manager account: OpenM Sites - you don't need to move anything, skip this step.
 - ZISHMSM
 - ZISHONT
 - ZISHVXD
 - ZOSFVXD
 - ZOSVVXD

And in the manager account, (OpenM sites remain in VAH)

All sites:

DO RELOAD^ZTMGRSET

Select the System

Patch number to load: 65

7. DSM Sites, after patch has installed, rebuild your map set.
8. Enable user's login.

2.28 XU*8*73 SEQ 57: Continued NOIS Fixes

Category: Routine

2.28.1 Descriptions

Note: This patch is a high priority because it is needed by the OpenM sites to adjust to changes made by Intersystem in build 52e that is going out to the sites.

NOIS	Routine	Description
ISL-0198-51102	XUSTERM	Didn't have code to call the extended-action option in XUSTERM2.
	XQ33	Fix from IHS about deleting options.
	ZTER	The options XUDEV RES-ONE and XUDEV RES-CLEAR didn't get linked to the XUTIO menu in patch 49. Resending to link them up. Change to allow OpenM sites to use the new error trapping. The check was conditional because early versions didn't support this. Then OpenM started changing its name with each version. Fixed to remove version checking, assume all VA site running current version that supports standard error trapping.
BIL-0298-30193		Alert tracking file 8992.1 was missing field .08 to control retention of alerts.

2.28.2 Routines

Routine	Old	New	2nd Line
XQ33	8946889	9007179	**49,73**
XUSTERM		14376497	**36,73**
ZTER	18727059	19441177	**8,18,32,24,36,63,73**

Routine Information:

Routine Name: XUSTERM

Description of Changes:

Routine Checksum:

Routine Name: ZTER

Description of Changes:

Routine Checksum:

Routine Name: XQ33

Description of Changes:

Routine Checksum:

2.28.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*73'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. After installing this patch, DSM/MSM sites - you need to move one routines from your production account to each manager account: OpenM Sites - you don't need to move anything, skip this step.
 - ZTER
 - And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 73
8. MSM sites move these routines to the MGR accounts on other CPU's.
9. DSM Sites, after patch has installed, rebuild your map set.

2.29 XU*8*60 SEQ 58: Fix Namespace Problem/Fix Microsurgery

Category: Routine

2.29.1 Descriptions

Prerequisites: Patch 44 must be installed before this patch.

XU*8*60 Correct Namespace Problem/Fix Microsurgery

When the routine XUSHSHP was written to hash the signature block in file 200, several local variables were used that were not within the Kernel namespace. As would be expected, at least one of the variables is now another namespace and conflicts have arisen. This patch uses the NEW command to limit the scope of these incorrectly namespaced variables to the code in which they are used, and will prevent future problems with other packages due to this error.

Several alpha sites reported unusually high activity associated with the XUTL global. This was identified as a problem related to a spuriously high date value being set into the "AT" cross reference in file 19. Since this date was always ahead of NOW, micro-surgery would restart as soon as it had completed. To correct this problem, this patch contains a change to XQ83 that will reset any of these spurious future nodes to NOW and stop this excess activity. A change is also made in XQ7 that will prevent these nodes being set incorrectly in the future.

There have also been some reports of problems [NOIS CLA-0397-22395] associated with the value of ZTCPU being reset as a result of a call to KICK^XQ7 during KIDS installations. This problem is corrected by NEWING the value ZTCPU before it is used in KICK^XQ7.

2.29.2 Routines

The following is a list of the routines included in this patch. The second line of each of these routines now looks like: <tab>;;8.0;KERNEL;**Patch List**;Jul 10, 1995

Routine Name	Patch List
XQ7	44,60
XQ83	60
XUSHSHP	60

Checksums

Routine Name	Checksum Before	Checksum After	Patch List
XQ7	2506259	2523046	44,60
XQ83	9490213	10007662	60
XUSHSHP	11148336	11486766	60

X Used CHECK^XTSUMBLD (or) ___ Used KIDS option

To test if the transport has been corrupted, you can use the "Verify Package Integrity" option. This option is under Utilities under the KIDS menu. It will compare the checksums in the build with the current checksums and list any that differ.

Routine Information:

Routine Name: XUSHSHP

Description of Changes:

Routine Checksum:

Routine Name: XQ7

Description of Changes:

Routine Checksum:

Routine Name: XQ83

Description of Changes:

Routine Checksum:

2.29.3 Installation Instructions

Please note the instructions specific to DSM sites.

1. Users ARE allowed to be on the system during the installation. However, since XQ83 is referenced during the log-on procedure, BRIEFLY INHIBITING LOGONS while the patch is installed is recommended
2. DO NOT place TaskMan in a WAIT/STOP state.
3. The routines in this patch are used in the background and will not normally affect journaling, compiled templates, or option usage.
4. DSM Sites: These routines are usually mapped so you will need to disable mapping for the affected routines.
5. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
6. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
7. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*60
8. DSM Sites: Rebuild your mapped set if necessary.

2.30 XU*8*71 SEQ 59: Y2K Fixes

Category: Routine

2.30.1 Descriptions

This patch includes routines that either needed change because of Y2K analysis or provide new date formats for others to use.

See the Web page to see the new formats available with FMTE^XLFD and HTE^XLFD.

(<http://www.vista.med.va.gov/softserv/infrastr.uct/kernel/y2k/index.html>)

Here is a sample, Note the NEW values for y. 5, 6, 7

\$\$FMTE(x[,y])

VA FileMan to External

Return conversion to an external format of a date in VA FileMan format.
arguments:

X VA FileMan date

Y [optional] Affects output as follows:

If \$D(y) then return standard VA FileMan format.

If +y = 1 then return standard VA FileMan format.

If +y = 2 then return MM/DD/YY@HH:MM:SS format.

If +y = 3 then return DD/MM/YY@HH:MM:SS format.

If +y = 4 then return YY/MM/DD@HH:MM:SS format.

If +y = 5 then return MM/DD/YYYYHH:MM:SS format.

If +y = 6 then return DD/MM/YYYY@HH:MM:SS format.

If +y = 7 then return YYYY/MM/DD@HH:MM:SS format.

If y contains "D" then Date only.

If y contains "F" then output date with leading blanks.

If y contains "P" then output "HH:MM:SS am/pm".

If y contains "M" then output "HH:MM" only.

If y contains "S" then force seconds in the output.

If y contains "Z" then output date with leading zeros.

W \$\$HTE^XLFD("54786,40523") --> Dec 31, 1990@11:15:23

W \$\$HTE^XLFD("54786,40523",2) --> 12/31/90@11:15:23

W \$\$FMTE^XLFD(2940629.105744,1) --> Jun 29, 1994@10:57:44

W \$\$FMTE^XLFD(2940629.105744,"2M") --> 6/29/94@10:57

W \$\$FMTE^XLFD(2940629.1057,"2S") --> 6/29/94@10:57:00

W \$\$FMTE^XLFD(2940629.1057,"4D") --> 94/6/29

W \$\$FMTE^XLFD(2940629.1057,"1P") --> Jun 29, 1994 10:57 am

W \$\$FMTE^XLFD(2940629.1057,"2P") --> 6/29/94 10:57 am
 W \$\$FMTE^XLFD(3000229.1105,"5") --> 2/29/2000@11:05
 W \$\$FMTE^XLFD(3000229.1105,"5ZP") --> 02/29/2000 11:05 am
 W \$\$FMTE^XLFD(3000229.1105,"5F") --> 2/29/2000@11:05
 W \$\$FMTE^XLFD(3000229.1105,"6Z") --> 29/02/2000@11:05
 W \$\$FMTE^XLFD(3000301.1105,"7") --> 2000/3/1@11:05

2.30.2 Routines

Checksum

Routine	Old	New	2nd Line
XLFD	2542000	4068329	**71**
XLFD1	1537932	2415851	**71**
XLFD2	4162412	3429255	**71**
XLFD3	7128144	6320544	**71**
XLFD4	1396443	1396443	**71**
XQDATE	1632193	1671306	**71**
XTER2	13615695	10464968	**71**
XUWORKDY	1331031	902683	**65,71**
ZOSVXD	7658715	7782508	**13,65,71**

Routine Name: XLFD
 Description of Changes:
 Routine Checksum:

Routine Name: XLFD1
 Description of Changes:
 Routine Checksum:

Routine Name: XLFD2
 Description of Changes:
 Routine Checksum:

Routine Name: XLFD3
 Description of Changes:
 Routine Checksum:

Routine Name: XLFD4
 Description of Changes:
 Routine Checksum:

Routine Name: XTER2

Description of Changes:
Routine Checksum:

Routine Name: ZOSVVXD
Description of Changes:
Routine Checksum:

Routine Name: XQDATE
Description of Changes:
Routine Checksum:

Routine Name: XUWORKDY
Description of Changes:
Routine Checksum:

2.30.3 Installation

1. DSM sites - Some of these routines may be mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peek time.
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*71'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. After installing this patch, DSM sites - you need to move one routines from your production account to each manager account:
 - OpenM Sites - you don't need to move anything, skip this step. ZOSVVXD
 - And in the manager account, (OpenM sites remain in VAH)

- DSM sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 71
8. DSM Sites, after patch has installed, rebuild your map set.

2.31 XU*8*77 SEQ 60: Fix Two Problems from Patch 71

Category: Patch for a Patch

2.31.1 Descriptions

NOIS	Routine	Description
BOI-0398-52635 BRX-0398-12325 HIN-0398-42171	XUWORKDY	During the fixing of XUWORKDY for Y2K issues the changes weren't tested with data that couldn't be calculated. Dates missing the month or day are invalid.
DAY-0398-42487 HOU-0398-72500	XTER2	During the fixing of XTER2 for Y2K issues, Testing didn't find that entering mm/dd/yy would not report the errors there were on that date.

2.31.2 Routines

Checksum

Routine	Old	New	2nd Line
XTER2	10464968	10468040	**71,77**
XUWORKDY	902683	908391	**65,71,77**

Routine Information:

Routine Name: XUWORKDY

Description of Changes:

Routine Checksum:

Routine Name: XTER2

Description of Changes:

Routine Checksum:

2.31.3 Installation

1. DSM sites - This routine may be mapped, so you will need to disable mapping for the effected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. (There is a very small possibility of some CLOBBER errors)
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*77'
6. DSM Sites, after patch has installed, rebuild your map set.

2.32 U*8*78 SEQ 61: ZISTCPS Routine for OpenM Sites

Category: Routine

2.32.1 Descriptions

This is an emergency patch to Kernel to provide the routine we asked the MailMan maintenance developer to call. The MailMan patch did not note the dependency with Kernel, this was our mistake.

NOIS	Description
ZISTCPS	This is a new routine that has the general TCP/IP server for OpenM in it. This function was moved to help standardize the call in %ZISTCP. The MailMan listener for OpenM was changed to reflect this change. The two patched got out of sync

2.32.2 Routines

Checksum

Routine	Old	New	2nd Line
ZISTCPS	NEW	1057561	**78**

Routine Information:

Routine Name: ZISTCPS

Description of Changes:

Routine Checksum

2.32.3 Installation

1. DSM sites - Don't need/use this routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any time.
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*78'
6. After installing this patch, OpenM Sites - You need to rename this routine. ZL ZISTCPS ZS %ZISTCPS

2.33 XU*8*67 SEQ #62: Protect Active and Persistent Tasks

Category: Routine

2.33.1 Description

This patch will add to the number of entries in the LOCK table. Depending on the number of jobs on a system node the Lock table may need to be increased.

NOIS	Routine	Description
MAR-1196-20400 CMO-1196-41389 WNY-1296-11772 MAD-0197-40149 ISH-0197-41376 HIN-0297-41185		Certain long running task (i.e. HL7 filers and LLP's) are getting removed from the system by the daily 'job' and 'TaskMan' clean-up routines even though they are still active. TaskMan has been modified to lock the ^%ZTSCH("TASK",tasknumber) node when starting a task and release the lock at completion. The clean-up routines will now attempt to lock this node to determine if the task is still active.

NOIS	Routine	Description
WNY-1296-11772, CMO-1196-41389, MAR-1196-20400 HIN- 0297-41185 ISH-0197- 41376	ZTMS3	Prevent TaskMan and Kernel clean-up programs from blowing away tasks that need to run for long periods of time. This requires that tasks only use incremental locks.
MAD-0197-40149	XUTMK XUTMRJD	Long time requests for tasks to restart them self's if they stop unexpectedly. Part of the problem has been to know when a task is running. The change to prevent clean-up programs from deleting the info about long running tasks puts into place the needed part so that TaskMan can check and restart tasks that need to be persistent.
SFC-1197-60720	ZTMS2 ZTMS3 ZTMS	TaskMan would not check the device file Out-of-Service field. This was caused by DT not being set at the time of the call to %ZIS.
	ZTLOAD	This routine has two new supported tags. \$\$PSET^%ZTLOAD to set a task as persistent. Returns 1 if the flag is set otherwise returns 0. PCLEAR^%ZTLOAD to clear the persistent flag for a task.

2.33.2 Routines

Checksum

Routine	Old	New	2nd Line
XQ1	11726256	11899807	**1,15,59,67**
XQ82	3479466	3479466	**59,67**
XUTMG19		3890099	**20,67**
XUTMK	6472549	6655042	**49,67**
XUTMRJD	6554859	6838266	**49,67**
XUTMTZ		7805273	**67**
ZTLOAD	1188558	1753065	**67**
ZTLOAD2	3203201	3185920	**1,67**
ZTLOAD3		3918318	**67**
ZTLOAD7	3885066	4104573	**67**
ZTM	7821111	8229940	**24,36,64,67**
ZTM0	5563711	5758864	**42,36,67**
ZTMS	5336388	5366119	**2,18,24,36,67**
ZTMS2	5283853	5301865	**2,18,23,36,67**
ZTMS3	9572340	10241859	**1,18,36,49,64,67**

Routine Information

Routine Name: XQ82

Routine Checksum:

Routine Name: XUTMK
Routine Checksum:

Routine Name: XUTMRJD
Routine Checksum:

Routine Name: ZTMS3
Routine Checksum:

Routine Name: XQ1
Routine Checksum:

Routine Name: XUTMG19
Routine Checksum:

Routine Name: XUTMTZ
Routine Checksum:

Routine Name: ZTLOAD
Routine Checksum:

Routine Name: ZTLOAD3
Routine Checksum:

Routine Name: ZTM
Routine Checksum:

Routine Name: ZTM0
Routine Checksum:

Routine Name: ZTMS
Routine Checksum:

Routine Name: ZTMS2
Routine Checksum:

Routine Name: ZTLOAD2
Routine Checksum:

Routine Name: ZTLOAD7
Routine Checksum:

2.33.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few user are on the system and the possibility of some CLOBER errors is acceptable then users can stay on the system.) Also place TASKMAN in a wait state.
5. Use 'D ^XPDKRN', and the INSTALL PACKAGE(S) option:
6. Install Package(s) 'XU*8.0*67'
7. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). MSM Sites - With Taskman not working you need to move the routine to other CPU's with the D ^XPDCPU
8. After installing this patch,
 - DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - OpenM Sites - you don't need to move anything, skip this step.
 - ZTLOAD
 - ZTLOAD2
 - ZTLOAD3
 - ZTLOAD7
 - ZTM
 - ZTM0
 - ZTMS
 - ZTMS2
 - ZTMS3
9. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System Patch number to load: 67
10. DSM Sites, after patch has installed, rebuild your map set.

11. Enable user's login.
12. Remove TASKMAN from the wait state.

2.34 XU*8*76 SEQ #63: KIDS Multiple Build Dependency

Category: Routine and Enhancement (Mandatory)

2.34.1 Description

This patch will allow KIDS to perform multiple builds if one build is dependant on another build as long as the builds are in logical sequence order. This patch was tested by the CPRS group on both test accounts and production accounts in the field.

Note: This patch must be queued during the install process.

This patch contains fixes that were identified by mail messages and E3R request.

2.34.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDIL1	9389594	9719931	**15,17,39,41,44,66,68,76**

Routine Information

Routine Name: XPDIL1

Routine Checksum:

2.34.3 Install Instructions

This patch can be installed with users on the system, but no other users should be using KIDS while you install this patch.

Since this patch is an update to KIDS, no other patches should be installed during the installation of this patch.

This patch must be QUEUED during the install process

1. These routines are usually mapped on systems that allow mapping.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*76
6. At the device prompt, make sure you queue the install: DEVICE: HOME//
QUEUE TO PRINT ON
7. AXP Sites, after patch has installed, rebuild your map set.

2.35 XU*8*83 SEQ #64: KIDS Patient Merge Modifications

Category: Routine

2.35.1 Description

KIDS routines were modified to ensure that the "AFFECTS RECORD MERGE"

2.35.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	List
XPDIP	9760615	10511020	**15,21,28,30,41,44,51,58,83**
XPDTC	13401215	13487930	**10,15,21,39,41,44,58,83**

Routine Information

Routine Name: XPDIP

Routine Checksum:

Routine Name: XPDTC

Routine Checksum:

2.35.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*83
6. At the device prompt, make sure you queue the install: DEVICE: HOME//
QUEUE TO PRINT ON
7. AXP Sites, after patch has installed, rebuild your map set.

2.36 XU*8*46 SEQ #65: Menu System Jumping Problems**Category:** Routine and Data Dictionary**2.36.1 Description****XU*8*46 - Jump Problems and XQUIT**

Associated patch XU*8*67 should be installed first.

This patch contains 22 routines, a new Kernel File (Menu System Quick Help), 13

Help Frames, and 3 Options; which fix a couple of problems with jumping. Under certain circumstances the Entry Action and Header would not be executed for the parent option of a secondary menu tree and the XUCOMMAND option which is the parent of the Common Options. In addition, the headers were occasionally executed before the entry action rather than after the entry action, the latter always being the correct sequence. [NOIS DAY-0994-40200, SPO-0597-50637]

This patch also synchronizes the single up-arrow jump ("^") and the double up-arrow or rubber-band jump ("^^") so that they both react the same when the variable XQUIT is set during the execution of an Entry Action. [NOIS DAY-0596-41019]. The end user will now see a default XQUIT message when an XQUIT is encountered and be returned to the menu from whence they came, instead of just being left hanging where the XQUIT was set. There are new tools for the application programmers to print their own message and process the XQUIT as they see fit.

The menu XUCOMMAND (System Commands) is treated more like a regular menu option and placed on the user stack in the event of a jump to, for instance, MailMan. When the user backs up with a series of returns they will see this menu which they would not have seen before. It may be somewhat startling to them at first.

The program ^XQDATE has been modified to correct a flaw that could make time stand still by not cleaning up after itself. [NOIS BRX-0498-10234, CMO-0498-40588].

Patch 46 also includes an enhancement to XQUIT processing. If XQUIT is encountered in a jump path the software will return the user to the option the user jumped from rather than stopping in mid-jump. It Also required the inclusion of a Screen-based Option Editor (OPED). Please see the option "Kernel New Features Help" for a complete look at these features.

This patch contains the routine XQP46INI, a post install routine that may be deleted after the install.

Note: Since this patch brings in the routines XQ and XQ1 it should not be installed using the KIDS Installation option, use the KIDS Kernel Installation program ^XPDKRN from programmers mode instead. DSM sites have reported a register dump after the installation of this patch and XU*8*67 when using the Menu System. No problems have been reported, however, when the installation was queued.

2.36.2 Routines

The second line of your routines should look like this:

```
;;8.0;KERNEL;*[Patch List]**;Jul 10, 1995
```

Check Sums (^XTSUMBLD) and Patch Lists

Routine	Before Checksum		After Checksum	
XQ	14578606	**9**	14125950	**9,46**
XQ1	11899807	**1,15,59,67**	11958439	**1,15,59,67,46**
XQ12	17600046	**9,20**	16945386	**9,20,46**
XQ33	9007179	**49,73**	9049114	**49,73,46**
XQ41	9107783	(no patches)	9203288	**46**
XQ71	13240707	(no patches)	13242248	**46**
XQ72	10277570	**47**	12812548	**47,46**
XQ72A	2392916	(no patches)	1102548	**46**
XQ73	6791337	(no patches)	9377665	**46**
XQ75	14473337	**47**	14455067	**47,46**
XQ8A	4565915	(no patches)	4621077	**46**
XQDATE	1671306	**71**	1673092	**71,46**
XQHLP	11192542	(no patches)	11275643	**46**
XQP46INI	New		297767	**46**
XQT	14370309	**20,47**	14403654	**20,47,46**
XQT1	10251041	**59**	10829937	**59,46**
XQT2	12231613	(no patches)	12277933	**46**
XQT3	12852830	(no patches)	12864808	**46**
XQT4	15421169	(no patches)	15441632	**46**
XQOPED	New		1020766	**46**
XQUIT	New		6834279	**46**
XQUTL	New		3002763	**46**

2.36.3 Installation

1. These routines may be mapped on systems that allow it so you may have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You need to use KIDS to install the transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
5. This patch must be installed from PROGRAMMER MODE by running the KERNEL Install Routine '^XPDKRN', using the 'INSTALL PACKAGE(S)' option, and specifying the package 'XU*8*46'.

6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. Rebuild your mapped set if necessary.

If users are allowed to remain on the system during installation errors may occur when the routines are loaded.

2.37 XU*8*84 SEQ #66: FIX ZISH*

Category: Routine

2.37.1 Description

NOIS	Routine	Description
ISB-0598-31461 WRJ-0498-11566 IOW-0598-41669 BEC-0598-21309	ZISHVXD	The use of the "default HFS directory" was not implemented correctly by the list function. This has been fix to work correctly. PWD will show the Default if that is un use.
SFC-0598-61569		Field 20 of file 8992.1 was misspelled as recipient.
FORUM MSG	ZUVXD	Using ZSLOT users could get there process set so that function keys would not work in ScreenMan or the Screen editor. This has been fixed by turning off escape processing at the start of ZU.

2.37.2 Routines

Checksum

Routine	Old	New	2nd Line
ZISHMSM	5685657	5978186	**24,36,49,65,84**
ZISHONT	5001907	5018937	**34,65,84**
ZISHVXD	6891389	7237979	**24,36,65,84**
ZUVXD	4856063	4645869	**13,24,84**

Routine Information

Routine Name: ZISHVXD
Routine Checksum:

Routine Name: ZISHONT
Routine Checksum:

Routine Name: ZISHMSM
 Routine Checksum:

Routine Name: ZUVXD
 Routine Checksum:

2.37.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. Return to Programmers prompt and use "D ^XPDKRN":
 - Install Package(s) 'XU*8.0*84'
6. DSM -- Rename ZUVXD: ZL ZUVXD ZS ZU
7. After installing this patch,
 - DSM/MSM sites - you need to move several routines from your production account to each manager account: ZISHVXD, ZISHONT, ZISHMSM
 - OpenM Sites - you don't need to move anything, skip this step.
8. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 84
9. DSM Sites, after patch has installed, rebuild your map set.

2.38 XU*8*74 SEQ #67: More Fixes from NOIS

Category: Routine

2.38.1 Description

NOIS	Description
DAY-0198-40011	If, as described in the NOIS, a person changes class, from 1 to 2 and then back to 1. The package allows the editing of the first entry, thus destroying the history information. Fixed with a change to the form. XU-PERSON CLASS and routine XUA4A72

2.38.2 Routines

Checksum

Routine	Old	New	2nd Line
XUA4A72	3400179	4441866	**27,49,74**

Routine Information

Routine Name: XUA4A72

Routine Checksum:

2.38.3 Installation

1. DSM sites - This routine may be mapped, so you will need to disable mapping for the effected routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*74'
 - DSM Sites, after patch has installed, rebuild your map set.

2.39 XU*8*75 SEQ #68: Do Not Send Alerts to Terminated Users

Category: Routine

2.39.1 Description

NOIS	Routine	Description
DAY-1097-42595	XQALSET	During testing of TIU it was found that alerts get sent to users that have been terminated. TIU suggested that a change to Alerts to not sent alerts to user that can't sign-on.
	XUSER	As part of the change to XQALSET a API was created ACTIVE^XUSER to check if the user can sign-on. It returns the following codes: "" No user record. 0 User can't sign-on. 0^DISUSER User can't sign-on because of DISUSER flag 0^TERMINATED^2980310 User terminated on date. 1^NEW A new user, could sign-on. 1^ACTIVE^2980310.09 A active user, last sign-on date

2.39.2 Routines

Checksum

Routine	Old	New	2nd Line
XQALSET	12680442	12975662	**1,6,65,75**
XUSER	699878	1279527	**75**

Routine Information

Routine Name: XQALSET

Routine Checksum:

Routine Name: XUSER

Routine Checksum:

2.39.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few user are on the system and the possibility of some CLOBBER errors is acceptable then users can stay on the system.)
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*75'
6. DSM Sites, after patch has installed, rebuild your map set and enable user logins.

2.40 XU*8*72 SEQ #69: Menu Delegation Key Allocation

Category: Routine

2.40.1 Description

This patch fixes problems with keys not getting allocated when a user gets assigned a delegated menu. The fix will get all keys within the delegated menu's structure and ask the user whether to install the keys or not. When removing the delegated menu, the fix will compare the keys needed by the delegated menu against those that are needed within the primary and secondary menu's and give the user a choice of removing all of the keys, none of the keys, or just the keys unique to the delegated menu (leaving the ones that the user might have a potential need for within their primary and secondary menus). In each instance, only keys that have been delegated to the user are the ones in question.

This problem has been reported and track in the following NOIS's:

- PAL-1097-60425 Delegate assigning menus with Keys....
- CLE-1096-40402 Option key not allocated in Delegates....
- SHE-0696-51206 Keys not being delegated....
- MAC-0895-60372 Delegating menus doesn't delegate keys....

2.40.2 Routines

Checksum

Routine	Old	New	2nd Line
XQSMD5	5584892	11250843	**72**
XQSMD6	(new)	1158918	**72**

Routine Information:

Routine Name: XQSMD5

Routine Checksum:

Routine Name: XQSMD6

Routine Checksum:

User Information:

2.40.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can be logged into the system. (If you install when few user are on the system and the possibility of some CLOBBER errors is acceptable then users can stay on the system.) TaskMan can remain in an active state.
5. From Programmers Prompt type 'D XPDKRN' Install Package(s) 'XU*8.0*72'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. DSM Sites, after patch has installed, rebuild your map set.

2.41 XU*8*80 SEQ #70: Protocol File Clean-Up

Category: Routine, Informational

2.41.1 Description

KIDS patch XU*8*68 fixed a bug when protocols were "Deleted at Site" resulting in broken (dangling) pointers within the Protocol file (#101). Patch XU*8*80 will give sites the ability to periodically search the Protocol file for broken pointers and execute a routine (ENASK^XQ3) to automatically remove them. However, patches that were installed prior to XU*8*68 that deleted protocols will need to be manually checked to ensure that a newly-created protocol did not take the place of the deleted one, covering up the broken pointer.

Note: The Protocol file has the same structure as the Option file (#19) whereas field #10, Item corresponds to field #10, Menu, in the Option file. Field #10, Item is a multiple and a pointer to the .01 field of the parent file.

Three patches that deleted protocols have been identified. The protocols deleted in these patches may have resulted in broken pointers. However, there is a possibility that a newly created protocol could reuse same IEN as the deleted one, and thus cover-up the broken pointer. Sites will need to manually ensure that a newly created protocol has not overwritten any of the broken ones. The three patches are identified below along with item's (field #10 multiple) that one can reasonably expect to find attached to the protocols. Figures 1-5 below the item listings are simulations where two broken pointers were created and one was covered up with a newly created protocol.

Patch	Date	Protocol (deleted)	Found on (file 101)
PX*1.0*14	2/98	PXCE Add/Edit Stop Code	PXCE Add/Edit Menu
DVBA*2.7*12	9/97	DVBA C Super Quit	DVBA C View Exams (menu)
		DVBA C View Exams (menu)	no parent known
		DVBA C View Jump (action)	DVBA C View Exams (menu)
DG*5.3*140	2/98	EDR BDC Capture Events	no parent known
		VAFED EDR Inpatient Capture	DGPM Movement Events
		VAFED EDR Outpatient Capture	SDAM Appointment Events

Note: The parent protocol of the other two deleted AMIE protocols was also deleted, DVBA C View Exams (menu). There should have been no negative impact from the AMIE patch. The EDR BDC Capture Events protocol was also determined not to be a child of any known protocols.

The following depicts items that may reasonably be found on the protocols identified above:

Items:

Found on:

- PXCE Add/Edit menu

- PXCE Add/Edit Display brief
- PXCE Add/Edit Display detail
- PXCE CPT add
- PXCE Delete V-file
- PXCE Edit V-file
- PXCE Encounter edit
- PXCE Exam add
- PXCE Health Factors add
- PXCE Immunization add
- PXCE Patient ED add
- PXCE POV add
- PXCE Provider add
- PXCE Quit
- PXCE Skin Test add
- PXCE Treatment add
- PXCE Add/Edit interview
- DGPM Movement Events
 - ORU Patient Movmt
 - ORU Autolist
 - DGPM Treating Specialty event
 - DGJ Incomplete event
 - DGOERR note
 - DG Means Test DOM
 - SD Appt status
 - IB Category C billing
 - SC PCMM Inpatient Activity
 - SC Assign PC Team on Discharge
 - GMRADGPM Mark chart
 - PSJ OR PAT ADT
 - DVB Admission HINQ
 - YS Patient movement
 - VSIT Patient Status
 - PSD PAT ADT
 - VAFH HL7 Inpatient capture
 - VAFC HL7 Inpatient capture
 - FHWMAS (not nationally released)
 - OR GUA DC Generic orders
 - OCX Order Check Patient move
- SDAM Appointment Events
 - ORU Patient Movmt
 - DG Means Test required
 - SDAM Late entry
 - IBACM OP link

- DVBA C&P Schd event
- PXX SDAM to V-files
- RMPR Sch event
- DGEN SD Display Current enrollment
- VAFH HL7 Outpatient capture
- VAFC HL7 Outpatient capture

Note: the "<==" represent comments made by the author and are not part of the captures.

Using FM, a protocol, ZZKYLE menu 1, is displayed with four protocols (items) attached. (Figure 2-1). Review the Protocols that are identified in Figure 2-1 as having a protocol deleted by a KIDS patch (i.e. PXCE Add/Edit menu, DGPM movement events, etc.).

```

NXT,KDE>D P^DI
VA FileMan 21.0
Select OPTION: 5  INQUIRE TO FILE ENTRIES
OUTPUT FROM WHAT FILE:  PROTOCOL//
Select PROTOCOL NAME:  ZZKYLE MENU 1          ItemText
ANOTHER ONE:
STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
Include COMPUTED fields:  (N/Y/R/B): NO//  - No record number (IEN), no
Computed Fields

NAME: ZZKYLE MENU 1          ITEM TEXT: ItemText
TYPE: menu                  CREATOR: DIMICELI,RON
PACKAGE: 283                COLUMN WIDTH: 26
MNEMONIC WIDTH: 4
ITEM: ZZKYLE ACTION 1      MNEMONIC: ZZ    <== 1st Item
SEQUENCE: 1
ITEM: ZZKYLE ACTION 2      <== 2nd Item
ITEM: ZZKYLE ACTION 3      <== 3rd Item
ITEM: ZZKYLE ACTION 4      <== 4th Item
HEADER: D SHOW^VALM        MENU PROMPT: Select ZZ Action:
TIMESTAMP: 57379,39444

```

Figure 2-1: ZZKYLE menu 1

Figure 2-2 displays two protocols that have been deleted, ZZKYLE Action 2 and ZZKYLE. Action 3, similar to the way a KIDS patch would have deleted them prior to XU*8*68. Broken pointers can be easily identified because a numeric will appear in the item field. The routine XQ3 (Figure 2-4) will clean these up. You must verify that the others actually should be connected to this protocol.

```

NXT,KDE>D P^DI
VA FileMan 21.0

Select OPTION: 5  INQUIRE TO FILE ENTRIES
OUTPUT FROM WHAT FILE:  PROTOCOL//
Select PROTOCOL NAME:  ZZKYLE MENU 1          ItemText
ANOTHER ONE:
STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
Include COMPUTED fields:  (N/Y/R/B): NO//  - No record number (IEN), no

```



```

Computed Fields

NAME: ZZKYLE MENU 1                ITEM TEXT: ItemText
TYPE: menu                        CREATOR: DIMICELI,RON
PACKAGE: 283                       COLUMN WIDTH: 26
MNEMONIC WIDTH: 4
ITEM: ZZKYLE ACTION 1             MNEMONIC: ZZ    <== 1st Item
SEQUENCE: 1
ITEM: 194                          <== Broken Pointer
ITEM: 195                          <== Broken Pointer
ITEM: ZZKYLE ACTION 4             <== 4th Item
HEADER: D SHOW^VALM              MENU PROMPT: Select ZZ Action:
TIMESTAMP: 57379,39444

```

Figure 2-2: ZZKYLE Action 2 and ZZKYLE

In Figure 2-3 a new protocol was created, ZZJACK. However, the new protocol was created in IEN 194, covering up the previous broken pointer. In the above figure (Figure 3), it was verify that the 1st item, ZZKYLE Action 1, should be attached to this protocol. The 2nd item, ZZJACK, is discovered to belong to a different protocol entry and should be removed from this entry. Use FM to manually remove it from the multiple attached to this protocol (shown in figure 5). The 3rd item is broken and XQ3 will clean it out (shown in figure 4). The 4th item is verified as valid.

```

NXT,KDE>D P^DI
VA FileMan 21.0
Select OPTION: 5  INQUIRE TO FILE ENTRIES
  OUTPUT FROM WHAT FILE: PROTOCOL//
  Select PROTOCOL NAME: ZZKYLE MENU 1      ItemText
  ANOTHER ONE:
  STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
  Include COMPUTED fields:  (N/Y/R/B): NO//  - No record number (IEN), no Computed
Fields
NAME: ZZKYLE MENU 1                ITEM TEXT: ItemText
TYPE: menu                        CREATOR: DIMICELI,RON
PACKAGE: 283                       COLUMN WIDTH: 26
MNEMONIC WIDTH: 4
ITEM: ZZKYLE ACTION 1             MNEMONIC: ZZ    <== 1st Item
SEQUENCE: 1
ITEM: ZZJACK                       <== 2nd Item (Bogus)
ITEM: 195                          <== Broken Pointer
ITEM: ZZKYLE ACTION 4             <== 4th Item
HEADER: D SHOW^VALM              MENU PROMPT: Select ZZ Action:
TIMESTAMP: 57379,3944

```

Figure 2-3: ZZJACK

In Figure 2-4: Execute ENASK^XQ3 setting "%=2" from programmers mode.

```

NXT,KDE>S %=2 D ENASK^XQ3
Do you want to remove any 'Dangling Pointers' from your PROTOCOL File?  Y// Y
PLEASE WAIT while I check this out . . .

Option ZZKYLE MENU 1 points to missing option 195
Your PROTOCOL File is OK now (1 pointer fixed).

```

```

NXT,KDE>D P^DI

VA FileMan 21.0

Select OPTION: 5  INQUIRE TO FILE ENTRIES
OUTPUT FROM WHAT FILE: PROTOCOL//
Select PROTOCOL NAME:  ZZKYLE MENU 1          ItemText
ANOTHER ONE:
STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
Include COMPUTED fields:  (N/Y/R/B): NO//  - No record number (IEN), no
Computed Fields
NAME: ZZKYLE MENU 1          ITEM TEXT: ItemText
  TYPE: menu                CREATOR: DIMICELI,RON
  PACKAGE: 283              COLUMN WIDTH: 26
  MNEMONIC WIDTH: 4
ITEM: ZZKYLE ACTION 1        MNEMONIC: ZZ    <== 1st Item
  SEQUENCE: 1
ITEM: ZZJACK                  <== 2nd Item (Bogus)
ITEM: ZZKYLE ACTION 4        <== 3rd Item (was 4th)
  HEADER: D SHOW^VALM       MENU PROMPT: Select ZZ Action:
  TIMESTAMP: 57379,39444

```

Figure 2-4: Executing ENASK^XQ3 setting "%=2" from programmers mode.

Use FM to remove the bogus protocol, ZZJACK (Figure 2-5).

```

NXT,KDE>D P^DI

VA FileMan 21.0
Select OPTION: 1  ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: PROTOCOL//
EDIT WHICH FIELD: ALL// 10  ITEM    (multiple)
  EDIT WHICH ITEM SUB-FIELD: ALL// .01  ITEM
  THEN EDIT ITEM SUB-FIELD:
THEN EDIT FIELD:

Select PROTOCOL NAME: ZZKYLE MENU 1          ItemText
Select ITEM: ZZKYLE ACTION 4// ZZJACK        BOGUS PROTOCOL ENTRY
  ...OK? Yes//  (Yes)
ITEM: ZZJACK// @
  SURE YOU WANT TO DELETE THE ENTIRE ITEM? Y  (Yes)

Select ITEM:

Select PROTOCOL NAME:
Select OPTION: 5  INQUIRE TO FILE ENTRIES

OUTPUT FROM WHAT FILE: PROTOCOL//
Select PROTOCOL NAME:  ZZKYLE MENU 1          ItemText
ANOTHER ONE:
STANDARD CAPTIONED OUTPUT? Yes//  (Yes)
Include COMPUTED fields:  (N/Y/R/B): NO//  - No record number (IEN), no
Computed Fields

NAME: ZZKYLE MENU 1          ITEM TEXT: ItemText
  TYPE: menu                CREATOR: DIMICELI,RON
  PACKAGE: 283              COLUMN WIDTH: 26
  MNEMONIC WIDTH: 4
ITEM: ZZKYLE ACTION 1        MNEMONIC: ZZ    <== 1st Item
  SEQUENCE: 1

```

ITEM: ZZKYLE ACTION 4	<== 2nd Item (Was 4th)
HEADER: D SHOW^VALM	MENU PROMPT: Select ZZ Action:
TIMESTAMP: 57455,50320	

Figure 2-5: Using FM to remove the bogus protocol, ZZJACK

These problems have been reported in the following NOISs:

- GNH-0498-40260
- FAV-0398-71664
- LOU-0398-41409
- PHI-0298-21787

2.41.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]*;Jul 10, 1995
```

Before After Patch

Routine	Checksum	Checksum	List
XQ3	6117796	8192492	**80**

Routine Information:

Routine Name: XQ3

Routine Checksum:

2.41.3 Installation

1. These routines are usually mapped on systems that allow mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and type 'D XPKRN': INSTALL NAME:
XU*8.0*80
 7. AXP Sites, after patch has installed, rebuild your map set.

2.42 XU*8*81 SEQ #71: KIDS Menu Rebuilding

Category: Routine

2.42.1 Description

In the past, users have experienced security problems when KIDS added options. Users were able to jump to options and then back out into options that they normally didn't have access to. The problem would continue until the site rebuilt its menu trees (generally a nightly job). KIDS routines have been patched to give the user an option to rebuild the menus immediately if the build is executed from the terminal. If the build is queued or sent to a printer, the menu rebuild will be automatic. Menu rebuilds only occur when an option has been added via the build. The MenuMan routines have been patched to allow for entry from KIDS. KIDS error trapping has been modified to wait until the completion of the menu rebuild before resetting variables.

Side Effects: When rebuilding the menu's while users remain on the system, users will not be able to jump (^OPTION) into menus that are currently being rebuilt (i.e. if a user tries to jump to an IFCAP option while the IFCAP menu is getting rebuilt they will get a "??". If they wait 10 seconds (approximate time it takes to rebuild IFCAP menu) and try again, everything should be normal). A better process for rebuilding menus has been identified and work will begin shortly to alleviate this side effect.

On a test system with an option file with 8,151 entries it took approximately 15 minutes to rebuild menus, therefore, it is suggested that when installing multiple builds, you may want to wait until the last one that adds a new option before rebuilding menus.

2.42.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDID	2414499	2417853	**81**
XPDIJ	10435806	11185622	**2,21,28,41,44,68,81**
XPDUTL	2641528	2677326	**21,28,39,81**
XQ8	12848331	12888022	**81**
XQ81	15669203	16727947	**81**

Routine Information:

Routine Name: XPDIJ

Routine Checksum:

Routine Name: XQ8

Routine Checksum:

Routine Name: XQ81

Routine Checksum:

Routine Name: XPDID

Routine Checksum:

Routine Name: XPDUTL

Routine Checksum:

2.42.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use 'D ^XPDKRN': Install Package(s) INSTALL NAME: XU*8.0*81

7. AXP Sites, after patch has installed, rebuild your map set.

2.43 XU*8*43 SEQ #72: CIRN Institution File Update

Category: Routine, Data Dictionary

2.43.1 Description

This patch is in support of CIRN. It will add fields to the Institution file, an entry to the Facility Type file, and add new Institution file associations.

Note: It will add all 22 VISN's in the format 'VISN xx' and build the associations for each station in that VISN.

There is a new form option; EVE:OPERATIONS:KERNEL:INSTITUTION to edit the Institution file.

Includes a routine with several APIs for the CIRN developers to use.

2.43.2 Supported References

2.43.2.1 PARENT^XUAF4 (array, station, association)

This is for a specified institution which is the parent for this association type.

Input Variables

Array - As input, it is the \$NAME reference for the Array name you want results back in. (This needs to be in your namespace)

Station - The lookup value - either IEN, station number, station name. If IEN it will need to have the ` in front of it.

Association - The type of association from the Institution Association Types file. (in CIRN's case it is = VISN)

Output Variables

Array("p",ien)=station name ^ station number

Note: Institution can only have one parent per association.

2.43.2.2 SIBLING^XUAF4 (array, child, association)

This is for all sibling institutions of a given institution of a given association.

Input Variables

Array - As input it is the \$NAME reference for the Array name you want results back in. (This needs to be in your namespace)

Child - The lookup value - either IEN, station number, station name. If IEN it will need to have the ` in front of it.

Association - The type of association from the Institution Association Types file. (in CIRN's case it is = VISN)

Output Variable

Array("p",pien,"c",cien)=station name ^ station number

Note: Institution can only have one parent per association.

2.43.2.3 CHILDREN^XUAF4 (array, parent, association)

This is for a specified parent return a list of all child institutions for a given association.

Input Variables

Array - As input it is the \$NAME reference for the Array name you want results back in. (This needs to be in your namespace)

Parent - The lookup value either IEN, station number, station name. If IEN it will need to have the ` in front of it.

Association - The type of association from the Institution Association Types file. (in CIRN's case it is = VISN)

Output Variable

Array ("c" , ien)=station name ^ station number

2.43.2.4 NNT^XUAF4(ien)

This will return the station name ^ station number ^ station type IEN - The pointer value into file 4.

2.43.2.5 CIRN^XUAF4 (inst [,value])

This function returns the value of the CIRN enabled field from the institution file.

Input

Inst - The pointer value (IEN) into file 4.

Value - (optional) Restricted to use by CIRN. This allows the setting of the field to a new value (Yes, No or @ to delete)

Output

Yes, No or the empty string

2.43.3 Routines

Checksum

Routine	Old	New	Second Line
XU8P43P		1825656	**43**
XUAF4		1190987	**43**

Routine Name: XUAF4

Routine Checksum:

Routine Name: XU8P43P

2.43.4 Installation

1. DSM sites - New routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*43'

2.44 XU*8*90 SEQ #73: %ZOSVK* Routines Needed for RUM and SAGG

Category: Routine

2.44.1 Description

This patch is being released by Capacity Management (CM) in anticipation of the national release of the Resource Usage Monitor (RUM) Version 1.0 and Statistical Analysis of Global Growth (SAGG) Version 1.8 software packages.

This patch will not affect the current versions of the RUM and SAGG software that is running at the sites. Therefore, all DSM, MSM and OpenM-NT sites are instructed to install this patch. Test sites which had a pre-release of SAGG v 1.8 should also install this patch.

This patch, in conjunction with the future release of SAGG v 1.8, will support the collection of global growth data from the following operating system platforms: DSM, MSM and OpenM-NT.

This patch distribution will be adding new %ZOSV* routines to the system-specific manager routine set. The accompanying installation instructions will guide you in adding these routines to your system.

This distribution also contains the following two routines within the new KMP* namespace:

- **KMPENV** An environment check routine which determines which system-specific collection routines should be installed. The system variable ^%ZOSF("OS") will be used to determine the type of system on which this distribution is running.
- **KMPLOAD** A loader routine that will be used to rename the ZOSVK* routines to %ZOSVK*.

Capacity Management (CM) has been assigned the KMP* namespace for routines. Both of these routines are only necessary for the installation of this distribution and can be deleted after successful completion of this patch.

2.44.2 Routine Information

Routine Name: KMPENV

Routine Checksum: 379321

Routine Name: KMPLOAD

Routine Checksum: 1790080

Routine Name: ZOSVKSME

Routine Checksum: 4496261

Routine Name: ZOSVKSMS

Routine Checksum: 2730370

Routine Name: ZOSVKSOE

Routine Checksum: 6067956

Routine Name: ZOSVKSOS
Routine Checksum: 14826279
Routine Name: ZOSVKSVE
Routine Checksum: 9688078
Routine Name: ZOSVKSVS
Routine Checksum: 4925185
Routine Name: ZOSVKRM
Routine Checksum: 186974
Routine Name: ZOSVKRO
Routine Checksum: 186974
Routine Name: ZOSVKRV
Routine Checksum: 5026320

2.44.3 Installation

The installation of this patch does not affect any options. Therefore, this installation can be performed at any time of the day with minimal disruption to users. Provided the information that is listed immediately below does NOT apply to your site's configuration, installation should not take longer than 10-15 minutes.

Note: If you are an 'OpenM-NT' site, review the 'NOTE' section in Step 7 to determine if additional preparation work is necessary.

1. If you are either a 'DSM for OpenVMS' or 'MSM-DOS' site, you will not need to review your mapped routine sets since these new routines are not presently mapped.
2. Load the patch distribution onto your system by following these instructions:
3. Enter 'X' at the 'Select MESSAGE Action: IGNORE//' (or DELETE//) mail prompt and select the 'INSTALL/CHECK MESSAGE' option.
4. From the 'Kernel Installation & Distribution System' (KIDS) menu, select the 'Installation' menu.
5. You may now elect to use the following options: When prompted for the INSTALL NAME, enter XU*8.0*90
 - a. Backup a Transport Global - this option will create a backup message of any routines exported with this release. It will NOT backup any other changes such as DDs or templates.
 - b. Compare Transport Global to Current System - this option will allow you to view all changes that will be made when the release is installed. It compares all components of the release (routines, DDs, templates, etc.).

- c. Verify Checksums in Transport Global - this option will allow you to ensure the integrity of the routines that are in the transport global.
6. Use the 'Install Package(s)' option and select the package XU*8.0*90.
7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', you can respond with NO.
8. If you are either a 'DSM for OpenVMS' or 'MSM-DOS' site, after successful completion of the installation, move and restore the KMPLOAD and ZOSVK* routines to the MGR UCI(s) with the ^%RS and ^%RR system routines.

If you are a 'MSM-DOS' site, you must also move these routines to all MGR UCIs on every CPU, such as, compute, print, file and shadow servers.

Note: If you are a 'OpenM-NT' site, you must verify that the routine mapping configuration on each of your NT system(s) contains %ZO* or, at least, %ZOSV*.

You MUST review the mapping configuration on ALL of your NT-VISTA Network configuration files (i.e., VANETA.DEF and VANETB.DEF).

If needed, you will also need to modify ALL of your NT-VISTA Network configuration files (i.e., VANETA.DEF and VANETB.DEF).

Use the following instructions to complete this task: On the 'Open M NextGen Thin Client' buttons, click on the 'Configure Open M' (i.e., Wizard) button.

On the top menu line of the 'Open M Configurations' window:

- a. Select File
- b. Edit Network Configuration...
- c. On the top menu line of the 'Open M - Namespace/Network Configuration' window:
- d. Select File
- e. Open Configuration [Remote]...
- f. A 'Choose Connection' window opens:
- g. Choose the appropriate 'Connection' to your NT system
- h. Click the 'OK' button
- i. Select the correct system from the 'File Name' box
- j. *** You will need to review ALL of your VISTA configurations ***
- k. Click the 'OK' button
- l. Click on the 'Routine Mapping' radial button -> o
- m. Review the entries and ensure that the following is present:

Routines	Type	Destination Location
%ZO*	ALL	ROU

(or, at least, %ZOSV*)

- n. If the above is present, continue to Step 8.
- o. However, if the above is NOT present, click the 'Insert Mapping' button and add %ZO* to the routine mapping list.
- p. Then, on the top menu line of the 'Open M Namespace/Network
- q. Configuration' window:
- r. Select File
- s. Save Configuration
- t. Restart OpenM after making this change on ALL VISTA configurations of the OpenM-NT cluster.
- u. Review ALL of your NT-VISTA configurations and make the
- v. appropriate modifications, if necessary.
- w. After restarting your OpenM systems, you will log into the VAH UCI to complete the next step.
- x. All sites must run the KMPLOAD routine in order to rename the system specific collection routines to the %ZOSVK-namespace.

Note: If you are a 'DSM for OpenVMS' site, you must have performed Step 7 and be logged into the MGR UCI in order to complete this step as shown below.

Note: If you are a 'MSM-DOS' site, you must have performed Step 7 and be logged into the MGR UCI. You must run this routine on all MGR UCIs on every CPU, such as, compute, print, file and shadow servers as shown below.

Note: If you are an 'OpenM-NT' site, you must have verified the routine mapping for every node configuration as outlined in Step 7. You must be logged into the VAH UCI in order to complete this step as shown below.

Now, once logged into the appropriate UCI as defined above for your site, run the KMPLOAD routine.

> D ^KMPLOAD

Loading ZOSVKRx Saved as %ZOSVKR

Loading ZOSVKSxE Saved as %ZOSVKSE

Loading ZOSVKSxS Saved as %ZOSVKSS

Finished

Note: The above listing of routines is only shown as an example. The listing that you will obtain will vary depending on your system configuration.

1. The KMP* and %ZOSVK* namespaced routines are NOT recommended to be mapped.

2.45 XU*8*69 SEQ #74: ZIS NOIS fixes

Category: Routine, Data Dictionary

2.45.1 Description

Because the %ZIS global is a shared global between many accounts this patch needs to be installed in each account that access to the %ZIS global at the same time.

Note: Read below about changes in how the MARGIN and PAGE LENGTH fields in the device file have changed.

NOIS	Routine	Description
	ZISUTL	Errors at Lake City/ Gainesville (a CIRN site) when using the Direct Connect and a printer had been selected but not Opened and the XCSA routine made use of the USE^%ZISUTL call to restore IO variables.
TAM-0298-31594	ZISUTL	Error at Tampa when saved device in Direct Connect had a IO="". Fixed by not saving device
MAN-0997-11116 STC-0997-40029	ZIS4ONT	Missing lines in spooler output.
BRX-0496-11600	ZIS1	If a job is queued to a device name that isn't defined you get a UNDEF error at SETVAR^%ZIS1. This has been fixed.
	ZISTCP	Trapping CLOSE errors without clearing \$ECODE caused problems. Move the OpenM server code to ZISTCPS so the listen tag will work as a single thread server under all OS's. This causes a change to mail-man routine XMRONT, part of patch XM*7.1*28.
AIM-1097-N1741	ZIS4* ZIS3	When opening a slave device \$X and \$Y didn't get set to zero.

NOIS	Routine	Description
E3R 10153	ZIS2	If a device has a Access Prohibited time the range was not displayed.
ISD-0197-71937	ZISS ZISS1 ZISS2 ZISP	Getting some Execute fields with a \$P when the complete node is needed.
WPB-0897-31818	ZISPL	Under LIST spool document it would only show the HOME device as having printed anything. This was because the File was updated before the device was asked.
BRK-1197-11008		The Spool data file wasn't getting cleaned up when the Spooler purge routine ran.
CLA-0498-22781	ZIS6	Routine %ZIS6 was setting the wrong global for the resource slot sub-file zero node. This has been fixed, The post init will clean-up the ^%ZIS(3.54,n,1,0) nodes. The TRIGGER X-ref on the \$I field of the device file was forcing new entries into the resource file. This has been fixed and the extra entries will be removed in the post init.

With this Kernel patch we have deleted fields *FORM FEED, *BACK SPACE from the device file. Removed the asterik from fields *MARGIN WIDTH, *PAGE LENGTH in the device file while changing the way they work.

First, the X-ref that stuffs these fields when the SUBTYPE field is edited will be removed so that the Margin Width and Page Length fields can act as overrides to the Terminal Type file fields.

This way if the terminal type file is edited all devices that point to this entry will get the new values right away, without having to re-index the subtype field of the device file.

If a particular device has the same characteristics as others of the same type but has a different paper size, a new terminal type will not be needed.

2.45.2 Routine Information

Checksum

Routine	Old	New	2nd Line
XUDHRES	917964	1098608	**49,69**
XUINPCH	3950316	4506459	**20,36,49,63,65,69**
ZIS	9308978	9534282	**18,23,69**
ZIS1	10316454	10963783	**18,49,69**
ZIS2	10804239	10569129	**69**
ZIS3	6450084	5727193	**18,36,69**
ZIS4MSM	7202298	7301961	**23,36,49,59,69**
ZIS4ONT	8238234	7540912	**34,59,69**

Routine	Old	New	2nd Line
ZIS4VXD	8151150	7956394	**23,36,49,59,69**
ZIS5	7634324	7647180	**18,24,69**
ZIS6	9917028	9295013	**24,49,69**
ZISC	7980129	8004258	**24,36,49,69**
ZISP	1595683	1756861	**69**
ZISPL	12813725	14330151	**23,69**
ZISPL1	8550686	8439616	**23,36,69**
ZISPL2	4088281	4750042	**23,36,69**
ZISS	8559518	8580158	**69**
ZISS1	7994076	7921540	**69**
ZISS2	845268	846028	**69**
ZISTCP	2660587	2862626	**36,34,59,69**
ZISUTL	2111550	2112295	**18,24,34,69**
ZTMGRSET	12724965	13594462	**34,36,69**

Routine Name: XUINPCH

Routine Checksum:

Routine Name: ZIS

Routine Checksum:

Routine Name: ZIS1

Routine Checksum:

Routine Name: ZIS2

Routine Checksum:

Routine Name: ZIS3

Routine Checksum:

Routine Name: ZIS4MSM

Routine Checksum:

Routine Name: ZIS4ONT

Routine Checksum:

Routine Name: ZIS4VXD

Routine Checksum:

Routine Name: ZIS5

Routine Checksum:

Routine Name: ZIS6

Routine Checksum:

Routine Name: ZISC

Routine Checksum:

Routine Name: ZISP

Routine Checksum:

Routine Name: ZISPL

Routine Checksum:

Routine Name: ZISPL1

Routine Checksum:

Routine Name: ZISPL2

Routine Checksum:

Routine Name: ZISS
 Routine Checksum:
 Routine Name: ZISS1
 Routine Checksum:
 Routine Name: ZISS2
 Routine Checksum:
 Routine Name: ZISTCP
 Routine Checksum:
 Routine Name: ZISUTL
 Routine Checksum:
 Routine Name: ZTMGRSET
 Routine Checksum:
 Routine Name: XUDHRES

2.45.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few user are on the system and the possibility of some CLOBBER errors is acceptable then users can stay on the system.) Also, place TaskMan in a wait state.
5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*69'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. After installing this patch, DSM/MSM sites - you need to move several routines from your production account to each manager account:

OpenM Sites - you don't need to move anything, skip this step.

ZIS,ZIS1,ZIS2,ZIS3,ZIS5,ZIS6,ZISC

ZIS4MSM,ZIS4VXD,ZIS4ONT

ZISS,ZISS1,ZISS2,ZISP

ZISUTL

ZISTCP

ZTMGRSET

And in the manager account, (OpenM sites remain in VAH)

All sites:

DO RELOAD^ZTMGRSET

Select the System

Patch number to load: 69

8. MSM sites move these routines to the MGR accounts on other CPU's.
9. ALL sites move routine XUINPCH to all other accounts that share the %ZIS global and "D POST69^XUINPCH" to clean-up the DD for that account.
10. DSM Sites, after patch has installed, rebuild your map set.
11. Enable user's login. Remove TaskMan from WAIT State.

2.46 XU*8*88 SEQ #75: Dual TaskMan Restart

Category: Routine

2.46.1 Description

When attempting to start a TaskMan while a task was currently running the startup would hang. ZTM0 was modified to do a restart if a task is already running. This was reported in NOIS: BRX-0698-10148

2.46.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
::8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
ZTM0	5758864	5937824	**42,36,67,88**

2.46.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use D ^XPDKRN: Install Package(s) Install Name: XU*8.0*88
7. After installing this patch,
 - a. DSM and MSM Sites: Move the following routines from your production account to the manager account: ZTM0
 - b. All Sites: In the manager (DSM and MSM) or production (OpenM) account:
DO RELOAD^ZTMGRSET

Select the System

Patch number to load: 88
8. AXP Sites, after patch has installed, rebuild your map set.

2.47 XU*8*92 SEQ # 76: OERR Package Para KIDS Cleanup

Category: Routine

2.47.1 Description

KIDS routines have been modified to remove the special handling section used to export OERR Package Parameters Multiple because it was causing problems when a new version (v3.0) was being installed and users still needed to review results under a previous version. The standard Protocol export function can be used to achieve the desired result. This was problem was report by: HINES CIOFO

2.47.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDIP	10511020	9566536	**15,21,28,30,41,44,51,58,83,92**
XPDTC	13487930	12986860	**10,15,21,39,41,44,58,83,92**

Routine Information

Routine Name: XPDIP

Routine Checksum:

Routine Name: XPDTC

Routine Checksum:

2.47.3 Installation

This patch can be installed with users on the system, but no other users should be using KIDS while you install this patch.

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - a. Verify Checksums in Transport Global
 - b. Print Transport Global
 - c. Compare Transport Global to Current System
 - d. Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use D ^XPDKRN:

Install Package(s)

INSTALL NAME: XU*8.0*92

7. AXP Sites, after patch has installed, rebuild your map set.

2.48 XU*8*87 SEQ #77: Missing Fields for XQUIT Processing

Category: Data Dictionary

2.48.1 Description

This patch contains two new fields to the Option File XQUIT MESSAGE and XQUIT EXECUTABLE that were inadvertently left out of Patch XU*8*46. The documentation for using these fields is found in the option Kernel New Features.

This patch also contains a single routine that fixes a bug that went out with that patch. Dayton discovered that XQUIT processing did not work with queued options.

Frankly, it never occurred to me that XQUIT would be used in that manner. They were publishing a report that they did not want on holidays, so they set the XQUIT variable in the Entry Action if it was a holiday.

2.48.2 Routines

Checksums were obtained using CHECK^XTSUMBLD.

Routine	Before	After	Patch List
XQUIT	6834279	6972284	**46,87**

2.48.3 Installation Instructions

1. Users are allowed on the system, and this patch may be queued.
2. This routine is not usually mapped, so you shouldn't have to disable mapping.
3. Use the "Install/Check Message" option on the PackMan menu to load the package.
4. On the KIDS menu use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global (Optional)
 - Compare Transport Global to Current System
 - Backup transport Global
5. MSM sites answer 'YES' to the question: "Want to MOVE routines to other CPUs?" - AXP sites answer 'NO'.

6. Rebuild mapped set if necessary.

2.49 XU*8*79 SEQ #78: Error Screen Management Fixes

Category: Routine

2.49.1 Description

BRX-0498-11226, SBY-0498-30822

When using the remove an error screen you will get an error. Added a form to do the editing of Error Screens.

Comments about the counting of errors.

SCREEN^%ZTER was changed to count errors of "Don't Show" as well as the "Don't Record".

2.49.2 Routines

Checksum

Routine	Old	New	2nd Line
XUTMKE1	3519416	2055344	**63,79**
XUTMKE2	2696336	4239503	**63,79**
ZTER	19441177	19821674	**8,18,32,24,36,63,73,79**

Routine Information:

Routine Name: XUTMKE1

Routine Checksum:

Routine Name: XUTMKE2

Routine Checksum:

Routine Name: ZTER

Routine Checksum:

2.49.3 Installation

1. DSM sites - One of these routines are usually mapped, so you will need to disable mapping for the effected routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:

- Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
 5. On the KIDS menu, under the 'Installation' menu, use the following option: Use "D ^XPDKRN" then Install Package(s) 'XU*8.0*79'
 6. After installing this patch, DSM/MSM sites - you need to move one routines from your production account to each manager account:

OpenM Sites - you don't need to move anything, skip this step.

ZTER

And in the manager account, (OpenM sites remain in VAH)

All sites:

```
DO RELOAD^ZTMGRSET
Select the System
Patch number to load: 79
```

7. DSM Sites, after patch has installed, rebuild your map set.

2.50 XU*8*34 SEQ #79: KERNEL on OpenM-NT

Category: Routine

2.50.1 Description

For ALPHA/NT OpenM/Cache sites, these routines were included in the KRN_ONT_34.RTN file(s) that were used as part of the conversion process to OpenM/Cache. This file went through several revisions during the course of the project so depending on when a site converted, the old checksums for these routines may vary from what this patch indicates. Available Jobs and Act Jobs adjusted to work with both OpenM (NextGen Build52e) and Cache.

This patch is only needed by OpenM sites, Installing at other sites will not cause any problems.

2.50.2 Routines

Checksums

Routine	Old	New	2nd Line
XGKB	3707191	3850098	**34**
XUCIONT		2479520	**34**
ZISFONT		4576199	**34**
ZISHONT	5001907	5018937	**34,65,84**
ZOSFONT		6905729	**34**
ZOSVONT		5179039	**34**
ZTMGRSET	13364303	13594462	**34,36,69**
ZUONT	1897334	1794899	**34**

Routine Information:

Routine Name: ZOSFONT

Routine Checksum:

Routine Name: ZOSVONT

Routine Checksum:

Routine Name: ZUONT

Routine Checksum:

Routine Name: XUCIONT

Routine Checksum:

Routine Name: XGKB

Routine Checksum:

Routine Name: ZISFONT

Routine Checksum:

Routine Name: ZISHONT

Routine Checksum:

Routine Name: ZTMGRSET

2.50.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
3. Users can remain on the system. This patch can be loaded any non-peek time. This patch can NOT be queued.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global

- Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s) 'XU*8.0*34'
5. *** OpenM sites ONLY *** After installing this patch.
- a. You need to rename ZUONT to ZU.
 - b. DO RELOAD^ZTMGRSET

Select the System

Patch number to load: 34

2.51 XU*8*85 SEQ #80: KIDS Fixes for Exporting HL7 Protocols

Category: Routine

2.51.1 Description

KIDS routines have been modified so that, when exporting HL7 TCP/IP Protocols, all information is sent except the start-up node data, field 400.06.

2.51.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL; **[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDIA1	9226085	9001554	**2,44,51,58,68,85**
XPDIL1	9719931	9803540	**15,17,39,41,44,66,68,76,85**
XPDT	18817747	19140903	**2,10,28,41,44,51,58,66,68,85**
XPDTA1	4948004	5005398	**44,68,85**

Routine Information:

Routine Name: XPDTA1

Routine Checksum:

Routine Name: XPDIA1

Routine Checksum:

Routine Name: XPDT

Routine Checksum:

Routine Name: XPDIL1

Routine Checksum:

2.51.3 Installation

This patch can be installed with users on the system, but no other users should be using KIDS while you install this patch.

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use `D ^XPDKRN: Install Package(s) Install Name: XU*8.0*85`

AXP Sites, after patch has installed, rebuild your map set.

2.52 XU*8*95 SEQ #81: KIDS Menu Rebuild Process

Category: Routine

2.52.1 Description

The question to rebuild menus at the end of the install if an option has been added was moved to the 'pre-installation questions' section at the beginning of the install. The menu rebuild will no longer be automatic if the install is queued or sent to a device other than your terminal. The rebuild process will solely rely upon your response.

Note: Any build that was built prior to XU*8*95 will not contain the needed logic to ask the 'rebuild menu question'. If an option is added via KIDS the site will have to manually execute the rebuild via the menu options or wait until the nightly batch.

2.52.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDH	3370027	4137606	**58,95**
XPDI1	6640407	6953243	**58,61,95**
XPDIJ	11185622	10800990	**2,21,28,41,44,68,81,95**
XPDIQ	7519323	7824317	**21,28,58,61,95**
XPDTC	12986860	13310019	**10,15,21,39,41,44,58,83,92,95**

Routine Information:

Routine Name: XPDH
Routine Checksum:

Routine Name: XPDI1
Routine Checksum:

Routine Name: XPDIJ
Routine Checksum:

Routine Name: XPDIQ
Routine Checksum:

Routine Name: XPDTC
Routine Checksum:

2.52.3 Installation

This patch can be installed with users on the system, but no other users should be using KIDS while you install this patch. Since this patch is an update to KIDS, no other patches should be installed during the installation of this patch.

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use 'D ^XPDKRN': Install Package(s) INSTALL NAME: XU*8.0*95
7. AXP Sites, after patch has installed, rebuild your map set.

2.53 XU*8*97 SEQ #82: Provide File 200 API to DSS

Category: Routine

2.53.1 Description

NOIS	Routine	Description
DBIA	XUSER	New file 200 API for DSS. The call is S X=\$\$DIV4^XUSER (.ZZ[,duz]) Input: The first parameter is a local variable that is passed by reference. The second is optional a IEN to the New Person file. If not passed it defaults to the current DUZ. Out: Returns a 1 if the user has a Division entry in the New Person file, else returns 0. If it returns a 1 then the first parameter is an array of IEN's for file 4 that have been assigned to the user.

2.53.2 Routines

Checksums

Routine	Before Checksum	After Checksum	Patch List
XUSER	1279527	1441396	**75,97**

Routine Information:

Routine Name: XUSER

Routine Checksum:

2.53.3 Installation

1. DSM sites - This routine may be mapped, if so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Use "D ^XPDKRN" then ***
 - Install Package(s) 'XU*8.0*97'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.54 XU*8*89 SEQ #83: Menu Rebuild Problem

Category: Routine

2.54.1 Description

This patch contains 1 routine modified to correct a problem encountered by the menu rebuild system. Under certain circumstances the Common Options in the menu XUCOMMAND were not being time-stamped properly, causing this menu to be rebuilt frequently and unnecessarily. This could result in an <UNDEFINED> error while the menu was being rebuilt.

2.54.2 Routines

The second line of this routine should look like this:

```
;8.0;KERNEL;**81,89**;Jul 10, 1995
```

Checksums were calculated by CHECK^XTSUMBLD

Checksum

Routine	Before Checksum	After Checksum	Patch List
XQ8	12888022	11887347	**81,89**

Routine Information:

No routine information included

2.54.3 Installation Instructions

1. Users are allowed on the system, and this patch may be queued.
2. This routine is not usually mapped, so you shouldn't have to disable mapping.
3. Use the "Install/Check Message" option on the PackMan menu to load the package.
4. On the KIDS menu use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global (Optional)
 - Compare Transport Global to Current System
 - Backup Transport Global
 - Install package(s)
 - INSTALL NAME: XU*8.0*89
5. MSM sites answer 'YES' to the question: "Want to MOVE routines to other CPUs?" - AXP sites answer 'NO'.
6. Rebuild mapped set if necessary.

2.55 XU*8*86 SEQ #84: Give TaskMan Listings YYYY Dates - Y2K

Associated patches:

(v)XU*8*20	must be installed BEFORE `XU*8*86'
------------	------------------------------------

(v)XU*8*36	must be installed BEFORE `XU*8*86'
(v)XU*8*79	must be installed BEFORE `XU*8*86'

Category: Routine

2.55.1 Description

NOIS	Routine	Description
WPB-0598-31519	XUTM*	When listing tasks, a 2 digit year was used in the display. There shouldn't be any confusion with a task scheduled for 2000 being mistaken for 1900. This NOIS pointed out that 2097 could be mistaken for 1997 and make user wonder why the task was so late. Reports now use 4 digit years.
BRX-0298-12277	XUTMRP	User would get an UNDEF if trying to re-point a device that was OUT-OF-SERVICE. Fixed by not checking the OOS field on the OLD device. Changed to allow longer \$!s in OpenM.
TAM-1098-31054	XUTMRP1	Was failing to clear a Lock on each task repointed.
MON-0798-50789 FAR-0798-40749	XLFD2	If a task had a requeue schedule of "1M", the time for rescheduling would be lost. Fixed to correctly bring forward the schedule time.
BRK-0998-11910 OKL-0998-71037 CIN- 0998-42052	ZTER XUTMKE	When checking for screened errors, only the first string in the list was checked. TaskMan error display updated to use the new screening list.

2.55.2 Routines

Checksums

Routine	Old	New	Second Line
XLFD2	3530137	3530137	**71,86**
XUTMKE	11733011	11960485	**86**
XUTMRP	15458022	15705216	**2,20,86**
XUTMRP1	6998776	7012212	**2,86**
XUTMTP	10672535	10473436	**20,86**
XUTMTR1	13285469	12285561	**86**
XUTMTR2	9481244	8489866	**86**
XUTMUSE2	13026855	13051739	**36,86**
ZTER	19821674	19873831	**8,18,32,24,36,63,73,79,86**

List of preceding patches: 2, 8, 18, 20, 24, 32, 36, 63, 71, 73, 79

Checksum's calculated by CHECK^XTSUMBLD

Routine Information:

Routine Name: XLFDT2

Routine Checksum:

Routine Name: XUTMKE

Routine Checksum:

Routine Name: XUTMRP

Routine Checksum:

Routine Name: XUTMTP

Routine Checksum:

Routine Name: XUTMTR1

Routine Checksum:

Routine Name: XUTMTR2

Routine Checksum:

Routine Name: XUTMUSE2

Routine Checksum:

Routine Name: ZTER

Routine Checksum:

Routine Name: XUTMRP1

Routine Checksum:

2.55.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system.

5. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'XU*8.0*86' No Options or Protocols need to be placed out-of-order. Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move one routine from your production account to each manager account: ZTER
7. And in the manager account, (OpenM sites remain in VAH)

All sites:

```
DO RELOAD^ZTMGRSET
Select the System
Patch number to load: 86
```

8. DSM Sites, after patch has installed, rebuild your map set.

2.56 XU*8*94 SEQ #85: Kernel Update for RUM

Category: Routine

2.56.1 Description

This patch is in support of the new Capacity Management namespace KMPR.

The Kernel routines will call ^%ZOSVKR through %ZOSV and the XQOR routines will call %ZOSVKR directly.

The %ZOSV routine has been modified to call the new %ZOSVKR routine. This should help protect not at the VA who use VistA.

The ZTMGRSET routine has been updated to save the new routine under the correct name.

The ZOSVKR* and ZOSVKS* are included unchanged at the request of the DBA.

These routines were introduced with patch XU*8*90. Patch XU*8*90 installed certain ZOSVKR* and ZOSVKS* routines based on your platform's operating system. Please do not be alarmed if you are notified prior to installing patch XU*8*94 that certain ZOSVKR* and ZOSVKS* routine do not exist in your account.

MWV-0398-21933 ZTMS3 Add to the after task cleanup IO("P"),IO("DOC") so they can't upset re-queuing of following tasks.

2.56.2 Routines

Routine	Old	New	Second Line
XQ	14125950	14125950	**9,46**
XQOR1	11515076	11260336	**48,56,94**
XQORO	13000044	11424424	**48,56,94**
XUTMG43	921517	844913	**18,65,94**
ZOSVKRM		186974	**90,94**
ZOSVKRO		186974	**90,94**
ZOSVKRV		5026320	**90,94**
ZOSVKSME		4496261	**90,94**
ZOSVKSMS		2730370	**90,94**
ZOSVKSOE		6067956	**90,94**
ZOSVKSOS		14826279	**90,94**
ZOSVKSVE		9688078	**90,94**
ZOSVKSVS		4925185	**90,94**
ZOSVMSM	11538678	10267389	**13,25,49,94**
ZOSVONT	5179039	5191213	**34,94**
ZOSVXD	7782508	5822652	**13,65,71,94**
ZTMGRSET	13594462	14184637	**34,36,69,94**
ZTMS	5366119	5281307	**2,18,24,36,67,94**
ZTMS3	10241859	10008753	**1,18,36,49,64,67,94**
ZUMSM	2252648	2427019	**13,42,49,94**
ZUONT	1794899	1969174	**34,94**
ZUVXD	4645869	4462372	**13,24,84,94**

List of preceding patches: 1, 2, 9, 13, 18, 24, 25, 34, 36, 42, 46, 48, 49, 56, 64, 65, 67, 69, 71, 84, and 90.

Checksum's calculated by CHECK^XTSUMBLD

Routine Information:

Routine Name: XQ
Routine Checksum:

Routine Name: XQOR1
Routine Checksum:

Routine Name: XQORO
Routine Checksum:

Routine Name: XUTMG43
Routine Checksum:

Routine Name: ZOSVMSM
Routine Checksum:

Routine Name: ZOSVONT
Routine Checksum:

Routine Name: ZOSVVXD
Routine Checksum:

Routine Name: ZTMS
Routine Checksum:

Routine Name: ZTMS3
Routine Checksum:

Routine Name: ZUMSM
Routine Checksum:

Routine Name: ZUONT
Routine Checksum:

Routine Name: ZUVXD
Routine Checksum:

Routine Name: ZTMGRSET
Routine Checksum:

Routine Name: ZOSVKRM
Routine Checksum:

Routine Name: ZOSVKRO
Routine Checksum:

Routine Name: ZOSVKRV
Routine Checksum:

Routine Name: ZOSVKSME
Routine Checksum:

Routine Name: ZOSVKSOE
Routine Checksum:

Routine Name: ZOSVKSVE
Routine Checksum:

Routine Name: ZOSVKSMS
Routine Checksum:

Routine Name: ZOSVKSOS
Routine Checksum:

Routine Name: ZOSVKSVS

Routine Checksum:

2.56.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.) Also place Taskman in a wait state, and stop submanagers.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*94'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch
 - DSM sites rename ZUVXD to ZU.
 - OpenM sites rename ZUONT to ZU.
 - MSM sites rename ZUMSM to ZU.
7. OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account:

ZTMGRSET
 ZTMS
 ZTMS3
 ZOSVMSM
 ZOSVONT
 ZOSVVXD
 ZOSVKRM
 ZOSVKRO
 ZOSVKRV
 ZOSVKSME
 ZOSVKSMS
 ZOSVKSOE
 ZOSVKSOS
 ZOSVKSVE
 ZOSVKSVS

And in the manager account, (OpenM sites remain in VAH) All sites:

- DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 94
8. DSM Sites, after patch has installed, rebuild your map set.
 9. Enable user's login. Remove TaskMan from the wait state.

2.57 XU*8*99 SEQ #86: Terminated User Screen

Category: Routine

2.57.1 Description

This patch will add a screen to the user selection process when delegating menus to ensure that a terminated user is not selected. This was reported in NOIS: CTX-0998-70547

2.57.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XQSMD5	11250843	11168499	**72,99**

Routine	Before Checksum	After Checksum	Patch List
XUSER	1441396	1616062	**75,97,99**

Routine Information

Routine Name: XQSMD5

Routine Checksum:

Routine Name: XUSER

Routine Checksum:

2.57.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use 'D ^XPDKRN':
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*99
7. AXP Sites, after patch has installed, rebuild your map set.

2.58 XU*8*82 SEQ #87: Broker to Clean-up TMP Globals

Associated patches:

(v)XU*8*28	install with patch	`XU*8*82'
------------	--------------------	-----------

(v)XU*8*70	install with patch	`XU*8*82'
------------	--------------------	-----------

Category: Routine

2.58.1 Description

NOIS Number	Routine	Description
ISL-0598-50691	XUSRB	When a GUI-Broker process exited the M system, it failed to clean-up the temp globals as roll and scroll M processes do. It was discovered that not all local Broker development was making the call to establish an application context. They were just adding the local RPC to the SIGN-ON context. This loophole has been fixed by having sign-on remove its context when completing the sign-on.
	XQCS XQSET	These two routines improve the interface between the Remote Procedure Call (RPC) Broker and the traditional Menu System. With this patch installed sites will be able to mark Broker-type options out-of-order, lock them with keys and reverse keys, and restrict the days and times during which they are allowed to run.

2.58.2 Routines

Checksums calculated by CHECK^XTSUMBLD

Checksums

Routine	Old	New	Second Line
XQCS	9069982	12754137	**15,28,82**
XQSET	11570399	11252847	**28,82**
XUSRB	5125201	5576613	**11,16,28,32,59,70,82**
XUSRB1	9903269	10103967	**28,82**

List of preceding patches: 11, 15, 16, 28, 32, 59, and 70.

Routine Information

Routine Name: XUSRB

Routine Checksum:

Routine Name: XUSRB1

Routine Checksum:

Routine Name: XQCS

Routine Checksum:

Routine Name: XQSET

Routine Checksum:

2.58.3 Installation

1. DSM sites - Some of these routines may be mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Stop the Broker server. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.)
7. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use 'D ^XPDKRN':
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: 'XU*8.0*82 '
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
8. DSM Sites, after patch has installed, rebuild your map set.
9. Restart the Broker server.

2.59 XU*8*102 SEQ #88: XUAUTODEACTIVATE Efficiency Improvement

Category: Routine

2.59.1 Description

\$TXT Created by MEIGHAN,MIKE J. at NXT.KERNEL.ISC-SF.VA.GOV (KIDS)

on WEDNESDAY, 10/21/98 at 14:58

There are no patches that need to be installed before this one.

This patch brings in a single routine, ^XUSTERM1. This routine is part of the set of routines that runs with the automatic clean-up option XUAUTODEACTIVATE. The fix was suggested by Warren Samuelson (NOIS: MIN-1196-40686). When cycling through the New Person File the old code looked for a termination date less than today and performed several functions based on the result of that comparison. Warren pointed out that by first checking to see if there was a Verify Code a lot of time and effort could be spared.

2.59.2 Routines

The second line of this routine should look like this:

```
;;8.0;KERNEL;**102**;Jul 10, 1995
```

Checksums were calculated by CHECK^XTSUMBLD

Routine	Before Checksum	After Checksum	Patch List
XUSTERM1	12365339	12539120	**102**

Routine Information

Routine Name: XUSTERM1

Checksum Name:

2.59.3 Installation Instructions

1. Users are allowed on the system, and this patch may be queued.
2. This routine is not usually mapped, so you shouldn't have to disable mapping.
3. Use the "Install/Check Message" option on the PackMan menu to load the package.
4. On the KIDS menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global (Optional)
 - Compare Transport Global to Current System
 - Backup Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*102

5. Rebuild mapped set if necessary.

2.60 XU*8*105 SEQ #89: Cleanup and Identification of Dangling Pointers with County Codes

Category: Routine

2.60.1 Description

Patch XU*8*105 is designed to identify and correct two data problems associated with the following files:

- Patient (File #2)
- Fee Basis Vendor (File #161.2)
- Person (File #16)
- HBHC Patient (File #631)

The two problems being addressed and corrected with this patch are described below:

1. Dangling pointers associated with the County Fields in the aforementioned files are identified and cleaned up. (set to null)
2. State and County entries that are currently null are identified and listed as exceptions. The exceptions are listed in the temporary global ^XTMP("XUXTMP") This is a new temporary global created by the patch. These exceptions are identified to provide a list of current state and county entry errors at each site. They will need to be addressed on a site-to-site basis.

These problems were discovered during installation of patch XU*DBA*3, which was an effort to cleanup some entries in the County and State codes in the State File. Once your site installs this patch, you must run the routine ^XUXCTY. This routine performs the identification and cleanup of these exceptions. When this routine has run to completion, the temporary global ^XTMP("XUXTMP") will exist at your site. This global contains the zero node of all records found that were either changed or that contain exceptions to be addressed.

The global looks as follows:

```

^XTMP("XUXTMP",0) = 2981106^2981030
^XTMP("XUXTMP",1) = PATIENT FILE RECORDS CLEANED
^XTMP("XUXTMP",2) = BLOW, JOE P.^M^ 2350303^E^6^6^ MEDICINE^
99^444556677^ This is testing classman Software^Daly
CITY^6^^53^2891117^^^1
^XTMP("XUXTMP",3)=SNERD,MORTIMER^M^2560505^E^2^^TRUCKER^4^2
34567890^^MADER
A^6^^53^2891117^^^1

```

```

^XTMP("XUXTMP",4) =
^XTMP("XUXTMP",5) = Person file records cleaned
^XTMP("XUXTMP",6) = Training,manager^M^2380731^^2^^^123456789
^XTMP("XUXTMP",7) = southern, myrna^F
^XTMP("XUXTMP",8) = jones,joan^^2560506^^^012345678
^XTMP("XUXTMP",9) =
^XTMP("XUXTMP",10) = fee basis vendor records cleaned
^XTMP("XUXTMP",11) = Ding Dong M.D.^222334444^^^2^^1^^^
^XTMP("XUXTMP",12) =
^XTMP("XUXTMP",13) = HBHC patient file records cleaned

```

You can use the routine ^XUXPRT to print this new globals. It may be quite large, thus your site may want to queue the job for later. Once the hardcopy of ^XTMP("XUXTMP") has been printed, your site can use the FileMan option ENTER OR EDIT FILE ENTRIES to enter the correct State and/or County data.

2.60.2 Routines

The second line of this routine should look like this:

```
;;8.0;KERNEL;***102***;Jul 10, 1995
```

Checksums were calculated by CHECK^XTSUMBLD

Routine	Before Checksum	After Checksum
XUXCTY	N/A	5011240
XUXPRT	N/A	293411

Note: Global ^XTMP("XUXTMP") will only exist on your system for seven days from the date you run the routine ^XUXCTY. Thus, it is important that you run the print routine prior to the kill date for this temp global. If you miss however, all you need to do is rerun the routine ^XUXCTY.

Routine Information

Routine Name: XUXCTY
Routine Checksum:

Routine Name: XUXPRT
Routine Checksum:

2.60.3 Installation

This patch can be loaded with users on the system. Installation will take less than 2 minutes.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu.
2. New routines will not be mapped.
3. On the KIDS menu under the 'INSTALLATION' menu, use the following options as desired:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
4. On the KIDS menu under the 'INSTALLATION' menu, use the following option to install the patch:
 - Install Package(s) (XU*8.0*105)
5. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//," respond 'NO'.
6. Routines were not unmapped as part of step 2, because these are new routines

2.60.4 Post Installation

Note: Global `^xtmp("xuxtmp")` will only exist on your system for seven days from the date you run the routine `^xuxcty`. Thus, it is important that you run the print routine prior to the kill date for this temp global. If you miss however, all you need to do is rerun the routine `^XUXCTY`.

Once your site installs this patch, you must execute the following to fully implement the desired functionality:

1. Go into programmers mode `D ^XUP`
2. From programmers mode run the routine `^XUXCTY`. `D ^XUXCTY` This routine will perform the identification and cleanup of these exceptions
3. Examine the global `^XTMP("XUXTMP")` which now exists at your site. To examine the global, its best to use `D ^%G`. This global contains the zero node of all the records found to be exceptions or that were changed.

4. Sites use routine ^XUXPRT to print the global. The global maybe quite large, thus your site may want to queue the job for later.
5. Once the hardcopy of ^XTMP("XUXTMP") has been printed, use the FileMan option enter or edit file entries to enter the correct State and/or County data.

2.61 XU*8*96 SEQ #90: Link Files 4 and 9999999.06

Category: Data Dictionary

2.61.1 Description

PCE	PCE has it's own Location file (#9999999.06) which points to the institution file. This file needs to be updated whenever a entry is added to or deleted from the institution file. The PCE file will be updated to include all current entries in file 4.
-----	--

2.61.2 Routines

Checksum's calculated by CHECK^XTSUMBLD

Routine	Old	New	Second Line
XUINPCH	4506459	5067911	**20,36,49,63,65,69,96**

This Routine Only Carries Post-Init Code

Routine Information

Routine Name: XUINPCH

Routine Checksum:

2.61.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

4. This patch can be queued and installed at any time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*96'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.62 XU*8*103 SEQ #91: Update to Patch 94

Category: Routine

2.62.1 Description

XQ	The XQ routine in patch XU*8*94 did not have the changes included. It was changed back to its "before" state accidentally. While this did not cause any operational problems. The changes still need to get out to the field.
----	---

2.62.2 Routines

Second line:

```
;;8.0;KERNEL;**9,46,94,103**;Jul 10, 1995
```

Routine	Old	New	Second Line
XQ	14125950	14095659	**9,46,94,103**

List of preceding patches: 9, 46, 94

Sites should use CHECK^XTSUMBLD to verify checksums

Routine Information

Routine Name: XQ

Routine Checksum:

2.62.3 Installation Instructions

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:

- Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (Anybody using an option will get a CLOBBER error when they return to the menus.)
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*103'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. DSM Sites, after patch has installed, rebuild your map set.

2.63 XU*8*91 SEQ #92: NOIS Cleanup

Category: Routine, and Data Dictionary

2.63.1 Description

NOIS Reference Number	Routine	Description
ASH-1098-30259 BRX-0898-11548 MAC-0698-62282		The Option remove A type of error pointed to the wrong routine. Corrected.
PUG-0498-52588	XQALFWD	The input to the Comment field didn't follow VA guidelines and allow ? or ?? for help. Fixed.
BIL-0797-30082	XQALFWD	The code at MAIL1 wouldn't allow forwarding of alert to a mail message.
E3R 11300	XUWORKDY	The E3R included the code for 2 new entry points in XUWORKDY \$\$WORKDAY^XUWORKDY(date) returns 1 if the day is a workday (Mon-Fri and not a Holiday) else 0, \$\$WORKPLUS(date,offset) given a date and a offset in days +/-, returns the date that will give that number of workdays.
ANN-0798-40365		The screen on file 3.5 is not compatible with FM relational jumps to file 3.2 during prints. Changed to work in this environment.

2.63.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

::8.0;KERNEL;<patchlist>;Jul 10, 1995

Routine	Old	New	Second Line
XQALFWD	10058961	10528433	**6,65,91**
XUINPCH	5067911	5067911	**20,36,49,63,65,69,96,91**
XUWORKDY	908391	1501394	**65,71,77,91**

List of preceding patches: 6, 20, 36, 49, 63, 65, 69, 71, 77, 96

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUWORKDY

Routine Checksum:

Routine Name: XQALFWD

Routine Checksum:

Routine Name: XUINPCH

Routine Checksum:

2.63.3 Installation Instructions

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors are acceptable in the XQALFWD routine, then users can stay on the system.)
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*91'

- No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.64 XU*8*101 SEQ #93: Kill XTMP Global when Converting

Category: Routine

2.64.1 Description

When using the 'convert a transport' option, the XTMP global isn't killed. A line of code was added to XPDIU to ensure that the global gets cleaned up on completion.

2.64.2 Routines

Checksums obtained using CHECK^XTSUMBLD.

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDIU	8165680	8180046	**15,41,44,51,58,101**

Routine Information

Routine Name: XPDIU

Routine Checksum:

2.64.3 Installation Instructions

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System

- Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) XU*8.0*101
 6. AXP Sites, after patch has installed, rebuild your map set.

2.65 XU*8*104 SEQ #94: Several ZIS Fixes

Associated patches:

(v)XU*8*69 - install with patch - `XU*8*104'

(v)XU*8*84 - install with patch - `XU*8*104'

Category: Routine

2.65.1 Description

Note: The KERNEL 8.0 install had a separate file for the MGR routines **and then cleaned up un-needed routines, because of this you may not **have copies of routines not needed by your system.

NOIS Reference Number	Routine	Description
BRX-0898-12101	ZIS2	If a device had the Out Of Service field set, the user was asked if this was OK. The outcome was that the user could queue to a device that was OOS. This change will make OOS devices unavailable.
HOU-1198-72017	ZIS2 ZIS1	If a device had the Queuing field set to not allowed and queuing was selected, the device would be selected with just the IO("Q") flag cleared. This patch will cause the user to be re-asked the device question.
WNY-0398-11876 SAM-1098-22294 LEB-1198-20188	ZISFVXD ZISFMSM	The %ZISF routine wasn't making consistent use of the HFS default directory. See Forum message # 26562896.
CPRS	ZISHMSM ZISHONT ZISHVXD	The call to OPEN^%ZISH wasn't setting the IO subtype variables to appropriate values. Now they will default to P-OTHER 132 by 60.
	ZOSFONT	Avanti team, Do not allow HIGH priority on Cache.

NOIS Reference Number	Routine	Description
HL7 team	ZTMS1	When running dual TaskMan on DSM systems, if a task requests to run on the other node from the one that picks it up, then the task is placed in the "C" list and is lost. This is fixed by having the sub-manager look in the "C" list as part of its checking for work to do.

2.65.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;JUL 10, 1995
```

Checksum

Routine	Old	New	Second Line
ZIS1	10963783	10911260	**18,49,69,104**
ZIS2	10569129	10396923	**69,104**
ZIS3	5727193	6138459	**18,36,69,104**
ZISFMSM	4473223	4796822	**104**
ZISFVXD	5940026	6059078	**104**
ZISHMSM	5978186	6060577	**24,36,49,65,84,104**
ZISHONT	5018937	5114296	**34,65,84,104**
ZISHVXD	7237979	7315736	**24,36,65,84,104**
ZOSFONT	6905729	6981333	**34,104**
ZTMS1	6234917	6242844	**36,49,104**

List of preceding patches: 18, 24, 34, 36, 49, 65, 69, and 84.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZIS2

Routine Checksum:

Routine Name: ZIS3

Routine Checksum:

Routine Name: ZISFMSM

Routine Checksum:

Routine Name: ZISFVXD

Routine Checksum:

Routine Name: ZISHMSM

Routine Checksum:

Routine Name: ZISHONT

Routine Checksum:

Routine Name: ZISHVXD

Routine Checksum:

Routine Name: ZOSFONT

Routine Checksum:

Routine Name: ZIS1

Routine Checksum:

Routine Name: ZTMS1

Routine Checksum:

2.65.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.) The risk is users or tasks that are in the Device Handler at install time. Also place TASKMAN in a wait state.
5. From Programmer Mode: D ^XPDKRN
 - Install Package(s) 'XU*8.0*104'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account:

ZIS1
 ZIS2
 ZIS3
 ZISFMSM
 ZISFVXD
 ZISHMSM
 ZISHONT
 ZISHVXD
 ZOSFONT
 ZTMS1

7. And in the manager account, (OpenM sites remain in VAH)

- All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 104

8. DSM Sites, after patch has installed, rebuild your map set.

9. Enable user's login.

10. Remove TASKMAN from the wait state.

2.66 XU*8*109 SEQ #95: Fix BROKER Problem W/XU*8*69

Associated patches: (v)XU*8*82 install with patch `XU*8*109'

Category: Routine

2.66.1 Description

NOIS Reference Number	Routine	Description
HIN-1298-40427	XUSRB	A convoluted link with patch XU*8*69 is causing problems in CPRS at DSM sites. The error is %DSM-E-DEVNOTOPN at QUIT^%ZIS6 with IO(0) null. This only happens at DSM sites that do not have auto sign-on disabled. The code that calls the client agent makes a call to HOME^%ZIS and the TCP connection doesn't work as a home device. The fix is to have the XUSRB save the NULL device as the HOME device before the call to Client agent.

2.66.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 05, 1995
```

Checksum

Routine	Old	New	Second Line
XUSRB	5576613	5738122	**11,16,28,32,59,70,82,109**

List of preceding patches: 11, 16, 28, 32, 59, 70, and 82

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUSRB

Routine Checksum:

2.66.3 Instillation

1. DSM sites - This routines is usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system.
 - Stop the Broker server(s).
 - "DO STOP^XWBTCPC(<socket>)" on each node that has Broker running. (If you install when few users are on the system and the possibility of some CLOBBER/NOSOURCE errors is acceptable, Leave the Broker running and queue the install for after hours.)
5. On the KIDS menu, under the 'Installation' menu, use the following option:

- Install Package(s) 'XU*8.0*109'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set. If the Broker was stopped, Remember to restart it. "DO STRT^XWBTCP(<socket>)" on each Broker node.

2.67 XU*8*107 SEQ #96: KERNEL Updates for RUM

Category: Routine

2.67.1 Description

This patch contains KERNEL updates for the RUM package.

Changes to %ZOSVKR

1. New label 'RU(KMPROPT,KMPRTYP,KMPRSTAT)' is introduced. All calls to %ZOSVKR will now go through this label.
2. %ZOSVKR now collects data on a daily basis only (previous versions collected data hourly).

Changes to LOGRSRC^%ZOSV

1. Adds 2 new parameters: TYPE and STATUS.
2. Now checks to see if RUM is turned on before continuing.
3. Calls %ZOSVKR through new label RU().

Routine	Description
ZOSVONT	A change to allow opening TCP/IP devices from %ZIS. DEVOK will not try and open channel type devices.

2.67.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
::8.0;KERNEL;<patchlist>;Jul 21, 1998
```

Checksums

Routine	Old	New	Second Line
ZOSVKRM	186974	217494	**90,94,107**
ZOSVKRO	186974	217494	**90,94,107**

Routine	Old	New	Second Line
ZOSVKRV	5026320	5456477	**90,94,107**
ZOSVMSM	10267389	10431698	**13,25,49,94,107**
ZOSVONT	5191213	5510564	**34,94,107**
ZOSVVXD	5822652	6011813	**13,65,71,94,107**
ZUMSM	2427019	3349196	**13,42,49,94,107**

List of preceding patches: 13, 25, 34, 42, 49, 65, 71, 90, 94

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZOSVKRM
Routine Checksum:

Routine Name: ZOSVKRO
Routine Checksum:

Routine Name: ZOSVKRV
Routine Checksum:

Routine Name: ZOSVMSM
Routine Checksum:

Routine Name: ZOSVONT
Routine Checksum:

Routine Name: ZOSVVXD
Routine Checksum:

Routine Name: ZUMSM
Routine Checksum:

2.67.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:

- Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded at any non-peak time.
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*107'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. After installing this patch,
 - OpenM Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZOSVKRM
 - ZOSVKRO
 - ZOSVKRV
 - ZOSVMSM
 - ZOSVONT
 - ZOSVVXD

And in the manager account, (OpenM sites remain in VAH)

 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 107
 7. DSM Sites, after patch has installed, rebuild your map set. ***MSM Sites "ZL ZUMSM ZS ZU" **

2.68 XU*8*113 SEQ #97: Help Frames Loop

Category: Routine

2.68.1 Description

Occasionally users would get stuck in a loop when viewing help frames. XQH4 has been modified to prevent this from happening. This problem was reported by CIOFO developers while testing MailMan patch XM*7.1*50. It will become a required patch for XM*7.1*50.

2.68.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XQH4	7496850	7661590	**113**

Routine Information

Routine Name: XQH4

Routine Checksum:

2.68.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use 'D ^XPDKRN':
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*113
7. AXP Sites, after patch has installed, rebuild your map set.

2.69 XU*8*111 SEQ #98: NOIS Fixes

Category: Routine, Data Dictionary

2.69.1 Description

NOIS	RTN	Description
LIT-1298-71717	XUS1	The code that logs users into the sign-on log is very old and if the current date/time was in use, it would add 1 second to the time. With the large number of users and tasks that are logged these days it often would increment past 60 seconds and sometimes past 60 minutes. The fix was to increment by 1/100th of a second.
DAY-1098-42371	XUTMOPT	"One time queuing" would allow queuing to devices that cannot be queued to. Checks were added to prevent this.
BOS-0199-10157	XQALFWD	When forwarding an alert, and no comment was entered the alert was not forwarded and the user did not know the alert wasn't sent.
	XUSTAT	We found that XUSTAT had a reference to file 3. This has been changed to file 200.
MIN-0199-40756		The Institution file still has some subfiles 49.01 and 49.02 that still point to file 3. These had been marked for deletion and now are deleted.
ALX-0199-71347		An error was occurring when a new entry was added to the Institution file because of the AD x-ref. The fix was to NEW the variable DS in the x-ref.

2.69.2 Routines

Checksums obtained using CHECK^XTSUMBLD

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums

Routine	Old	New	Second Line
XQALFWD	10528433	10594990	**6,65,91,111**
XUINPCH	5067911	5263885	**20,36,49,63,65,69,96,91,111**
XUS1	10420726	10153593	**9,59,111**
XUSTAT	12766906	12791683	**111**
XUTMOPT	3629975	3867301	**2,111**

List of preceding patches: 2, 6, 9, 20, 36, 49, 59, 63, 65, 69, 91, 96

Routine Information

Routine Name: XUS1

Routine Checksum:

Routine Name: XQALFWD

Routine Checksum:

Routine Name: XUSTAT

Routine Checksum:

Routine Name: XUINPCH

Routine Checksum:

Routine Name: XUTMOPT

Routine Checksum:

2.69.3 Installation

1. DSM sites - Some of these routines may be mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. Users can remain on the system. This patch can be loaded any non-peak time. This patch can also be queued for install at non-peak hours.
4. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: 'XU*8.0*111'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.70 XU*8*100 SEQ #99: KIDs Fixes for CPRS

Category: Routine, Data Dictionary

2.70.1 Description

This patch contains fixes to KID's Routines, ScreenMan Forms, and Data Dictionary structures. The following summarizes the fixes made:

- Version checking should abort entire master build or provide control to developers. A new field was added to the Build file to allow the developer to define whether a master build should continue if the current build being processed does not load properly. If this field is not set or set to *NO*, the user installing the build will be asked whether to continue to load that build or remove it. The rest of the builds in the master build will continue to be processed (as it currently does). If this field is set to *YES*, the entire build will be unloaded and aborted if the build fails to load properly. This field was also added to the ScreenMan form used to edit multiple builds. A new field was added to the Install file to record the value that was set for each build in the master build.
- Allow use of decimals in multiple builds sequence order and remove 99 build limit. The Data Dictionary structure for the .001 field was changed to allow numbers from 1 to 999.99.
- Include sequence numbers in Build file print. The printout was modified to include sequence numbers and whether a build is 'Required to Continue' or not. If a second page was being printed a bogus header would appear. The code has been modified to print the correct header at the top of each page.
- Sequence # of patch not being recorded in patch history 100% of the time. The parsing algorithm used to update the patch history in the Package file was modified to ensure that it would successfully handle a situation when the patch number was the same as the sequence number. This was reported in NOIS NOP-1098-10115.

2.70.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 05, 1995
```

Checksum

Routine	Old	New	2nd Line
XPDDP	11970878	12306591	**21,28,44,68,100**
XPDIL1	9803540	10189777	**15,17,39,41,44,66,68,76,85,100**
XPDIP	9566536	9539699	**15,21,28,30,41,44,51,58,83,92,100**

Routine	Old	New	2nd Line
XPDT	19140903	19282131	**2,10,28,41,44,51,58,66,68,85,100**
XPDTC	13310019	13394346	**10,15,21,39,41,44,58,83,92,95,100**
XPDUTL	2677326	2708596	**21,28,39,81,100**

List of preceding patches: 2, 10, 15, 17, 21, 28, 30, 39, 41, 44, 51, 58, 66, 68, 76, 81, 83, 85, 92, and 95

Sites should use CHECK^XTSUMBLD to verify checksums

Routine Information

Routine Name: XPDUTL
Routine Checksum:

Routine Name: XPDDP
Routine Checksum:

Routine Name: XPDIL1
Routine Checksum:

Routine Name: XPDIP
Routine Checksum:

Routine Name: XPDT
Routine Checksum:

Routine Name: XPDTC
Routine Checksum:

2.70.3 Data Dictionary Updates

Build File (#9.6)

Field 10 - MULTIPLE BUILD (Multiple-9.63), [10;0]

- .001 INSTALL ORDER (NJ6,2), [] - **1 to 999.99**
- .01 MULTIPLE BUILD (MFX), [0;1]
- .02 REQUIRED TO CONTINUE (S), [0;2] - **new**

Install File (#9.7)

Field 6.5 - REQUIRED TO CONTINUE (S), [0;7] - **new**

2.70.4 ScreenMan Forms

XPD EDIT MP

Edit a Build		PAGE 1 OF 1
Name: TEST MASTER 1.0	TYPE: MULTI-PACKAGE	

Name: TEST MASTER 1.0		
Date Distributed:		
Description:		
Install Order	Packages or Patches	Required to Continue

1	TEST*1.0*1	NO
1.5	XU*7.1*999	YES
2	TEST*1.0*2	YES

Figure 2-6: Screen man form

2.70.5 Installation Instructions

1. Users ARE allowed to be on the system during the installation. Since this is a KIDS installation NO users should be using KIDs during installation.
2. AXP sites: Review your mapped routine set. If any of the routine(s) listed in the Routine Summary section are mapped, they should be removed from the mapped set at this time.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. Use KIDS to install the transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmer prompt and use "D ^XPDKRN"
 - Install Package(s)
 - INSTALL NAME: XU*8.0*100
 - At the prompt: 'Want to DISABLE Scheduled Options and Menu Options?' enter NO.
5. If the routines were unmapped as part of step 2, the mapped set should be rebuilt once the installation has run to completion.

2.71 XU*8*110 SEQ #100: Fixing XQCHK and Adding UserHasAccess Function

Category: Routine

2.71.1 Description

XU*8*110 UserHasAccess

Prerequisites: There are no prerequisites for this patch.

CPRS and other systems have asked for a function to tell them if a user has access to a particular menu option.

W \$\$ACCESS(DUZ,Option IEN) returns:

- -1 means: No such user in the New Person File
- -2 means: User terminated or has no access code
- -3 means: No such option in the Option File
- 0 means: No access found in any menu tree the user owns

For all other cases it returns up to 4 pieces in a string: access ^ menu tree IEN ^ a set of codes ^ lock Some of these pieces may be null.

- O^OpIEN^codes^lock: No access because of locks (see CODES below) where 'OpIEN' is the menu where access WOULD be allowed and 'lock' is the lock preventing access.
- 1^OpIEN^^: Access allowed through Primary Menu
- 2^OpIEN^codes^: Access found in the Common Options
- 3^OpIEN^codes^: Access found at top level of secondary menu
- 4^OpIEN^codes^: Access through a the secondary menu tree OpIEN.

CODES can contain:

- N=No Primary Menu in the User File (warning only)
- L=Locked and the user does not have the key (forces 0 in first piece)
- R=Reverse lock and user has the key (forces 0 in first piece)

This build also contains an option XQOPACCESS (See If a User Has Access to a Particular Option) which is an interactive version of the above function, allowing the IRM staff to enter a User's name and the name of an option to see if access is allowed. This option is found on the Menu Management menu.

2.71.2 Routines

The second line of these routines should look like this:

```
;;8.0;KERNEL;*[patch list]*;Jul 10, 1995
```

Routine	Before	After
XQCHK	7318302 **47**	18037162 **47,110**

Routine Information

Routine Name: XQCHK

Routine Checksum:

2.71.3 Installation

1. This routine is not usually mapped on systems that allow mapping so you may not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
 - Install Package XU*8.0*110
5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Computer and Print server(s).
6. Rebuild your mapped set if necessary.
7. If users are allowed to remain on the system during installation, errors may occur when the routine is loaded, but the probability is slight.

2.72 XU*8*116 SEQ #101: XUCOMMAND Rebuild Problem

Category: Routine

2.72.1 Description

NOIS	RTN	Description
WAS-0199-22113 PRO-0199-11872 PUG-1298-50104 DAY-0598-40040	XUCOMMAND	Under certain circumstances, especially in conjunction with CPRS, the XUCOMMAND menu tree would be rebuilt more frequently than was strictly necessary, causing a rebuild to occur while another rebuild was already in progress. This might result in an <UNDEF> error in one of several Menu Management routines. This patch prevents unnecessary rebuilds.

2.72.2 Routines

The following routines are included in the patch. The second line of each of these routines now look like this:

```
::8.0;KERNEL;*[patch list]**; Jul 05, 1995
```

Checksums were obtained using CHECK^XTSUMBLD.

Routine	Before Checksum	After Checksum	Patch List
XQ8	11887347	11996023	81,89,116
XQ81	16727947	17045916	81,116
XQCS	12754137	12250092	15,28,82,116

2.72.3 Installation Instructions

1. These routines are not usually mapped on systems that allow mapping so you may not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
 - Install Package XU*8.0*116

5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP sites should answer "no" to this question.
6. Rebuild your mapped set if necessary.
7. If users are allowed to remain on the system during installation errors may occur when the routines are loaded.

2.73 XU*8*112 SEQ #102: NOIS Fixes and API's

Category: Routine

2.73.1 Description

NOIS	RTN	Description
FOIA	XVIRPOST	This routine for setting up a DHCP system from scratch still referenced files 3, 16. Fixed. Requested by the DBA.
	XUAF4	Fixed in the \$\$LKUP API.
LAS-0399-60359	XUTMOPT	In fixing the problem in NOIS DAY-1098-42371 I broke "One time queuing" if a device wasn't needed. Now works correctly in both cases.
FORUM	XTER1A	Addressed a conflict with XM*7.1*50 and sending error report as mail message.
	XLFSTR	New function call added \$\$TRIM^XLFSTR(x, "[L][R]"). This call will trim spaces from the left, right or both of a input string.
MWV-1298-22309 MIW-0898-40133	ZTLOAD1	It was possible for a task that was being requeued to end up with an invalid device because of how %ZTLOAD was building the entry in the task global.
WebTop Broker	ZIS ZIS1	Code to allow special applications to establish a home device from the background. [F#28972403]
Cache	ZTER ZTER1	Added code to save a special Cache variable. Simplify some code in Unwind.
FORUM	ZIS2	TaskMan was getting a subscript error because of a job tasked to a slave device. Fix was to check if IO="" and set POP it true.
		Request from DBA to add E-Mail Address field to New Person file. Field .151 node .15 to be used by IFCAP.

2.73.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XLFSTR	1841692	2042372	**112**
XTER1A	16315266	13449705	**63,112**
XUAF4	1190987	1458355	**43,112**
XUTMOPT	3867301	3807330	**2,111,112**
XVIRPOST	4773190	3825342	**112**
ZIS	9534282	9454725	**18,23,69,112**
ZIS1	10911260	10540675	**18,49,69,104,112**
ZIS2	10396923	10140057	**69,104,112**
ZTER	19873831	18976906	**8,18,32,24,36,63,73,79,86,112**
ZTER1	5664740	4369079	**18,24,36,49,112**
ZTLOAD1	6320450	6628172	**112**

List of preceding patches: 2, 8, 18, 23, 24, 32, 36, 43, 49, 63, 69, 73 79, 86, 104, and 111

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZIS

Routine Checksum:

Routine Name: ZIS1

Routine Checksum:

Routine Name: ZTLOAD1

Routine Checksum:

Routine Name: XLFSTR

Routine Checksum:

Routine Name: XTER1A

Routine Checksum:

Routine Name: ZTER

Routine Checksum:

Routine Name: ZTER1

Routine Checksum:

Routine Name: XUTMOPT

Routine Checksum:

Routine Name: ZIS2

Routine Checksum:

Routine Name: XUAF4

Routine Checksum:

Routine Name: XVIRPOST

Routine Checksum:

2.73.3 Installation

Note: Do not allow users to log in to the system during installation.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.)
5. Use "D ^XPDKRN" then Install Package(s) 'XU*8.0*112'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZIS
 - ZIS1
 - ZIS2
 - ZTLOAD1

- ZTER
 - ZTER1
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 112
 8. DSM Sites, after patch has installed, rebuild your map set.
 9. Enable user's login.

2.74 XU*8*98 SEQ #103: Protocol File DD Cleanup

Category: Data Dictionary and Routine

2.74.1 Description

This patch is to re-namespace the routines called from within the protocol file from OR* routine to XQOR* routines. It turns out that only 2 routines and the compiled cross-references needed to be changed. The 2 routine are ORDD101 to XQORD101 and ORDD1 to XQORDD1 and the X-ref from ORD1 to XQORC.

2.74.2 Routines

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XQORD101		7689712	**98**
XQORDD1		6335340	**98**

Routine Information

Routine Name: XQORD101

Routine Checksum:

Routine Name: XQORDD1

Routine Checksum:

2.74.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.) Also place TaskMan in a wait state.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*98'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.75 XU*8*121 SEQ #104: %ZOSVKSD Routine Needed for SAGG

Associated patches: (v)XU*8*94 - <<= must be installed BEFORE `XU*8*121'

Category: Routine

2.75.1 Description

This patch is being released by Capacity Management (CM) in anticipation of a future patch for the Statistical Analysis of Global Growth (SAGG) Version 1.8 software package. A future SAGG patch will enable the collection of disk capacity information from the sites.

This patch distribution will be adding a new %ZOSVK* routine to the system-specific manager routine set. The accompanying installation instructions will guide you in adding these routines to your system.

This distribution also contains the ZTMGRSET routine that will save the new routine under the correct name.

2.75.2 Routines

Checksum

Routine	Old	New	2nd Line
ZOSVKSD		1846282	**121**
ZTMGRSET	14184637	14310699	**34,36,69,94,121**

Checksums calculated by CHECK^XTSUMBLD

Routine Information

Routine Name: ZOSVKSD
 Routine Checksum: 1846282

Routine Name: ZTMGRSET
 Routine Checksum: 14310699

2.75.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.)
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*121'
 - No options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. OpenM sites - you do not need to move any routines, skip this step.

- DSM and MSM sites - you need to move several routines from your production account to each manager account.
 - ZOSVKSD
 - ZTMGRSET
7. And in the manager account, (OpenM sites remain in VAH)
- All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 121
8. DSM sites - after patch has installed, rebuild your map set.
9. Enable user logins.

2.76 XU*8*117 SEQ #105: Package File Update

Category: Data Dictionary

2.76.1 Description

This patch adds two new fields and removes several fields marked for removal.

New Fields

This Patch adds a new field with data to the Package file: Additional Prefixes. This was requested by the DBA so that packages could check patches in KIDS when the patch was in alternate prefix namespace.

This patch adds a new field: MAIL GROUP, that KIDS will use with patch XU*8*108 to send a local install message.

Note: You might want to add local Mail Groups that should be notified when a package is installed.

FIELD REMOVAL

The following fields are removed.

4 *ROUTINE
 5 *GLOBAL
 11.1 *MAINTENANCE ISC
 11.4 *VERIFICATION
 11.5 *ALPHA
 11.6 *BETA
 11.7 *DELTA
 12 *PRIMARY HELP FRAME
 200.1 *USER TERMINATE TAG
 200.2 *USER TERMINATE ROUTINE
 1920 *STATUS
 1933 *KEY VARIABLE

And in the VERSION multipule

51 *RELEASE NOTE
 61 *INSTALLATION NOTES
 62 *SYSTEM REQUIREMENTS
 63 *PROGRAMMER NOTES

The following fields marked with a * have been left at this time.

9.5 *MENU (multiple)
 10.6 *LOWEST FILE NUMBER
 11 *HIGHEST FILE NUMBER

Several fields used by DIFROM and marked for removal have had the * removed from the name.

2.76.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
::8.0;KERNEL;<patchlist>;Apr 10, 1999
```

Checksum

Routine	Old	New	2nd Line
XUPCH117		6388451	**117**

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUPCH117
 Routine Checksum:

2.76.3 Installation

1. Install is file data only.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*117'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.77 XU*8*114 SEQ #106: Alert Surrogate/Delete

Category: Routine

2.77.1 Description

This patch fixes several problems associated with alerts and provides numerous requested enhancements.

NOIS

HUN-0997-20420 MAC-1198-60864

The ability to forward an alert has been limited to the point of selection and prior to processing an alert. A number of users have requested the ability to view and/or process an alert and then be able to forward (as reflected in the above NOIS entries) or set the alert as new again for subsequent processing. The current patch adds the ability to forward or re-new the alert at the point where previously the user was asked about continuing alert processing. Routines affected: XQALERT1, XQALFWD

WBP-0198-22413

While CPRS has supported a capability to send alerts directly to a designated

surrogate, this has left other packages without such an ability. This NOIS and CPRS developers have requested a more generic surrogate capability supported directly by the alerts within Kernel. The current patch adds the ability for an individual using a new 'S' option within the alerts to designate and/or remove a surrogate for their alerts. The user may, if desired, specify a start date/time and/or an end date/time for the surrogate to be effective. If an end date/time is specified, the surrogate will be removed automatically effective with the first alert sent to the user after the end date/time has passed. If a start date/time is not specified, the surrogate becomes active immediately. If an end date/time is not specified, the surrogate is active until the user removes the surrogate. A message is sent to the surrogate to indicate that he has been designated as a surrogate, and a message is sent when the surrogate is removed. If the user has no alerts and selects the alert option, he will be asked if he wants to add or remove a surrogate. A new option (XQALERT SURROGATE SET/REMOVE) is also provided which may be used by IRM or ADPAC staff to add or remove a surrogate for a selected user. This option has been added to the Alert Manager option. Routines affected: XQALERT1, XQALSET, XQALSURO (a new routine)

ISL-0299-50356

A problem was identified such that if an alert was deleted for a given user, and then the same alert was specified to be deleted for the same user, it resulted in the alert being deleted for the next user with a higher internal entry number and the alert was still active. This patch corrects this problem. Routines affected: XQALDEL

Functionality requested by CPRS developers

The ability for a user to delete specific alerts without viewing and/or processing them has been requested many times. In this patch, this functionality is included by providing the new 'D' option within the alerts. This option provides the ability to delete "information only" alerts. Alerts that require processing can not currently be deleted. In the future, however, if alerts requiring processing are created with the new variable XQACNDEL set to 1 they too would be able to be deleted (i.e., the developer of the code which creates the alert can specify if it must be processed or can be deleted). Any alerts that were selected for deletion, but could not be deleted will be noted for the user. The ability for the user to delete alerts other than information only will require that the developers within a package decide that specific alerts, which would normally invoke processing via an option or routine, may be deleted specifically by the user without processing. They would then set the variable XQACNDEL to a value of 1 (one) prior to calling SET^XQALERT to set up the alert. Deletion of an alert by the user (or by IRM or ADPAC staff using the existing option) is noted within the Alert Tracking file as deletion by a user (with the user ID) without processing of the alert. Routines affected: XQALERT1, XQALDEL

There have been several requests for the display of pending alerts to return to the current screen after an alert has been processed. This capability is included within the current patch. Routines affected: XQALERT1

2.77.2 Entry Points

The following entry points are added within this patch and are entered as supported references.

- **AHISTORY^XQALBUTL(XQAID,ROOT)** - Provides information from the Alert Tracking file for the alert indicated by the alert ID (XQAID). The information is returned descendent from the closed root specified by Root in the form that it is present in the Alert Tracking file.
- **\$\$PENDING^XQALBUTL(XQAUSER,XQAID)** - Returns 1 (one) if the alert indicated by the alert ID (XQAID) is currently pending for the user with internal entry number specified by XQAUSER. Otherwise a value of 0 (zero) is returned.
- **\$\$PKGPEND(XQAUSER,XQAPKG)** - Returns 1 if the user indicated by XQAUSER has any pending alerts with the first ';' -piece of XQAID equal to the package identifier indicated by XQAPKG.
- **SETSURO^XQALSURO(XQAUSER,XQALSURO,XQALSTRT,XQALEND)** - Establishes for the user with internal entry number XQAUSER a surrogate with the internal entry number XQALSURO. XQALSTRT is an optional start date/time in internal VA FileMan format, and XQALEND is an optional end date/time in internal VA FileMan format.
- **REMVSURO^XQALSURO(XQAUSER)** - Removes the current surrogate (if any) for the user with the internal entry number XQAUSER.
- **\$\$CURRSURO^XQALSURO(XQAUSER)** - For the user with internal entry number XQAUSER returns the internal entry number of the current surrogate or -1 if there is no surrogate specified.
- **ALERTDAT^XQALBUTL(XQAID,ROOT)** - Returns information from Alert Tracking file for alert with XQAID. The data is returned descendent from the closed root passed in ROOT. If ROOT is not specified, the data is returned in the array XQALERTD. The array is subscripted by the field number, the value is returned as the internal value (including NULL values) and, if the internal and external values differ, followed by the external value separated by '^'. If the field names are desired, they are also included as a second subscript to the array (with a null value). If the alert is not present, the array root is returned with a NULL value.
- **USERLIST^XQALBUTL(XQAID,ROOT)** - Returns recipients of alert with ID of XQAID from Alert Tracking file in an array descendent from the closed array specified in Root. If Root is not specified, then the data is returned in XQALUSRS. The data is returned subscripted by an integer, and the value contains the internal entry number for the user in File 200 and the external value for the user's name (the .01 field in file 200) separated by '^'. If the specified alert is not present, the array root is returned with a null value.

- **USERDATA^XQALBUTL(XQAID,XQAUSER,ROOT)** - returns information from the Alert Tracking file related to the alert with an ID of XQAID for the user specified by the internal entry number in XQAUSER. The data is returned descendent from the closed root passed in Root. If Root is not specified, the data is returned in the array XQALUSER. The array is subscripted by the field number, the value is returned as the internal value (including null values) and, if the internal and external values differ, followed by the external value separated by '^'. If the field names are desired they are also included as a second subscript to the array (with a null value). If the alert is not present, the array root is returned with a null value.

2.77.3 Data Dictionary Changes

Alert File (8992)

Added field .02 (Surrogate for Alerts) Added field .03 (Surrogate Start Date/Time)
added field .04 (Surrogate End Date/Time)

Alert Date/Time subfile (8992.01)

Added field .1 (Can Delete without Processing)

Alert Tracking file (8992.1)

Recipient subfile (8992.11)

Added field .09 (Deleted by User)

Changes to Options:

Added 'XQALERT Surrogate Set/Remove' as a new option. Added 'XQALERT Surrogate Set/Remove' as an item under the 'XQALERT MGR' option.

2.77.4 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;[Patch List];Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Checksums

Routine	Chksum Before	Chksum After	Patch List
XQALBUTL	2035856	4734926	**114**
XQALDEL	12561210	14175555	**6,24,65,114**
XQALDOIT	9852030	10091815	**1,6,65,114**
XQALERT1	18178207	31077482	**20,65,114**

Routine	Chksum Before	Chksum After	Patch List
XQALFWD	10594990	10666938	**6,65,91,111,114**
XQALSET	12975662	14779633	**6,65,75,114**
XQALSURO	New	5607165	**114**

Routine Information

Routine Name: XQALERT1
 Routine Checksum:

Routine Name: XQALSET
 Routine Checksum:

Routine Name: XQALBUTL
 Routine Checksum:

Routine Name: XQALDEL
 Routine Checksum:

Routine Name: XQALSURO
 Routine Checksum:

Routine Name: XQALDOIT
 Routine Checksum:

Routine Name: XQALFWD
 Routine Checksum:

2.77.5 Installation

1. DSM sites - Some of these routines may be mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can be queued for install at non-peak hours.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*114
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 1, they should be returned to the Mapped set once the installation has run to completion.

2.78 XU*8*37 SEQ #107: Menu Template Updates

Category: Routine

2.78.1 Description

This patch fixes several problems with menu templates:

- The selection of a numbered choice outside of the range of the actual list could cause an <UNDEF> (DAY-0497-42420 and BYN-0297-10733).
- Failure to reenter the primary tree when backing up from a secondary tree (DAY-1295-41818).
- The inability to skip an option in a template by pressing the Return key (FNC-1297-30868).
- Prevents the selection of a broker-type option when creating a menu template.

<p>Note: The software now displays the text of each option it processes as it does so. Your users will notice a change in behavior as menu templates run.</p>
--

2.78.2 Routines

This patch contains 4 routines and 1 help frame.

Checksums were calculated by CHECK^XTSUMBLD

Checksums

Routine	Before Checksum	After Checksum	Patch List
XQT	14403654	14503760	**20,47,46,37**
XQT1	10829937	10816354	**59,37**
XQT2	12277933	14513265	**37**
XQT3	12864808	13422394	**46,37**

Routine Information

Routine Name: XQT
Routine Checksum:

Routine Name: XQT1
Routine Checksum:

Routine Name: XQT2
Routine Checksum:

Routine Name: XQT3
Routine Checksum:

2.78.3 Installation Instructions

1. Users are allowed on the system, and this patch may be queued. A "clobber" error may result if users are in these routines.
2. These routines are not usually mapped, so you shouldn't have to disable mapping.
3. Use the "Install/Check Message" option on the PackMan menu to load the package.
4. On the KIDS menu use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global (Optional)
 - Compare Transport Global to Current System
 - Backup transport Global
 - Install XU*8.0*37
5. MSM sites answer 'YES' to the question: "Want to MOVE routines to other CPUs?" - AXP sites answer 'NO'.
6. Rebuild mapped set if necessary.

2.79 XU*8*108 SEQ #108: KIDS Master Build Improvements

Category: Routine and Data Dictionary

2.79.1 Description

NOIS	Description
ISL-0299-51863	Increase the size of the "load file" string.
E3R # 12059	Send Mail Message to local group. The mail group is defined in the Package file and is new with patch XU*8*117.
CPRS	<p>Allow utilities to work on all components included in a master build.</p> <p>Allow run routines for master builds.</p> <p>Allow install to "inhibit login" for the install duration.</p> <p>Fix an erroneous message when exporting data without the DD.</p> <p>Delete one-time run routines after install. Development sites can override this by setting the Kernel Parameters file with "XPD NO_EPP_DELETE" with a value of 1.</p> <p>Update the "Date Distributed" field in the build and transport to the install and include in tracking message. This will help track test versions installed.</p>

2.79.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XPDB1		734412	**108**
XPDCOM	5277873	5533101	**21,58,108**
XPDDCS	4096637	4207018	**2,44,108**
XPDDP	12306591	12220575	**21,28,44,68,100,108**
XPDPH	4137606	4932993	**58,95,108**
XPDI	13691537	14086873	**10,21,39,41,44,58,68,108**
XPDI1	6953243	7291162	**58,61,95,108**
XPDIB	2753452	3407499	**10,58,108**
XPDIJ	10800990	6991648	**2,21,28,41,44,68,81,95,108**
XPDIJ1	9316977	10020629	**41,68,108**
XPDIK	14344733	13945620	**15,58,108**
XPDIL	11193690	11501302	**15,44,58,68,108**
XPDIL1	10189777	11093962	**15,17,39,41,44,66,68,76,85,100,108**
XPDIP	9539699	9539699	**15,21,28,30,41,44,51,58,83,92,100,108**
XPDIPM	1853833	1828492	**21,28,68,108**
XPDIQ	7824317	7324723	**21,28,58,61,95,108**

Routine	Old Checksum	New Checksum	2nd Line
XPDIST	2400065	4011005	**66,108**
XPDIU	8180046	8188323	**15,41,44,51,58,101,108**
XPDT	19282131	19317490	**2,10,28,41,44,51,58,66,68,85,100,108**
XPDTC	13394346	13712257	**10,15,21,39,41,44,58,83,92,95,100,108**
XPDU TL	2708596	2995571	**21,28,39,81,100,108**
XPDV	11643577	11647335	**30,44,58,108**

List of preceding patches: 58, 100, and 101.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XPDB1

Routine Checksum:

Routine Name: XPDCOM

Routine Checksum:

Routine Name: XPDDCS

Routine Checksum:

Routine Name: XPDDP

Routine Checksum:

Routine Name: XPDH

Routine Checksum:

Routine Name: XPDI

Routine Checksum:

Routine Name: XPDI1

Routine Checksum:

Routine Name: XPDIB

Routine Checksum:

Routine Name: XPDIJ

Routine Checksum:

Routine Name: XPDIJ1

Routine Checksum:

Routine Name: XPDIK

Routine Checksum:

Routine Name: XPDIL
Routine Checksum:

Routine Name: XPDIL1
Routine Checksum:

Routine Name: XPDIP
Routine Checksum:

Routine Name: XPDIQ
Routine Checksum:

Routine Name: XPDIST
Routine Checksum:

Routine Name: XPDIU
Routine Checksum:

Routine Name: XPDT
Routine Checksum:

Routine Name: XPDTC
Routine Checksum:

Routine Name: XPDUTL
Routine Checksum:

Routine Name: XPDV
Routine Checksum:

Routine Name: XPDIPM
Routine Checksum:

2.79.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time.
 5. Use "D ^XPDKRN" then Install Package(s) 'XU*8.0*108'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. DSM Sites, after patch has installed, rebuild your map set.

2.80 XU*8*123 SEQ #109: Alert Fix

Category: - Routine and Patch for a Patch

2.80.1 Description

This patch fixes problems that were encountered in alerts after the release of XU*8*114.

This problem was reported in the following NOIS's: HIN-0799-40444, SBY-0799-30208, OKL-0799-70152, DUB-0799-30121, DAN-0799-40079, LEX-0699-42716, HIN-0699-42496, BRX-0699-12454, HIN-0699-42365, NTH-0599-72608

2.80.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Checksums

Routine	Checksum Before	Checksum After	Patch List
XQALERT1	31077482	31224401	**20,65,114,123**

Routine Information

Routine Name: XQALERT1
 Routine Checksum:

Installation Instructions

1. Users ARE allowed to be on the system during the installation.

2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*123
 - Options or Protocols that need to be placed out-of-order.
 - XQALERT - View Alerts
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
 - AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

2.81 XU*8*115 SEQ #110: KERNEL RPC Broker Update

Category: Routine

2.81.1 Description

This patch is in support of changes coming to the RPC Broker.

- Added a "B" cross-reference to the Division multiple in the New Person file. Created/Added new RPC to set the division during logon.
- A new field in the Kernel System parameters file to hold a broker parameter, the Broker Activity Timeout field. Updated forms and templates for the new field.

RIC-0799-20190 Reported an error that is fixed with this patch.

2.81.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XQCS	12250092	12133342	**15,28,82,116,115**
XUINPCH3		555958	**115**
XUPARAM	1006391	1340230	**65,115**
XUSRA	1890066	1579938	**70,115**
XUSRB	5738122	5880708	**11,16,28,32,59,70,82,109,115**
XUSRB2		783689	**115**

List of preceding patches: 65, 109, and 116

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUSRB2

Routine Checksum:

Routine Name: XUSRB

Routine Checksum:

Routine Name: XUSRA

Routine Checksum:

Routine Name: XUPARAM

Routine Checksum:

Routine Name: XUINPCH

Routine Checksum:

Routine Name: XQCS

Routine Checksum:

2.81.3 Installation

1. DSM sites - Some of these routines may be mapped, so you will need to disable mapping for the affected routines.

2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can also be queued for install at non-peak hours.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*115'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.82 XU*8*124 SEQ #111: KIDS Fixes

Category: Routine

2.82.1 Description

This patch contains fixes for four problems reported in KIDS routines. When installing this patch, no other users should be using KIDS.

NOIS	Routine	Description
TAM-0899-30117 NTH-0799-71454.	XPDCOM	Compare does not work if queued.
FNC-0899-30001	XPDIJ	Break command was left in and accidentally exported in XU*8*108
MAD-0799-40224 ISL-1097-50614	XPDIK	Erroneous message that is misleading to user is displayed during install if data is sent without data dictionary.
FORUM #29418188	XPDTC	When using FM Inquiry to print Build file entries, it does not work properly.

2.82.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 05, 1995
```

Checksum

Routine	Old	New	2nd Line
XPDCOM	5533101	5537105	**21,58,108,124**
XPDIJ	6991648	7207683	**2,21,28,41,44,68,81,95,108,124**
XPDIK	13945620	14212064	**15,58,108,124**
XPDTC	13712257	13724075	**10,15,21,39,41,44,58,83,92,95,100,108,124**

List of preceding patches: 108.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XPDIK
Routine Checksum:

Routine Name: XPDIJ
Routine Checksum:

Routine Name: XPDCOM
Routine Checksum:

Routine Name: XPDTC
Routine Checksum:

2.82.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. Since this is a KIDS installation, NO users should be using KIDS during installation.
2. AXP sites: Review your mapped routine set. If any of the routine(s) listed in the Routine Summary section are mapped, they should be removed from the mapped set at this time.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. Use KIDS to install the transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
5. Return to Programmer prompt and use "D ^XPDKRN"
 - Install Package(s)
 - INSTALL NAME: XU*8.0*124
 - At the prompt: 'Want to DISABLE Scheduled Options and Menu Options?' enter NO.
 6. If the routines were unmapped as part of step 2, the mapped set should be rebuilt once the installation has run to completion.

2.83 XU*8*118 SEQ #112: TaskMan with Cache Update

Category: Routine

2.83.1 Description

NOIS	Routine	Description
HOU-0399-73122	ZTLOAD	As part of the overall work, the error that this site was getting has been fixed. This routine will reject requests to queue to a device the has Queuing field set to Not Allowed. ZTLOAD1, ZTLOAD2, ZISUTL
SAG-0699-40716 LIT-0199-70997 MOM-0799-52593 AMA-0799-72651 SPO-0799-52388	ZTM* XUTMK XUTMG19	This patch has updates to allow Cache sites to run TaskMan on two or more nodes at the same time. How locking was being used with the IO queue was changed to use ^%ZTSCH("DEV",io) in its place. This should allow more than one submanager to look at the "IO" list at the same time. If there is a delay in one device it will not delay other devices. The submanagers now keep a list of available submanagers as well as their count. The option "XUTM QCLEAN" will reset the count as part of its work. Each lock timeout was checked for constancy. Changes to make the Startup flag in the Option Schedule file work better.
	ZOSVONT, ZOSVVXD, ZOSVMSM, ZUONT, ZUVXD	The code to share licenses when GUI and Telnet users from the same workstation are connected is in place and ZU now calls it. There will be a broker patch to follow that will complete the work.
SAG-0599-42045 HL7 Team	ZISTCPS ZTLOAD ZTLOAD2	There wasn't any way to stop the listener other than the use of JOBEXAM/FORCEX. Changed to have listener check for LOGON INHIBIT and call \$\$\$^%ZTLOAD to see if the task has been asked to stop.

NOIS	Routine	Description
	ZTER	The entry point UNWIND^%ZTER would return 0 to a calling function. This has been changed to -9 to make it easier to tell if return is from the error trap.

2.83.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XUTMG14P	883159	1096983	**118**
XUTMG19	3890099	4412102	**20,67,118**
XUTMK	6655042	7364498	**49,67,118**
XUTMOPT	3807330	3961784	**2,111,112,118**
ZIS2	10140057	10170284	**69,104,112,118**
ZIS6	9295013	9023565	**24,49,69,118**
ZISTCP	2862626	2703750	**36,34,59,69,118**
ZISTCPS	1057561	1103406	**78,118**
ZISUTL	2112295	2273417	**18,24,34,69,118**
ZOSVMSM	10431698	10122636	**13,25,49,94,107,118**
ZOSVONT	5510564	6757287	**34,94,107,118**
ZOSVVDX	6011813	6204470	**13,65,71,94,107,118**
ZTER	18976906	18980475	**8,18,32,24,36,63,73,79,86,112,118**
ZTLOAD	1753065	1773483	**67,118**
ZTLOAD1	6628172	6704108	**112,118**
ZTLOAD2	3185920	4207916	**1,67,118**
ZTM	8229940	7928004	**24,36,64,67,118**
ZTM0	5937824	6113151	**42,36,67,88,118**
ZTM1	5569955	5627291	**118**
ZTM2	3666292	3672059	**23,118**
ZTM4	2450447	2321835	**1,118**
ZTM5	3748675	3223273	**24,36,118**
ZTM6	1889159	1943469	**23,118**
ZTMKU	8211227	8280155	**118**
ZTMON	3969317	4340327	**118**
ZTMON1	7519989	7653545	**36,118**
ZTMS	5281307	5545783	**2,18,24,36,67,94,118**
ZTMS0	3205484	3316930	**24,118**
ZTMS1	6242844	8217798	**36,49,104,118**
ZTMS2	5301865	5746563	**2,18,23,36,67,118**

Routine	Old	New	2nd Line
ZTMS3	10008753	9711469	**1,18,36,49,64,67,94,118**
ZTMS7	1498041	1489086	**1,118**
ZUONT	1969174	1992793	**34,94,118**
ZUVXD	4462372	4517687	**13,24,84,94,118**

List of preceding patches: 1, 69, 78, 88, 94, 104, 107, and 112.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUTMG19

Routine Checksum:

Routine Name: XUTMK

Routine Checksum:

Routine Name: ZOSVMSM

Routine Checksum:

Routine Name: ZOSVONT

Routine Checksum:

Routine Name: ZOSVVXD

Routine Checksum:

Routine Name: ZTM

Routine Checksum:

Routine Name: ZTM0

Routine Checksum:

Routine Name: ZTM1

Routine Checksum:

Routine Name: ZTM2

Routine Checksum:

Routine Name: ZTM4

Routine Checksum:

Routine Name: ZTM5

Routine Checksum:

Routine Name: ZTM6

Routine Checksum:

Routine Name: ZTMON1

Routine Checksum:

Routine Name: ZTMS

Routine Checksum:

Routine Name: ZTMS0

Routine Checksum:
Routine Name: ZTMS1
Routine Checksum:
Routine Name: ZTMS2
Routine Checksum:
Routine Name: ZTMS3
Routine Checksum:
Routine Name: ZTMS7
Routine Checksum:
Routine Name: ZUONT
Routine Checksum:
Routine Name: ZUVXD
Routine Checksum:
Routine Name: XUTMOPT
Routine Checksum:
Routine Name: ZIS6
Routine Checksum:
Routine Name: ZISUTL
Routine Checksum:
Routine Name: ZISTCPS
Routine Checksum:
Routine Name: ZTLOAD
Routine Checksum:
Routine Name: ZTLOAD1
Routine Checksum:
Routine Name: ZTLOAD2
Routine Checksum:
Routine Name: ZTMON
Routine Checksum:
Routine Name: XUTMG14P
Routine Checksum:
Routine Name: ZTMKU
Routine Checksum:
Routine Name: ZISTCP
Routine Checksum:
Routine Name: ZIS2
Routine Checksum:
Routine Name: ZTER

Routine Checksum:

2.83.3 Installation

Note: Users can remain on the system

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. Stop TaskMan, and have submanagers stop.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*118'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZIS2
 - ZIS6
 - ZISTCP
 - ZISTCPS
 - ZISUTL
 - ZOSVMSM
 - ZOSVONT
 - ZOSVVXD
 - ZTLOAD

- ZTLOAD1
 - ZTLOAD2
 - ZTER
 - ZTM
 - ZTM0
 - ZTM1
 - ZTM2
 - ZTM4
 - ZTM5
 - ZTM6
 - ZTMKU
 - ZTMON
 - ZTMON1
 - ZTMS
 - ZTMS0
 - ZTMS1
 - ZTMS2
 - ZTMS3
 - ZTMS7
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 118
 8. DSM Sites, after patch has installed, rebuild your map set.
 9. In the production account, You will need to edit file 14.7 first DO ^ZTMCHK and from the second screen look for "Cpu-volume Pair: ROU:APP1".
 10. Edit file 14.7 and change the name from ROU to ROU:APP1 then add a new entry ROU:APP3. The ROU is the volume set name you gave the system and the APP1 should be your Cache configuration name. The Avanti team will provide more info on setting up for running dual TaskMan nodes.
 11. Restart TASKMAN with D RESTART^ZTMB. DSM sites this may require a privileged user.

2.84 XU*8*120 SEQ #113: NOIS Fixes

Category: Routine

2.84.1 Description

NOIS	Routine	Description
ISF-0699-00000 TAM-0899-30289	XTER1A	The fix to XTER1A for working with Mailman patch XM*7.1*50 broke printing. Fixed.
MON-0599-52241 TAM-0499-30489 MON-0599-52241	XUTMRP XUTMRP1	Under some conditions, the TaskMan Repoint Waiting task would error out. Also, some of the prompts were not meaningful, Fixed.
HARDHATS	XUTMDEVQ	A request to be able to return ZTSK. Added a 5th parameter to stop the newing of ZTSK. If the 5th parameter is missing or 0 then it will work as before, a 1 will prevent ZTSK from being newed.
FAV-0499-70417	ZTEDIT*	If the user has the ScreenMan editor as default then they get a UNDEF error. Fixed.
WPB-0599-32576 STX-0599-72647		The New Person file does not have a New User Bulletin. Added it back in
	XLFSTR	Updated function call \$\$TRIM^XLFSTR (x, "[L][R]")[,char]). This call will trim spaces or other char from the left, right, or both sides of a input string. W "["_\$\$TRIM^XLFSTR (" A B C ")_]" => [A B C] W "["_\$\$TRIM^XLFSTR ("//A B C//",,")_]" => [A B C]
ISL-0699-51707	XLFDT	The FMADD call would return 141301 if passed (0,0). This has been fixed.
Y2K testing	XLFDT3	The SCH^XLFDT did not handle Feb 29, 2000. This has been fixed.
MCM-1195-51777		Option XUERTRP CLEAN was not on the XUERRS menu. Linked up.

2.84.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XLFDT	4068329	4050775	**71,120**
XLFDT3	6320544	6415507	**71,120**
XLFSTR	2042372	1941897	**112,120**

Routine	Old	New	2nd Line
XTER1A	13449705	13096442	**63,112,120**
XUTMDEVQ	268897	294750	**20,120**
XUTMRP	15705216	15577050	**2,20,86,120**
XUTMRP1	7012212	7184681	**2,86,120**
ZTEDIT	11385452	11385452	**16,120**
ZTEDIT1	9783719	9783719	**16,120**
ZTEDIT2	12431351	12255678	**9,16,120**
ZTEDIT3	9890321	9327277	**16,120**
ZTEDIT4	4936626	4936626	**16,120**

List of preceding patches: 16, 71, 86, and 112.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFDT

Routine Checksum:

Routine Name: XLFSTR

Routine Checksum:

Routine Name: XTER1A

Routine Checksum:

Routine Name: XUTMDEVQ

Routine Checksum:

Routine Name: XUTMRP

Routine Checksum:

Routine Name: XUTMRP1

Routine Checksum:

Routine Name: ZTEDIT

Routine Checksum:

Routine Name: ZTEDIT1

Routine Checksum:

Routine Name: ZTEDIT2

Routine Checksum:

Routine Name: ZTEDIT3

Routine Checksum:

Routine Name: ZTEDIT4

Routine Checksum:

Routine Name: XLFDT3

Routine Checksum:

2.84.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. This patch can be loaded any non-peak time. Users can remain on the system.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*120'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account: ZTEDIT*
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO ^ZTEDIT
8. DSM Sites, after patch has installed, rebuild your map set.

2.85 XU*8*125 SEQ #114: More Alert Fixes

Category: Routine and Data Dictionary

2.85.1 Description

This patch contains fixes to alerts leftover by XU*8*123.

- SUBLOOP+4^XQALERT1 (undefined XQK) error resulting when the user selected delete alerts, then up-arrowed out without selecting any for deletion.
- In addition, menu options I and D are only listed if one or more info only alerts have been listed.
- Also, if alerts are selected for deletion which cannot be deleted, the comment that is shown is now "Unable to delete alerts which require action: 1,2,3,4,5,6,7,8,9,10" instead of simply "Unable to delete: 1,2,3,4,5,6,7,8,9, 10." We hope that this will clear up some misunderstandings of the delete functionality.
- The number of alerts shown on the screen has been modified so that when forwarded alerts with comments are included, the first alert shouldn't run off the screen.
- Cross-references "AXQA" and "AXQAN" were modified to use entire ID name instead of first 30 characters. This was causing problems when deleting. Post-Init routine XU8P125 will re-index the cross-references.
- Alerts get into an infinite sending loop if person "A" selects person "B" as a surrogate and person "B" already has person "A" as a surrogate. Checks were install to prevent any scenario where someone could end up getting into a loop.

2.85.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQALBUTL	4734926	4983080	**114,125**
XQALERT	5307017	5402974	**1,65,125**
XQALERT1	31224401	30892967	**20,65,114,123,125**
XQALSET	14779633	14823261	**1,6,65,75,114,125**
XQALSURO	5607165	7933100	**114,125**
XU8P125	New	167781	Post-Init

Routine Information

Routine Name: XQALBUTL

Routine Checksum:

Routine Name: XQALERT

Routine Checksum:

Routine Name: XQALERT1

Routine Checksum:

Routine Name: XQALSET

Routine Checksum:

Routine Name: XU8P125

Routine Checksum:

Routine Name: XQALSURO

Routine Checksum:

2.85.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*125
 - Logons DO NOT need to be inhibited.
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Options or Protocols that need to be placed out-of-order.

- XQALERT - View Alerts
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
 7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

2.86 XU*8*128 SEQ #115: Alert Fixes for MM

Category: Routine

2.86.1 Description

This patch corrects temporary global structures for use with MailMan patch #50. This patch was reported and tested by Detroit VAMC.

2.86.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQALDOIT	10091815	10108971	**1,6,65,114,128**
XQALFWD	10666938	10734332	**6,65,91,111,114,128**

Routine Information

Routine Name: XQALDOIT

Routine Checksum:

Routine Name: XQALFWD

Routine Checksum:

2.86.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.

3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*128
 - Logons DO NOT need to be inhibited.
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Options or Protocols that need to be placed out-of-order.
 - XQALERT - View Alerts
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

2.87 XU*8*129 SEQ #116: Alert Fixes

Associated patches: (v)XU*8*128 (must be installed BEFORE `XU*8*129')

Category: Routine

2.87.1 Description

This patch's Y2K exemption number is: Y2KWE006

This patch corrects temporary global structures that were inadvertently missed in patch XU*8*128. This should correct problems reported when attempting to print an alert.

NOIS's: BRX-1099-11801, SAG-1099-42242, SLC-1099-52155, WAS-1099-21947, ALT-1099-22336, HOU-1099-72761.

2.87.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQALDOIT	10108971	10115633	**1,6,65,114,128,129**
XQALFWD	10734332	10746790	**6,65,91,111,114,128,129**

Routine Information

Routine Name: XQALDOIT

Routine Checksum:

Routine Name: XQALFWD

Routine Checksum:

2.87.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install

- Install Package(s)
 - Select INSTALL NAME: XU*8.0*129
 - Logons DO NOT need to be inhibited.
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Options or Protocols that need to be placed out-of-order.
 - XQALERT - View Alerts
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
 7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

2.88 XU*8*127 SEQ #117: TaskMan Speedup

Category: Routine

2.88.1 Description

NOIS	Routine	Description
MAR-1099-21847 TAM-1099-31772 STL-1099-40458 NTH-0999-72794 MAR-1099-23207 SDC-1099-60815 WRJ-0899-13025 STX-1099-72163		This patch should address the performance problems in TaskMan caused by patch XU*8*118.
SHR-1099-71855 CON-0999-12912 WRJ-0999-12571 BED-0999-12380	ZISUTL	The UNDEF in %ZIS5 has been fixed.
HIN-1099-41741	ZTMGRSET	Updated the list of OS types to show VAX DSV(V7) and Cache.
	ZIS6	Add the task time and \$H to the slot data.
	ZISTCPS	Has a fix for a change in Cache between 2.1.6 and 3.1
	XUTMKA	New, to look for devices that are having problems.

2.88.2 Routines

The following routines are included in this patch. The second line of each of these

routines now looks like: ;:8.0;KERNEL;<patchlist>;

Checksum

Routine	Old	New	2nd Line
XUTMKA		1312470	**127**
XUTMOPT	3961784	4026913	**2,111,112,118,127**
ZIS6	9023565	9115588	**24,49,69,118,127**
ZISTCPS	1103406	1115181	**78,118,127**
ZISUTL	2273417	2307058	**18,24,34,69,118,127**
ZTLOAD	1773483	1559971	**67,118,127**
ZTLOAD1	6704108	6808427	**112,118,127**
ZTLOAD3	3918318	3910561	**67,127**
ZTM	7928004	8571416	**24,36,64,67,118,127**
ZTM0	6113151	6026624	**42,36,67,88,118,127**
ZTM1	5627291	5465675	**118,127**
ZTM4	2321835	2164226	**1,118,127**
ZTM5	3223273	4063072	**24,36,118,127**
ZTM6	1943469	2656166	**23,118,127**
ZTMCHK1	6522196	6595933	**127**
ZTMGRSET	14310699	14239565	**34,36,69,94,121,127**
ZTMKU	8280155	8841182	**118,127**
ZTMON	4340327	4458377	**118,127**
ZTMON1	7653545	9616420	**36,118,127**
ZTMS	5545783	5576536	**2,18,24,36,67,94,118,127**
ZTMS1	8217798	8021013	**36,49,104,118,127**
ZTMS2	5746563	5847661	**2,18,23,36,67,118,127**
ZTMS3	9711469	9841850	**1,18,36,49,64,67,94,118,127**
ZTMS7	1489086	1828513	**1,118,127**

List of preceding patches: 118 and 121

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZISTCPS

Routine Checksum:

Routine Name: ZISUTL

Routine Checksum:

Routine Name: ZTLOAD1

Routine Checksum:

Routine Name: ZTLOAD3

Routine Checksum:

Routine Name: ZTM

Routine Checksum:
Routine Name: ZTM1
Routine Checksum:
Routine Name: ZTM4
Routine Checksum:
Routine Name: ZTM5
Routine Checksum:
Routine Name: ZTMKU
Routine Checksum:
Routine Name: ZTMON
Routine Checksum:
Routine Name: ZTMON1
Routine Checksum:
Routine Name: ZTMS
Routine Checksum:
Routine Name: ZTMS1
Routine Checksum:
Routine Name: ZTMS2
Routine Checksum:
Routine Name: ZTMS3
Routine Checksum:
Routine Name: ZTMS7
Routine Checksum:
Routine Name: ZTMCHK1
Routine Checksum:
Routine Name: ZIS6
Routine Checksum:
Routine Name: ZTM6
Routine Checksum:
Routine Name: ZTMGRSET
Routine Checksum:
Routine Name: XUTMOPT
Routine Checksum:
Routine Name: XUTMKA
Routine Checksum:
Routine Name: ZTLOAD
Routine Checksum:
Routine Name: ZTM0

Routine Checksum:

2.88.3 Installation

Note: Users can remain on the system. Stop TaskMan.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system.
 - Stop TaskMan, and have submanagers stop, STOP other background filers.
 - "DO STOP^ZTMKU"
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*127'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move several routines from your production account to each manager account:

ZIS6
ZISTCPS
ZISUTL
ZTLOAD
ZTLOAD1
ZTLOAD3
ZTM
ZTM0
ZTM1
ZTM4
ZTM5
ZTM6
ZTMGRSET
ZTMKU
ZTMON
ZTMON1
ZTMS
ZTMS1
ZTMS2
ZTMS3
ZTMS7

7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 127
8. DSM Sites, after patch has installed, rebuild your map set.
9. Restart TaskMan with D RESTART^ZTMB. DSM sites this may require a privileged user.
10. Add a Mail Group to the bulletin "XUTM PROBLEM DEVICE". Schedule the option "XUTM QPROBLEM DEVICE" once a day.

2.89 XU*8*133 SEQ #118: Renewed Alerts Not Reappearing

Category: Data Dictionary

2.89.1 Description

CTX-1099-72732, DAN-1099-40868. Waiver Exemption ID#: Y2KWE0019.

Renewed Alerts Not Reappearing. When sites renew alerts they are disappearing.

The following Data Dictionary has been revised to correct this problem:

- ^DD(8992.1,.01
- ^DD(8992.1,.03
- ^DD(8992.01,.02

2.89.2 Routines

No Routine Information

2.89.3 Installation Instruction

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch can be loaded any non-peak time.
4. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*133'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.90 XU*8*131 SEQ #119: KIDS Fixes for HL7

Category: Routine

2.90.1 Description

Y2K Waiver Request ID#: Y2KW0001 Y2K Waiver Status: Approved.

This patch may be installed during the Y2K Moratorium, but it should be installed before 12/15/99 or after 1/15/2000.

KIDS routines have been modified to support patch HL*1.6*57. Patch 57 added a new field multiple, 'Subscriber', to the Protocol file, #101. Also, the HL Lower Level

Protocol Parameter file, #869.2, was merged into the HL Logical Link file, #870.

2.90.2 Routines

Checksums obtained using CHECK^XTSUMBLD.

The second line of the routine now looks like:

```
;;8.0;KERNEL;*[patch list]*;Jul 10, 1995
```

Routine	Before Checksum	After Checksum	Patch List
XPDE	15253053	15204188	**2,15,21,44,51,68,131**
XPDIA	13299802	14296891	**10,15,21,28,44,58,68,131**
XPDIA0	NEW	2357876	**131**
XPDIA1	9001554	10621758	**2,44,51,58,68,85,131**
XPDIA2	6372331	6756887	**68,131**
XPDTA	7580607	8868649	**15,44,58,131**
XPDTA1	5005398	4715012	**44,68,85,131**
XPDTC	13724075	13813303	**10,15,21,39,41,44,58,83,92,95,100,108,124,131**

Routine Information

Routine Name: XPDE
Routine Checksum:

Routine Name: XPDIA
Routine Checksum:

Routine Name: XPDIA0
Routine Checksum:

Routine Name: XPDIA1
Routine Checksum:

Routine Name: XPDIA2
Routine Checksum:

Routine Name: XPDTA
Routine Checksum:

Routine Name: XPDTA1
Routine Checksum:

Routine Name: XPDTC
Routine Checksum:

2.90.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS Distribution onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the patch in the Transport global.
4. Users can remain on the system. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. As with the installation of all Kernel patches, it is recommended that you return to programmers prompt and use D ^XPDKRN:
 - Install Package(s)
 - INSTALL NAME: XU*8.0*131
7. AXP Sites, after patch has installed, rebuild your map set.

2.91 XU*8*135 SEQ #120: New RAI/MDS File and New Triggers in #200

Category: Data Dictionary

2.91.1 Description

Y2K Waiver Request ID#:Y2KW0001 Y2K Waiver Status: Approved.

This patch may be installed during the Y2K Moratorium, after 1/15/2000.

E3R - 12385.

In support of MailMan patch XM*7.1*107, this patch adds a new whole file cross reference ("AH", on the DIVISION field) to the New Person file, to enable limited broadcast messages by division.

Whenever a name is changed or added in the New Person file, it is necessary to transmit the new name to the Accu-Max system via HL7 Messaging. Routines will

routinely check for the existence of ^DGRU(46.11,"AC") node. For those entries which exist, a Master File Update("MFU") HL7 Message will be created and sent to the Accu-Max system if they have a "Physician" class. Several new cross-references are being added to the Name and Provider Class fields of file #200. These new cross-references will trigger the data into the RAI/MDS Monitor file(#46.11).

MON-0899-52735.

When using the Deactivate a User option [XUSERDEACT], a prompt will display to "Delete All Mail Access:". When cursor is set to the field to respond the system shows that the user has 0 messages in their mail box or group even though there are messages. Routine XUSTERM and XUSRB1 has been revised to correct this problem.

ISL-1199-51331.

To allow CPRS Notification users the ability to identify users and/or OE/RR teams, the DEVICE file #3.5, will be added to the Parameter Entity file #8989.518. A new routine(^XUYDEV) has been created to allow entry of the Device into file #8989.518. When patch has completed loading, proceed with the following steps:

1. From Programmer Mode, execute the following routine:
2. >D ^XUYDEV
3. The routine will display:

```

The Following Data Has Been Added To File #8989.518
=====
DEVICE
DEV
Device
Press the return key to continue or '^' to exit:

```

Figure 2-7: New RAI/MDS File and New Triggers in #200

2.91.2 Routines

The following routine(s) are included in this patch.

The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;*[Patch List]**;11/26/99
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XU8P135	NEW	380717	**135**
XUYDEV	NEW	903293	**135**

Routine	Checksum Before	Checksum After	Patch List
XUSTERM	14376497	13878375	**36,73,135**
XUSRB1	10103967	10106207	**28,82,135**

Routine Information

Routine Name: XUYDEV
 Routine Checksum:

Routine Name: XUSTERM
 Routine Checksum:

Routine Name: XUSRB1
 Routine Checksum:

2.91.3 Installation Instruction

1. Users are allowed to be on the system during the installation. This patch should be loaded during non-peak times.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*135'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.92 XU*8*140 SEQ #121: Erroneous Date Displayed for Last Sign-on Date

Category: Routine

2.92.1 Description

Y2K Waiver Request ID#: Y2KW0001 Y2K Waiver Status: Approved this patch may be installed during the Y2K Moratorium, after 1/15/2000.

BRX-1197-11294.

When using the 'Option Access By User' option and a user has not previously logged on to the system, the Last on date is displayed erroneously. Routine XQ55 have been revised to display a null last on date, should last on date for a user contain a blank date and time.

2.92.2 Routines

The following routine(s) are included in this patch.

The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;*[Patch List]**;09/20/96
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQ55	10774418	10830712	140

2.92.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routine are NOT in your mapped routine set before proceeding and rebuild your map set afterwards before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. You Do Not need to stop TaskMan or the background filers. (AXP Sites - Place TaskMan in a WAIT state. OpenM/Cache Sites - STOP TaskMan.)
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

- Install Package(s)
 - INSTALL NAME: XU*8.0*140
 - Want KIDS to Inhibit Logons during the install? YES// NO
 - Want to disable Scheduled Options, Menu Options, and Protocols? YES// NO
- 6. AXP Sites - Answer NO to the "Want to MOVE routines to other CPUs?" question
- 7. If the routines were unmapped, the mapped set should be rebuilt once the installation has run to completion.
- 8. AXP and OpenM/Cache Sites Only - Remove TaskMan from a WAIT/STOP state.

2.93 XU*8*141 SEQ #122: TaskMan Schedule Leap Year Fix

Category: Routine

2.93.1 Description

While investigating NOIS DAY-0200-40034, a leap year problem was found in SCH^XLFDT that affects tasks scheduled for the last day of the month. TaskMan uses this routine to evaluate the RESCHEDULING FREQUENCY field in the Option Scheduling file.

This patch also fixes a looping problem which occurs if the schedule requests a day beyond the end of the month (i.e. the 30th of each month for February or the 31st of April). After the patch, it will now default to the end of the month. This would make a schedule of "1M(30@2200)" for February be evaluated as "1M(1@2200)".

Sites should use the following to see if any tasks are affected by evaluating the Queued to Run at what Time field to see if it is appropriate for the task. Look for task that should have been scheduled for Feb 29,2000.

```
Select OPTION: PRINT FILE ENTRIES

OUTPUT FROM WHAT FILE: // 19.2  OPTION SCHEDULING
                        (13 entries)
SORT BY: NUMBER// 2  QUEUED TO RUN AT WHAT TIME
START WITH QUEUED TO RUN AT WHAT TIME: FIRST// FEB 15,2000  (FEB 15, 2000)
GO TO QUEUED TO RUN AT WHAT TIME: LAST// MAR 1,2000  (MAR 01, 2000@24:00)
  WITHIN QUEUED TO RUN AT WHAT TIME, SORT BY:
                        FIRST PRINT FIELD: .01  NAME
THEN PRINT FIELD: 2;L19  QUEUED TO RUN AT WHAT TIME
THEN PRINT FIELD: 6;L20  RESCHEDULING FREQUENCY
THEN PRINT FIELD:

*****
Heading (S/C): OPTION SCHEDULING LIST  Replace
STORE PRINT LOGIC IN TEMPLATE:
START AT PAGE: 1//
```

```

DEVICE:    SYSTEM

...SORRY, HOLD ON...

OPTION SCHEDULING LIST                                FEB  9,2000 12:44    PAGE 1
NAME        QUEUED TO RUN AT    RESCHEDULING
            WHAT TIME           FREQUENCY
-----
JOES SPECIAL        FEB 28,2000 22:00    1M(L@2200)
XUTM PROBLEM DEVICES    FEB 28,2000 21:00    1M(15@2100,L@2100)

```

Figure 2-8: Fixing TaskMan for the leap year

2.93.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksums

Routine	Old	New	2nd Line
XLFD2	3530137	3576737	**71,86,141**
XLFD3	6415507	5174266	**71,120,141**

List of preceding patches: 86 and 120.

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFD2

Routine Checksum:

Routine Name: XLFD3

Routine Checksum:

2.93.3 Installation Instructions

1. Users are allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
4. You DO NOT need to stop TaskMan or the Background Filers.

5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

Note: Users can remain on the system. This patch can be loaded any non-peak time.

6. On the KIDS menu, under the 'Installation' menu, use the following option:
Install Package(s) 'XU*8.0*141'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. DSM Sites, after patch has installed, rebuild your map set.

2.94 XU*8*137 SEQ #123: KIDS fixes for FM & HL7, MM X-ref, State File

Category: Routine, Data Dictionary

2.94.1 Description

This patch fixes KID's routine so as to accept namespaces that contain numerics in addition to alpha characters (i.e. A4A7). The parsing algorithm was modified for writing the Patch Application History (PAH) section because of problems that existed when the patch number could be a matching subset of the version number (i.e. patch 2 or 22 for FM v22.0).

- A post-init routine will \$ORDER the PAH to clean-up any that have erroneous data.
- KIDs fix for managing HL7 elements.
- X-ref added to New Person file, field #29 (Service/Section) for MailMan.
- Remove bogus x-ref's on the State file that cause errors in FM v22 when all index's are being use in a search.
- The Post-Init routine contains three sections. One that will clean-up the STATE files x-ref's that are resulting in errors under FM v22. One that will clean-up the PAH. And one that will index the new x-ref on the New Person file.

2.94.2 Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDET	5059212	5243684	15,39,41,44,51,58,66,137
XPDIP	9539699	9530126	15,21...100,108,137
XPDUTL	2995571	2998458	21,28,39,81,100,108,137
XU8P137	New	2416025	KID's Post-Init

List of preceding patches: 66, 108

Routine Information:

Routine Name: XPDIP

Routine Checksum:

Routine Name: XPDUTL

Routine Checksum:

Routine Name: XPDET

Routine Checksum:

2.94.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System

- Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*137
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.95 XU*8*130 SEQ #124: XQ5 Defaults and RPC Broker-Type

Category: Routine

2.95.1 Description

MWV-0997-20795

When setting defaults to a print type option, then accessing the option thru an Edit option. The Edit option overwrites any defaults that were previously set, should a template be selected. The routine XQ5 has been revised to display to user a list of current defaults. In addition, input template XUEDITOPT has been revised to allow Broker type options to prompt for the RPCKEY and RULES fields.

2.95.2 Routines

The following routine(s) are included in this patch.

The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;*[Patch List]**;09/20/96
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQ5	13875754	16372838	44,130

Routine Information

Routine Name: XQ5

Routine Checksum:

2.95.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. You Do Not need to stop TaskMan or the background filers.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*130
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
6. AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. If the routines were unmapped, the mapped set should be rebuilt once the installation has run to completion.

2.96 XU*8*122 SEQ #125: RUM Update

Category: Routine

2.96.1 Description

Note: This install contains 2 patches: XU*8.0*122 and KMPR*1.0*1 because of the tight integration of these patches they are being released together. This message contains only the instructions for installation. The routines are located in kids file 'xu_8_122.kid'.

This file contains two patches, XU*8.0*122, KMPR*1.0*1

This patch contains the following updates:

- Routine %ZOSVKR now obtains actual days/hours of RUM data for each node.
- Routine %ZOSVKR now checks to make sure it is being executed from the production account (^%ZOSV("PROD")). There were occasions when %ZOSVKR was called from within the manager account, causing an error. (Reported by Tampa).
- Occasionally the date would equal zero. This has been fixed.
- Possible negative numbers for M COMMANDS has been fixed.
- Under certain circumstances file 8971.1 (Resource Usage monitor) would be left with more than 2 weeks of data after the Sunday purge. This has been corrected. (Reported by Washington).
- Having an entry in the Special Queuing field of the Option Scheduling file (#19.2) could cause problems. A post-install routine removes any entries in this field for option 'RUM Background Driver [KMPR Background driver]'. (Reported by Dayton).
- Option 'Status of RUM Collection [KMPR Status Collection]' now displays the installed patch numbers (if any) below the Version.
- RUM version and patch information are now returned with each weekly update.

2.96.2 Routines

Checksum

Routine	Old	New	2nd line
KMPRBD01	2657445	3125663	**1**
KMPRBD02	7968846	7806256	**1**
KMPRPOST	New	339091	**1**
KMPRSS	6385084	6447598	**1**
KMPRUTL	4367084	4452862	**1**
KMPRUTL1	3346667	3328402	**1**
KMPRUTL3	New	3796957	**1**

Routine	Old	New	2nd line
ZOSVKRM	217494	217494	**90,94,107,122**
ZOSVKRO	217494	217494	**90,94,107,122**
ZOSVKRV	5456477	5750377	**90,94,107,122**

2.96.3 Installation Instructions

Installation instructions follow:

Note: All sites should install this patch. However, only DSM sites should turn RUM on at this time. A future patch will address other Operating Systems.

1. Turn RUM off.
2. You need to use KIDS to install this patch. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Load a Distribution
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch should be loaded at a non-peak time. If the possibility of a few <NOSOURCE> errors is acceptable then installation can take place immediately after turning RUM off. Otherwise it is recommended that RUM be turned off for 2 hours before patch installation.
4. This patch should NOT be installed while the RUM Background Driver [KMPR BACKGROUND DRIVER] option is running (this job is queued to run every day, usually at 1 a.m.).
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*122'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch, OpenM Sites - you don't need to move anything, skip this step. DSM/MSM sites - you need to move the following routines from your production account to each manager account:
 - ZOSVKRM
 - ZOSVKRO

- ZOSVKRV
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 122
 8. Turn RUM back on (DSM sites only).

Example of a typical install follows:

```

Select OPTION NAME: KMPR RUM MANAGER MENU          RUM Manager Menu menu
CAPACITY MANAGEMENT - RUM

                                * Resource Usage Monitor 1.0 *

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STA  Status of RUM Collection
                                Resource Usage Monitor Status
                                Version 1.0

The Resource Usage Monitor is currently running.

The 'RUM Background Driver' [KMPR BACKGROUND DRIVER] is scheduled
to run on Oct 06, 1999@01:00 every 1 day.

The temporary collection global (i.e., 'XTMP("KMPR")') is present
on your system.

Press <RETURN> to continue:

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STOP RUM Collection

Do you want to stop Resource Usage Monitor collection? YES//

Resource Usage Monitor collection is stopped.

Select OPTION NAME: XPD MAIN          Kernel Installation & Distribution
System menu      KIDS

Edits and Distribution ...
Utilities ...
Installation ...
Select Kernel Installation & Distribution System Option: INstallation

```

```

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution

Select Installation Option: LOAD a Distribution
Enter a Host File: XU_8_122.KID

KIDS Distribution saved on Oct 05, 1999@08:41:52
Comment: PATCHES XU*8.0*122 AND KMPR*1.0*1

This Distribution contains Transport Globals for the following Package(s):
  XU*8.0*122
  KMPR*1.0*1

Want to Continue with Load? YES//
Loading Distribution...

  XU*8.0*122
  KMPR*1.0*1
Use INSTALL NAME: XU*8.0*122 to install this Distribution.

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution
Enter RETURN to continue or '^' to exit:

Select Installation Option: VERify Checksums in Transport Global
Select INSTALL NAME: XU*8.0*122 Loaded from Distribution
12/10/99@09:07:10
  => PATCHES XU*8.0*122, KMPR*1.0*1 ;Created on Dec 10, 1999@09:05:48

This Distribution was loaded on Dec 10, 1999@09:07:10 with header of
  PATCHES XU*8.0*122, KMPR*1.0*1 ;Created on Dec 10, 1999@09:05:48
It consisted of the following Install(s):
  XU*8.0*122      KMPR*1.0*1
DEVICE: HOME//   TELNET DEVICE

PACKAGE: XU*8.0*122      Dec 10, 1999 9:07 am      PAGE 1
-----

3 Routine checked, 0 failed.
PACKAGE: KMPR*1.0*1      Dec 10, 1999 9:07 am      PAGE 1
-----

7 Routine checked, 0 failed.

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global

```

```

6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution

Select Installation Option: BACKup a Transport Global
Select INSTALL NAME:      XU*8.0*122      Loaded from Distribution
11/30/99@14:46: 36
      => XU*8.0*122, KMPR*1.0*1 ;Created on Nov 30, 1999@13:16:26

This Distribution was loaded on Nov 30, 1999@14:46:36 with header of
XU*8.0*122, KMPR*1.0*1 ;Created on Nov 30, 1999@13:16:26
It consisted of the following Install(s):
      XU*8.0*122      KMPR*1.0*1
Subject: Backup of XU*8.0*122 install on Nov 30, 1999
Replace
Loading Routines for XU*8.0*122...
Loading Routines for KMPR*1.0*1....
Send mail to: KAMAROWSKI,ROBERT A. Replace KAMAROWSKI,ROBERT A.
Select basket to send to: IN//
And Send to:

Select Installation Option: INstall Package(s)
Select INSTALL NAME: XU*8.0*122      Loaded from Distribution
10/5/99@08:42:50
      => PATCHES XU*8.0*122 AND KMPR*1.0*1 ;Created on Oct 05,
1999@08:41:52

This Distribution was loaded on Oct 05, 1999@08:42:50 with header of
PATCHES XU*8.0*122 AND KMPR*1.0*1 ;Created on Oct 05, 1999@08:41:52
It consisted of the following Install(s):
XU*8.0*122
KMPR*1.0*1

      XU*8.0*122

Install Questions for XU*8.0*122

      KMPR*1.0*1

Install Questions for KMPR*1.0*1

Want KIDS to INHIBIT LOGONS during the install? YES// NO
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// 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: HOME//      TELNET DEVICE

Install Started for XU*8.0*122 :
      Oct 05, 1999@08:43:38

Installing Routines:
      Oct 05, 1999@08:43:38

Updating Routine file...

Updating KIDS files...

XU*8.0*122 Installed.
      Oct 05, 1999@08:43:39

```

```

                                KMPR*1.0*1
-----
Install Message sent #2723

Install Started for KMPR*1.0*1 :
      Oct 05, 1999@08:43:39

Installing Routines:
      Oct 05, 1999@08:43:41

Running Post-Install Routine: EN^KMPRPOST
Updating Routine file...

Updating KIDS files...

KMPR*1.0*1 Installed.
      Oct 05, 1999@08:43:41

Install Message sent #2724
-----
  100%  |                25                50                75                |
Complete +-----+
Install Completed

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
      Restart Install of Package(s)
      Unload a Distribution

Select Installation Option:
Cancel %DSM-E-CTLG, control C typed
%DSM-I-ATLABEL, ASK+1^XQ:3      W !,XQAA R XQUR:DTIME I '$T Q:$D(XQALEXIT)
W *7 ," Timed out...." G CON^XQTOC

VAH,TST> D ^%RS
Routine Save

Output Device ? > ZOSVKRMGR.RTN
Header comment... ZOSVKR* ROUTINES FOR MGR

routine(s) ? > ZOSVKR*
searching directory ...
routine(s) ? > ^L

ZOSVKRM  ZOSVKRO  ZOSVKRV

routine(s) ? >

Saving routines on USER$:[PROGRAMMER.KAMAROWSKI]ZOSVKRMGR.RTN;2

ZOSVKRM  ZOSVKRO  ZOSVKRV

```

```

      3 routines saved

Output Device ? >
VAH,TST>
VAH,TST> D ^%ZUCI

What UCI: MGR
YOU'RE IN UCI: MGR,TST

MGR,TST> D ^%RR

Routine Restore

Input Device ? > ZOSVKRMGR.RTN

Restoring routines from USER$:[PROGRAMMER.KAMAROWSKI]ZOSVKRMGR.RTN;2

Saved by %RS from [VAH,TST] on 5-OCT-1999 08:44:22.02
Header: ZOSVKR* ROUTINES FOR MGR

Restore All (A), Selected (S), or Confirm on overwrite (C) ? <A>

ZOSVKRM   ZOSVKRO   ZOSVKRV

      3 routines restored

Input Device ? >
MGR,TST>
MGR,TST>
MGR,TST> D RELOAD^ZTMGRSET

ZTMGRSET Version 8.0 **34,36,69,94,121**
HELLO! I exist to assist you in correctly initializing the MGR account
or to update the current account.
I think you are using VAX DSM(V6)
Which MUMPS system should I install?
1 = VAX DSM(V6)
2 = MSM-PC/PLUS
3 = OpenM for NT
4 = Datatree,DTM-PC,DT-MAX
5 = MVX,ISM VAX
6 = ISM (UNIX, Open VMS)
System: 1// <-- Enter the appropriate number for your facility -->

Patch number to load: 122

I will now rename a group of routines specific to your operating system.
Routine: ZOSVVXD
Routine: ZTBKCVXD
Routine: ZIS4VXD
Routine: ZISFVXD
Routine: ZISHVXD
Routine: XUCIVXD
Routine: ZISFVXD
Routine: ZOSV1VXD
Routine: ZOSV2VXD
Routine: ZTMDCL
Routine: ZOSVKRV           Loaded, Saved as %ZOSVKR
Routine: ZOSVKSVE

```

```

Routine: ZOSVKSVS
Routine: ZOSVKSD

Now to load routines common to all systems.
Routine: ZTLOAD
Routine: ZTLOAD1
...
Routine: ZTMOVE
Installing ^%Z editor
ALL DONE
MGR,TST> D ^%ZUCI

What UCI: VAH
YOU'RE IN UCI: VAH,TST

Select OPTION NAME: KMPR RUM MANAGER MENU          RUM Manager Menu m enu
CAPACITY MANAGEMENT - RUM

                                * Resource Usage Monitor 1.0 *

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STR Start RUM Collection

Do you want to start Resource Usage Monitor collection? YES//

Resource Usage Monitor collection is started.

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STA Status of RUM Collection

                                Resource Usage Monitor Status
                                Version 1.0

The Resource Usage Monitor is currently running.

The 'RUM Background Driver' [KMPR BACKGROUND DRIVER] is scheduled
to run on Oct 06, 1999@01:00 every 1 day.

The temporary collection global (i.e., 'XTMP("KMPR")') is present
on your system.

Press <RETURN> to continue:

```

2.97 XU*8*144 SEQ #126: KIDS Fixes for HL7

Category: Routine

2.97.1 Description

This patch fixes syntax problems discovered in routine XPDIA0. Newly created lines that processed nodes 775 & 10 were not getting executed due to double dots in a single do-dot structure. Control was failing through and the old code (only node 10) was being processed. Corrected the do-dot block and removed the old code.

2.97.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDIA0	2357876	2165490	**131,144**

List of preceding patches: 131

Routine Information

Routine Name: XPDIA0

Routine Checksum:

2.97.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":

- Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*144
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
 8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.98 XU*8*106 SEQ #127: Person File Update

Category: Data Dictionary

2.98.1 Description

Note: After completing the patch installation you must run "MANUAL^XUINPCH2" to remap Person Class entries that no longer exist.

The Person Class file has been mapped in accordance with the Health Care Financing Administration (HCFA) provider taxonomy. To comply with this requirement, all VISTA providers will need to be updated in the Person Class file as identified by the approved X12N taxonomy.

Background Information:

The Insurance Subcommittee of the American National Standards Institute, Accredited Standards Committee X12 was tasked with creating an all-encompassing Provider Classification System, which would impact how provider information is being reported. The X12N Task Group 2 Workgroup 15 and the HCFA National Provider System (NPS) Workgroup commenced work on identifying and coding an external provider table, which would codify provider type and provider area of specialization for all medical related providers. . The proposed hierarchy focused on classifying the providers into aggregate groupings around services, provider types, and areas of specialization or focus. The taxonomy represents a one-to-many relationship to the individual provider (many occurrences of the taxonomy may apply to a single entity/provider). The proposed hierarchy of provider categories incorporates four areas of provider classifications that, when used in concert with one another, create the capability to sort providers into broad and specific categories. The hierarchy is: *Provider Type (2 byte alphanumeric) * Classification Code (2 byte alphanumeric) * Area of Specialization (5 byte alphanumeric) * Training/Education Requirement Indicator (1 byte alphanumeric).

2.98.2 Routines

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XUINPCH2	New	3930980	KID's Post-Init

Routine Information

Routine Name: XUINPCH2

Routine Checksum:

2.98.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system. You DO NOT need to put TASKMAN in a wait state.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch can be loaded during any non-peak time.
4. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*106'
 - Logins DO NOT need to be restricted.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
5. After the install there is a part of the conversion that must be done by a user. Now "D MANUAL^XUINPCH2" to convert the ones that need user input.

2.99 XU*8*134 SEQ #128: New Person Name Standardization

Associated patches:

(v)A4A7*1.01*11	must be installed BEFORE `XU*8*134'
(v)DI*22*1	must be installed BEFORE `XU*8*134'

(v)DI*22*4	must be installed BEFORE `XU*8*134'
(v)DI*22*12	must be installed BEFORE `XU*8*134'
(v)DI*22*16	must be installed BEFORE `XU*8*134'
(v)DI*22*17	must be installed BEFORE `XU*8*134'
(v)XU*8*135	must be installed BEFORE `XU*8*134'
(v)DI*22*20	must be installed BEFORE `XU*8*134'
(v)DI*22*21	must be installed BEFORE `XU*8*134'
(v)XU*8*137	must be installed BEFORE `XU*8*134'
(v)DI*22*29	must be installed BEFORE `XU*8*134'

Category: Data Dictionary, Routine, Input Template

2.99.1 Description

Note: The New Person Name Conversion is run automatically as part of the POST-INSTALL ROUTINE (POST^XLFNAME) of this patch. See POST^XLFNAME New Person Name Conversion below for details. It is important that you read this patch description and follow the installation instructions.

Background

The Veterans Health Administration (VHA) does not enforce a uniform procedure for recording names of persons in VISTA. This has led to duplicate entries for individuals within systems and problems in matching records across systems. Name suffixes (Jr., III etc.) have added to the problems.

Purpose

The main impetus of this project is to support the National Provider Index (NPI) project that will assign a national number to every provider who provides service to the Department of Veterans Affairs. It is necessary to define a standard way for names to be entered into the Name field (#.01) of the New Person file (#200). This will help in uniquely defining all providers in the file. Another benefit to this project will be the ability to uniquely identify computer users across various VA facilities. This will become especially important as the facilities do more data sharing, and as more computer users have access to data on computers across multiple facilities. It will also be a major step towards supporting data exchange with COTS/GOTS products that rely on a more detailed definition of person names via HL7 segments.

Brief Description

This patch does the following:

- Changes the definition of the .01 field of the NEW PERSON file (#200).

- Automatically runs the New Person Name Conversion as part of the Post-Install Routine (POST^XLFNAME). The conversion standardizes the names in the .01 field of the New Person file and parses the names into their component parts. (See "POST^XLFNAME: New Person Name Conversion" below for details.)
- Introduces a file called the NAME COMPONENTS file (#20) to store the component parts of names.
- Adds a pointer field to the NEW PERSON file to point to the Name Components file. The new field is Name Components (#10.1).
- Introduces new Kernel API's useful for standardizing names in any file. Also introduces new Kernel APIs and a FUNCTION to display names in various formats.

Details

POST^XLFNAME: New Person Name Conversion

The New Person Name Conversion is run as part of the Post-Install routine (POST^XLFNAME) of this patch. POST^XLFNAME loops through the entries in the NEW PERSON file and:

1. Converts the name stored in the Name field (#.01) to the following standard form, if it is not already in standard form:

```
Family_name,Given_name<space>Middle_name<space>Suffix
```

In forming the standard name, the conversion routine makes the following changes to each name:

- a. Removes any text within parentheses (), brackets [], or braces {}. (If any such text is deleted, the original name with the parenthetical text is stored in the Notes About Name field in the Name Components file. After the conversion, you can use the search utility of VA FileMan to print out those entries in the Name Components file where Notes About Name is not null. See the VA FileMan Getting Started manual for more information on VA FileMan's Search utility.)
- b. Converts the name to uppercase.
- c. Moves any suffixes found between two commas immediately after the Family Name to the end of the name.
- d. In the Family Name (the portion to the left of the first comma):
 - Converts colons (:) and semicolons (;) to hyphens (-).
 - Removes spaces and all other punctuation except hyphens.
- e. In the other name parts (the portion to the right of the first comma):
- f. Converts colons, semicolons, commas (,), and periods (.) to spaces.

- g. Removes all punctuation except hyphens and spaces.
- h. Removes hyphens and spaces at the beginning and end of the name.
- i. Replaces two or more consecutive hyphens or spaces with a single hyphen or space.
- j. Converts Arabic numeral birth position suffixes 1ST, 2ND, 3RD...10TH to their Roman numeral equivalents I, II, III, ..., X.
- k. Moves any suffixes immediately to the left of the first comma to the end of the name, before any suffixes already at the end of the name.
- l. Moves DR to the end of the name if it is found immediately to the right of the first comma.
- m. Removes the string "NMI" or "NMN" if it is used as the middle name.
- n. If the length of the resulting standard name is greater than the maximum length (35) allowed by the input transform of the Name field, the following algorithm is performed to shorten the name:
 - Truncate Middle Name from the right-most position until only the initial character is left.
 - Drop Suffix
 - Truncate Given Name from the right-most position until only the initial character is left;
 - Truncate Family Name from the right-most position.

Note: that since the standard form of the name is never longer than the name being converted; this truncation would only occur if the name stored in the .01 field is already greater than 35 characters. This is unlikely, since the input transform restricts the name to 35 characters.

2. Parses the name into its component parts: Family (Last) Name, Given (First) Name(s), Middle Name, and Suffix(es). Those name parts are then stored in a new Name Components file (#20) brought in with this patch.

In parsing the name into its component parts, the New Person Name Conversion looks for Suffixes immediately to the left of the first comma, and at the very end of the name. It also looks for the DR suffix immediately after the first comma and looks for any suffix between two commas immediately after the Family Name. The portion of the name to the left of the comma, less any Suffixes, is assumed to be the Family Name.

After the conversion routine accounts for all Suffixes, it looks at the portion of the name after the comma. It assumes that the first space-delimited piece is the Given Name. If any other pieces are left, the last one (rightmost) is assumed to be the Middle Name, and anything else is appended to the end of the Given Name.

3. Makes the following changes to the name components before they are stored in the NAME COMPONENTS file:
 - a. Converts the name component to uppercase.
 - b. In the Family Name, converts semicolons (;) and colons (:) to hyphens (-).
 - c. In the other name parts (Given Name, Middle Name, and Suffix), converts semicolons, colons, and commas (,) to spaces.
 - d. Removes hyphens and spaces at the beginning and end of the name.
 - e. Replaces two or more consecutive hyphens/spaces with a single hyphen/space.
 - f. Removes spaces after periods.
 - g. Removes accent graves (˘) and up-arrows (^).
4. Establishes a pointer from each entry in the New Person file to the corresponding entry in the Name Components file that contains the name parts.
5. Record in ^XTMP all changes that were made, and any potentially incorrect assumptions that were made in standardizing the name or parsing the name into its component parts. The purge date recorded in the 1st ^-piece of ^XTMP("XLFNAME",0) is the current date plus 90 days.
6. Stores in the 4th ^-piece of ^XTMP("XLFNAME",0) the record number of the last record successfully converted. If the New Person Name Conversion is run again if, for example, an aborted installation is restarted, the conversion will continue from this point, rather than from the beginning of the file.

The PRINT^XLFNAME entry point, described below, can be used to print the information recorded in ^XTMP in step 5 above.

Information stored in ^XTMP by the New Person Name Conversion

^XTMP("XLFNAME",0) =	date run plus 90 days (purge date) ^date run ^Created by POST~XLFNAME (Post Install Conversion of XU*8.0*134) ^ien of last record successfully converted
^XTMP("XLFNAME",200,.01,rec) =	Original Name ^New (Standard) Name ^Given (First) Name ^Middle Name ^Family (Last) Name ^Suffix
^XTMP("XLFNAME",200,.01,rec,sub) =	""
where, rec=	The internal entry number of a record in the New Person file.
sub = Any of the following:	
"Different"	The standard name is different from the original name.

"Family"	The Family Name started with ST<period>. (The conversion routine removes the period and the space, if any, that immediately follows. For example, the name "ST. JAMES,JOHN" is converted to "STJAMES,JOHN".
"Given"	There is no Given Name.
"Middle"	There are three or more names between the comma and the Suffix(es). (The conversion routine assumes that all name parts except the last between the comma and any suffixes are part of the Given Name. Only the last part is assumed to be the Middle Name.)
"NM"	"NMI" or "NMN" appears to have been used as the Middle Name. (The conversion routine removes it from the standard name, and sets the Middle Name to null in the Name Components file.)
"NUMBER"	A name part (other than a valid numeric Suffix) contains a number.
"PERIOD"	The name contains periods that were removed to form the standard name.
"PUNC"	The name contains punctuation other than hyphens or spaces that were removed to form the standard name.
"SPACE"	The Family Name contains spaces that were removed to form the standard name.
"STRIP"	The name contained parenthetical text that was stripped out of the name. The conversion routine removes text enclosed in parentheses (), brackets [], and braces {}, and stores the original name with the parenthetical text in the NOTES ABOUT NAME field (#11) in the NAME COMPONENTS file. (For example, the conversion routine changes SMITH,JOHN (TRM) to SMITH,JOHN.)

"SUFFIX"	<p>This node is returned if:</p> <p>Suffix(es) were found immediately to the left of the 1st comma. (The conversion routine moves them to the end of the name, before any suffixes already there.)</p> <p>I, V, or X, and nothing else except valid suffixes appear immediately after the Given Name. (The conversion routine interprets it as a Middle Name.)</p> <p>The name immediately after the Given Name appears to be a non-numeric suffix (IV, JR, SR, DR, MD, ESQ, etc.) and everything after that also appears to be suffixes. (The conversion routine assumes that there are a Given Name and Suffixes, but no Middle Name.)</p> <p>M.D. or M D is found at the end of the name, or before any valid suffixes at the end of the name. (The conversion routine assumes that M and D are initials in the Given or Middle Name.)</p> <p>The name part before any recognizable suffixes is more than one character in length and doesn't contain a "Y" or any vowels. (It is assumed to be a suffix.)</p> <p>A suffix was found between commas immediately after the Family Name. (The conversion routines moves it to the end of the name.)</p>
"TRUNCATE"	<p>The standard name was truncated because it was longer than the maximum field length.</p>

2.99.1.1 PRINT^XLFNAME: Print Report in ^XTMP

This is the Kernel Direct Mode Utility for Name Standardization. A Direct Mode Utility is a programmer call (entry point) that is made when working in direct programmer mode. A Direct Mode Utility is entered at the MUMPS prompt (e.g., >D ^XUP). Calls that are documented as direct mode utilities cannot be used in application package code.

This entry point prints a report of the information in the ^XTMP("XLFNAME") global, which was populated during the New Person Name Conversion. Information in the ^XTMP("XLFNAME") global is retained for 90 days. The report can be queued.

For each name listed, the report shows what file, field, and record that name came from. The report also shows the original and standardized form of each name. It shows a list of codes for each name, to indicate whether the name is different from its standardized form, and whether the conversion routine had a potential problem in determining the component parts of the name.

PRINT^XLFNAME first prompts for a list of codes:


```
Enter a list of codes to print: ALL//
```

Press the Return key to accept the default *ALL* if you wish to print out all the records in ^XTMP.

If you wish to print out only those records with specific codes, you can type a list of codes, separated by commas. Only those records with a code in your list will be printed. For example, if you type **PU,SP**, only those entries where punctuation was removed by the conversion routine and entries where spaces were removed are printed in the report. Type **??** at the prompt to see a complete listing of codes you can enter:

Code	Explanation
D	The standard name is different from the original name.
F	The Family Name starts with ST<period>. The period and following space, if any, were removed.
G	There is no Given Name.
M	Assumption: There is more than one Given and only one Middle Name.
NM	NMI or NMN was used as the Middle Name.
NU	A name part contains a number.
PE	Periods were removed.
PU	Punctuation was removed.
SP	Spaces were removed from the Family Name.
ST	Text in parentheses was stripped from the name.
SU	One or more of the following situations was encountered relating to suffixes: Suffixes were found immediate to left of the first comma. I, V, or X was interpreted as a Middle Name. A name part was interpreted as a Suffix, not a Middle Name. M.D. or M D was NOT interpreted as a Suffix. A name part with no vowels was interpreted as a Suffix. A Suffix was found between commas immediately after the Family Name.
T	The standard name was truncated.

You are then prompted for a list of codes to exclude.

Type a list of codes to exclude: Records with any code in the list you enter here will be excluded from the printout. This list overrides the list of codes to include.

2.99.1.2 Name Components File (#20)

A new Name Components (#20) file is exported with this patch to hold the component parts of a person's name:

- Family (last) Name (field #1)
- Given (first) Name (field #2)
- Middle Name (field #3)

- Prefix (field #4)
- Suffix (field #5)
- Degree (field #6)

If any of these components are edited, MUMPS cross-references automatically update the name from which the components were originally built.

The Name Components file contains fields for degree and prefix. These fields can be used in building formatted names for display, but are not considered part of a standard name field and are not included as part of the .01 field of the New Person file.

The standard form of a name can contain only a limited set of punctuation, as described below, but the name components stored in the Name Components file can contain any punctuation except the accent grave (`) and the up-arrow (^). New Kernel APIs will allow the programmer to take a record from the Name Components file and construct a name in various formats, such as standard form, first name first, and last name first. (See the Name Standardization Supplement to Patch Description documentation for more information on the new APIs.)

For example, suppose the standard form of the name stored in the .01 field of the New Person file is OBRIEN,JOHN A B II. The component parts of that name, as stored in the Name Components file can be:

```
Prefix: MR.  
Given (FIRST) Name: JOHN  
Middle Name: A. B.  
Family (last) Name: O'BRIEN  
Suffix: JR.
```

The `$$NAMEFMT^XLFNNAME` extrinsic function can be used to return that name in the following format:

- MR. JOHN A. B. O'BRIEN, JR.

The NAME COMPONENTS file contains the following three fields to identify the specific name to which the components correspond:

- FILE field (#.01). This field holds the number of the file or subfile that contains the name field.
- Field field (#.02). This field holds the number of the field that contains the name.
- IENS field (#.03). This field holds the internal entry number string (IENS) of the entry that contains the name.

The entries in the Name Components file that correspond to a name in the New Person file will all have FILE = 200 and FIELD = .01.

The Name Components file contains a field Notes About Name (#11), a free text field that can contain notes about the entry. This field is populated during the New Person Name Conversion. If during the conversion, a name is found with text in parentheses (), brackets [], or braces {}, the parenthetical text is stripped from the name, and the original name with the parenthetical text is stored in the Notes About Name field.

2.99.1.3 Changes to the New Person File (#200)

1. The input transform will continue to check that the name entry is 3 to 35 characters in length, contains one and only one comma, and has at least one character before and one character after the comma. In addition, the input transform will call the new Name Standardization API, STDNAME^XLFFNAME, to parse the input into its component parts, Family (last) Name, Given (first) Name, Middle Name, and Suffix, and will make the following changes to the input:
 - a. Convert the name to uppercase
 - b. In the Family Name (the portion to the left of the comma):
 - Convert colons (:) and semicolons (;) to hyphens (-)
 - Remove spaces and all other punctuation except hyphens
 - c. In the other name parts (the portion to the right of the comma):
 - Convert colons, semicolons, and periods (.) to spaces
 - Remove all punctuation except hyphens and spaces
2. Remove hyphens and spaces at the beginning and end of the name
 - a. Replace two or more consecutive hyphens or spaces with a single hyphen or space
 - b. Convert numeric birth position suffixes 1ST, 2ND, 3RD ... 10TH to their Roman numeral equivalents I, II, III, ..., X
 - c. Move any suffixes immediately to the left of the comma to the end of the name, before any suffixes already at the end of the name
 - d. h. Move DR to the end of the name if it is found immediately to the right of the comma
 - e. Move any suffixes between two commas immediately after the Family Name to the end of the name.
 - f. Remove the string "NMI" or "NMN" if either is used as the Middle Name. The Name stored in the .01 field will have the following standard format:

Family_name, Given_name<space>Middle_name<space>Suffix
--

If there is more than one Given Name, Middle Name or Suffix, they can be separated by spaces.

3. The Help-Prompt and Description of the .01 field will be modified to show the standard form of a name, and the changes automatically made to the input.
4. A new Name Components field (#10.1) defined as a pointer to the Name Components file will be created in the New Person file. This field establishes a link between each entry in the New Person file with the corresponding entry in the Name Components file that contains the component parts of the Name.
5. The traditional "B" index will be deleted and a new-style "B" index will be created in its place. The new-style "B" index will have a "transform for lookup" to aid in lookup. The value of the .01 field will be stored in the index the same as in the data, but when the user does a lookup on the file, if no match is found in the index to the lookup value, FileMan will pass the lookup value through the Name Standardization API, STDNAME^XLFNAME, and attempt to find a match in the "B" index to the new standardized value. Cross-references with transforms for lookup are a new construct supported in FileMan version 22.0.
6. A new-style MUMPS cross-reference called "ANAME" will be created on the New Person file to keep the .01 field synchronized with the corresponding entry in the Name Components file. When the .01 field is edited, the cross-reference will update the corresponding entry in the Name Components file. When a new entry is created in the New Person file, the cross-reference will create a new entry in the Name Components file, store the component parts of the name in the fields 1, 2, 3, and 5 of the Name Components file, and stuff the pointer to the entry in the Name Components pointer field (#10.1) in the New Person file.
7. The "AF" trigger cross-reference that currently updates the Signature Block Printed Name field (#20.2) will be deleted. Instead, the Signature BLOCK Printed Name will be updated via a new-style MUMPS cross-reference based on the Family (last) Name field (#1), Given (first) Name field (#2), Middle Name field (#3), and Suffix field (#5) of the Name Components file.
8. A new-style MUMPS cross-reference called "ADEG" will be created to keep the Degree field (#10.6) in the New Person file synchronized with the Degree field (#6) in the Name Components file.

2.99.1.4 Changes to Option XUSERNEW: Add a New User to the System

When you enter a name at the "Enter New Person's name (Family, Given Middle Suffix):" prompt, the input transform on the Name field (#.01) of the New Person file will convert the name to standard form and parse it into its component parts. When the entry is added to the New Person file, the new-style MUMPS cross-reference "ANAME" will automatically create an entry in the Name Components file and populate that entry with the Family (last) Name, Given (first) Name, Middle Name, and Suffix of the person. The value '200' will be stored in the File field (#.01) of the Name Components file entry, the value '.01' will be stored in the Field field (#.02), and the IENS of the record in the New Person file will be stored in the IENS field (#.03). The record number of the entry in the Name Components file will be stored in

2.99.1.6 Changes to Option XUSERREACT: Reactivate a User

This option invokes the XUREACT USER ScreenMan form. If for some reason the XUREACT USER form cannot be invoked (because the terminal type cannot handle screen-oriented applications, for example), the XUSERREACT option invokes the XUREACT USER input template. Both the XUREACT USER form and input template have been modified to allow you to edit the component parts of a person's name.

The changes to the XUREACT USER form are exactly the same as those to the XUEXISTING USER form described above.

Changes to \$\$ADD^XUSERNEW: Add New Users This API has been modified to prompt for the Family (last) Name field (#1), Given (first) Name field (#2), Middle Name field (#3), and Suffix field (#5) from the Name Components file when a new entry is added to the New Person file.

2.99.1.7 New Function XLFMTNAME: Name Formatting Function

A new FUNCTION will be installed in the FileMan function file. This function can be used within the FileMan Print options, or within word-processing windows used to generate forms. The new function allows the user to display names in various formats from any file containing a name field that has been standardized and linked to the Name Components file (#20). This patch standardizes the .01 field of the New Person file #200, so the new function will work on that name field.

2.99.2 Routines

The following routines are included in this patch.

The second line of these routines looks like:

```
<tab>;;8.0;KERNEL;*[patch list]*;Jul 10, 1995
```

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XLFNAME	New	7311068	134
XLFNAME1	New	8772051	134
XLFNAME2	New	3037800	134
XLFNAME3	New	7553802	134
XLFNAME4	New	14920261	134
XLFNAME5	New	14281977	134
XLFNAME6	New	510953	134
XLFNENV	New	1143844	134
XUSERNEW	6995154	7347033	16,49,134

Routine Information

Routine Name: XLFNAME

Routine Checksum:

Routine Name: XLFNAME1

Routine Checksum:

Routine Name: XLFNAME2

Routine Checksum:

Routine Name: XLFNAME3

Routine Checksum:

Routine Name: XLFNAME4

Routine Checksum:

Routine Name: XLFNAME5

Routine Checksum:

Routine Name: XLFNAME6

Routine Checksum:

Routine Name: XLFNENV

Routine Checksum:

Routine Name: XUSERNEW

Routine Checksum:

2.99.3 Installation Instructions

This patch can be installed with VISTA users online. However, it is recommended that it be installed or queued for install during non-peak times.

Since the POST-INSTALL ROUTINE (POST^XLFNAME) of this patch runs the New Person Name Conversion, the installation may take up to several hours to complete.

1. AXP sites: Review your mapped routine set. If any of the routines listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set at this time.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

Note: Do NOT stop TaskMan.

3. The patch has now been loaded into a transport global on your system. On the KIDS menu, under the 'Installation' menu, use the following options:

- Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Under the 'Installation' menu, use the following option:
 - Select Installation Option: Install Package(s)
 - Select INSTALL NAME: XU*8.0*134
 - Answer 'NO' to 'Want KIDS to INHIBIT LOGONs during the install?'
 - Answer 'NO' to 'Want to DISABLE Scheduled Options, Menu Options, and Protocols?'
 5. The New Person Name Conversion is run automatically as part of the POST-INSTALL ROUTINE (POST^XLFFNAME). This step may take anywhere from 5 minutes to several hours depending on the number of entries in the
 6. New Person file that need to be converted. If for some reason the system goes down, and the POST-INSTALL ROUTINE aborts while it is running, you can select the KIDS option "Restart Install of Package(s)" to restart the installation from the post-install. The POST-INSTALL ROUTINE will continue with the conversion from the last record successfully converted.
 7. AXP Sites - After the patch has been installed, rebuild your map set, if necessary.

2.99.4 Post-Installation Instructions

After the patch has been installed, and the conversion run, you need to review the information stored in ^XTMP("XLFFNAME") by the conversion, and correct any names that were standardized incorrectly. This need not be done immediately. ^XTMP("XLFFNAME") has a purge date of 90 days after the date of the install.

1. From programmer mode, DO PRINT^XLFFNAME to print the information stored in ^XTMP by the New Person Name Conversion. (For more information, see the sections "Information stored in ^XTMP by the New Person Name Conversion" and "PRINT^XLFFNAME: Print Report in ^XTMP", above.)
2. Use the "Edit an Existing User" option [XUEXISTING USER] and the report generated in step 1 to correct any names that were parsed or standardized incorrectly. (For more information on this option, see "Changes to Option XUSEREDIT: Edit an Existing User" above, and the separate document exported with this patch, "NAME STANDARDIZATION Supplement to Patch Description.")

2.100 XU*8*145 SEQ #129: KIDS Fixes

Associated patches: (v)XU*8*131 must be installed BEFORE `XU*8*145'

Category: Routine

2.100.1 Description

This Patch fixes a KIDS bug that was not allowing the users to abort a KIDS build if the build was selected to be queued and a device was already selected. This was reported in NOIS: DUB-1099-31069.

This Patch fixes a bug in XPDIA where a call to SUBS passed three parameters rather than two. This reported in NOIS: WAS-0300-21926.

2.100.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDI	14086873	13866769	10,21,39,41,44,58,68,108,145
XPDIA	14296891	14279750	10,15,21,28,44,58,68,131,145

List of preceding patches: 108

Routine Information

Routine Name: XPDI
Routine Checksum:

Routine Name: XPDIA
Routine Checksum:

2.100.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.

3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*145
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.101 XU*8*146 SEQ #130: KIDS Template & Logical Link Fix

Category: Routine

2.101.1 Description

This patch allows KIDs to distribute templates (Print, Input, Sort, etc..) that have similar names but are associated with different files. It was reported in NOIS: IHS-1098-51056 KIDS also won't overwrite HL7 Logical Link TCP information at the sites when exporting a HL7 link.

2.101.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

<tab>;;8.0;KERNEL; **[patch list]**; Jul 10, 1995

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDIA1	10621758	10996284	2,44,51,58,68,85,131,146
XPDIK	14212064	14264932	15,58,108,124,146

List of preceding patches: 124, 131

Routine Information

Routine Name: XPDIK

Routine Checksum:

Routine Name: XPDIA1

Routine Checksum:

2.101.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*146

- Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.102 XU*8*142 SEQ #131: Library Routine to Do DNS Lookup

Category: Routine, Data Dictionary

2.102.1 Description

This Patch installs a routine that can do a DNS lookup to convert a domain name to an IP address. This routine has two supported API's. The change by VISN's to the 10. private IP addressing pushed the need for this patch.

Important: This patch is used by HL7 patch HL*1.6*63.

The post install will enter the address of one of the national DNS servers. Please change to the correct one for your site.

If you are installing this patch in a test environment along with HL7 Patch 63, do not point to a production DNS. This could result in transmitting test HL7 messages to a site's production system.

The install will test for a HL7 test parameter and not install the default DNS address in this case.

2.102.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;June 25, 1999
```

Checksum

Routine	Old	New	2nd Line
XLFNSLK	New	7523173	**142**

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFNSLK

Routine Checksum:

2.102.3 Installation

Note: Users may remain on the system.

1. DSM sites - This is a new routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time.
5. You Do Not need to stop TaskMan or the Background Filers
6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*142'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. The POST install has entered the address of one of the national DNS servers. PLEASE CHANGE TO THE CORRECT ONE FOR YOUR SITE.
 - From the EVE menu > Operations Management > Kernel Management Menu
 - Enter/Edit Kernel Site Parameters. Go to the third screen and enter the correct DNS IP address for your site. Here are the national DNS IP address's
 - 152.127.1.12 ns1
 - 152.128.1.12 ns2
 - 152.129.1.12 ns3
 - 152.130.1.12 ns4
 - 152.131.1.12 ns5
 - 152.132.1.12 ns6

2.103 XU*8*136 SEQ #132: TaskMan ORB Resource Speedup

Category: Routine

2.103.1 Description

This patch addresses some of the problems that TaskMan is having with the ORB Notification Resource and the ORW Thread Resource. Working with West LA and Seattle, a locking conflict was identified when TaskMan was trying to allocate resource devices. With this change TaskMan skips the lock of ^%ZTSCH("DEV",IO) to prevent two tasks from trying to open the same device at the same time. The resource device has its own lock to control this. This should fix a number of NOIS reports.

NOIS	Routine	Description
NJH-0100-20258 NTH-0100-70436 CLE-0100-40398 CTX-0100-70947 CLE-0200-40051 BAY-0100-31168 TAM-0100-32225 JAC-0100-72572 JAC-0200-70074 CTX-0300-70786		Three new fields were added to the TaskMan Site Parameters file. "Balance Interval" to control how often the manager does the Balance code. "Auto Delete Tasks" to control if the sub-manager will set ZTREQ to "@" before the task starts. "Manager Startup Delay" to control how long the manager waits when starting. This field isn't used for a restart.
TAM-0100-32225	ZTREQ	A problem in the use of ZTREQ to re-schedule a task was fixed with a change to %ZTLOAD3.
MAC-0300-61865	ZTOVERLD ZTM6 ZOSVONT	If there was an error in the load balance routine the variable ZTOVERLD would be undefined, ZTM6. Also fix is a incorrect label in the ShareLic code of ZOSVONT.
LIT-0300-71933 FGH-0300-32520	ZTMGRSET	Routine %LICENSE not in DMS 7.2 as expected. ZOSVVXD. The need for %ZOSV1 eliminated, routine ZOSV1VXD deleted by install. ZTMGRSET updated to reflect this change.
CML-1299-4077	XUTMQ3	Changed to adapt to the new TaskMan "IO" list.
ALB-1299-50759	%ZIS2	Problem with the HFS parameters in the device file not being used when called from TaskMan and ZTIO was used to setup the device.
	ZIS6	ZIS6 was changed to consolidate the resource device checking.

2.103.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XUTMQ	8141476	8186969	**20,136**
XUTMQ3	6060152	5747866	**136**
ZIS2	10170284	10178860	**69,104,112,118,136**
ZIS6	9115588	10232057	**24,49,69,118,127,136**
ZOSVONT	6757287	5179130	**34,94,107,118,136**
ZOSVXD	6204470	7443216	**13,65,71,94,107,118,136**
ZTLOAD3	3910561	4046069	**67,127,136**
ZTM	8571416	9005201	**24,36,64,67,118,127,136**
ZTM0	6026624	6089712	**42,36,67,88,118,127,136**
ZTM5	4063072	4417939	**24,36,118,127,136**
ZTM6	2656166	2656180	**23,118,127,136**
ZTMGRSET	14239565	14179554	**34,36,69,94,121,127,136**
ZTMON	4458377	4675862	**118,127,136**
ZTMS	5576536	5488776	**2,18,24,36,67,94,118,127,136**
ZTMS1	8021013	8379658	**36,49,104,118,127,136**
ZTMS3	9841850	9642200	**1,18,36,49,64,67,94,118,127,136**
ZTMS4	4980927	5100103	**136**
ZTMS7	1828513	2052318	**1,118,127,136**

List of preceding patches: 20, 127

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZIS6

Routine Checksum:

Routine Name: ZOSVONT

Routine Checksum:

Routine Name: ZTM

Routine Checksum:

Routine Name: ZTMS1

Routine Checksum:

Routine Name: ZTMS7

Routine Checksum:

Routine Name: ZTMS4

Routine Checksum:

Routine Name: ZTLOAD3

Routine Checksum:

Routine Name: ZTMS3
Routine Checksum:

Routine Name: ZTM0
Routine Checksum:

Routine Name: ZTM5
Routine Checksum:

Routine Name: ZTMS
Routine Checksum:

Routine Name: ZIS2
Routine Checksum:

Routine Name: XUTMQ
Routine Checksum:

Routine Name: XUTMQ3
Routine Checksum:

Routine Name: ZTMON
Routine Checksum:

Routine Name: ZOSVVXD
Routine Checksum:

Routine Name: ZTM6
Routine Checksum:

Routine Name: ZTMGRSET
Routine Checksum:

2.103.3 Installation

Note: Users may remain on the system. Stop TaskMan.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global

- Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
Stop TaskMan. D STOP^ZTMKU
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*136'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZIS2
 - ZIS6
 - ZOSVONT
 - ZOSVVD
 - ZTLOAD3
 - ZTM
 - ZTM0
 - ZTM5
 - ZTM6
 - ZTMGRSET
 - ZTMON
 - ZTMS
 - ZTMS1
 - ZTMS3
 - ZTMS4
 - ZTMS7
 7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 8. DO RELOAD^ZTMGRSET
 9. Select the System
 10. Patch number to load: 136
 1. DSM Sites, after patch has installed, rebuild your map set.

2. Restart TASKMAN or remove TASKMAN from the wait state.

2.104 XU*8*152 SEQ #133: ASIG Cross-Reference on File 20

Category: Routine, Description:

2.104.1 Description

The New Person Name Standardization patch XU*8*134 introduced the Name Components file (#20) on which is defined a new-style MUMPS-type "ASIG" cross-reference. This "ASIG" cross-reference is designed to update the Signature BLOCK Printed Name field (#20.2) in the New Person file (#200) when any of the component parts of a person's name is edited.

A bug in the cross-reference logic, however, prevented the Signature Block Printed Name field from being updated properly. New users added to the system after patch XU*8*134 was installed will have no value for their Signature Block Printed Names.

This patch corrects the logic in the "ASIG" cross-reference. It also includes a Post-Install Routine XLFNP152 that loops through the entries in the New Person file, and if an entry has a null Signature Block Printed Name, updates the Signature Block Printed Name from the components stored in the corresponding entry in the Name Components file.

2.104.2 Routines

The following routine is included in this patch. The second line of the routine looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XLFNP152	n/a	620481	152

Routine Information:

Routine Name: XLFNP152

Routine Checksum:

2.104.3 Installation Instructions

This patch can be installed with VISTA users online. However, it is recommended that it be installed or queued for install during non-peak times.

The only routine included in this patch is the Post-Install Routine XLFNP152. Since

it is a new routine, mapping is not an issue.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

Note: Do NOT stop TaskMan and Do Not stop Background Filers.

2. The patch has now been loaded into a transport global on your system. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Under the 'Installation' menu, use the following option:
 - Select Installation Option: Install Package(s)
 - Select INSTALL NAME: XU*8.0*152
 - Answer 'NO' to 'Want KIDS to INHIBIT LOGONs during the install?'
 - Answer 'NO' to 'Want to DISABLE Scheduled Options, Menu Options, and Protocols?'
4. The Post-Install Routine XLFNP152 runs automatically. It loops through the entries in the New Person file and updates any Signature Block Printed names that are null.

Note: You can delete XLFNP152 after this patch is installed.

2.105 XU*8*143 SEQ #134: RUM for Cache and Enhancements

Category: Informational, and Enhancement (Mandatory)

2.105.1 Description

Note: This install contains 2 patches: XU*8.0*143 and KMPR*1.0*2, because of the tight integration of these patches they are being released together. This message contains only the instructions for installation. The routines are located in KIDS file 'XU_8_143.KID'.

This file contains two patches, XU*8.0*143, KMPR*1.0*2

This patch contains the following updates:

1. RUM is now enabled for Cache.
2. The 'Status of RUM Collection [KMPR Status Collection]' option has a different display for the Queued to Run at and Rescheduling Frequency fields.
3. When starting RUM the 'RUM Background Driver [KMPR Background driver]' option will be checked and if not running will be automatically scheduled to run each day at 1 a.m. This will prevent data from being stored in ^XTMP("KMPR" and never purged.
4. The Entry action for option 'RUM Manager Menu [KMPR Rum Manager Menu]' has been edited to display the current RUM version number correctly.

2.105.2 Routines

Checksum

Routine	Old	New	2nd line
KMPRPOST	339091	229661	**1,2**
KMPRSS	6447598	5629742	**1,2**
KMPRUTL	4452862	4452862	**1,2**
KMPRUTL1	3328402	3357821	**1,2**
ZOSVKRM	217494	217494	**90,94,107,122,143**
ZOSVKRO	217494	4988356	**90,94,107,122,143**
ZOSVKRV	5750377	5750377	**90,94,107,122,143**

2.105.3 Installation Instructions

Installation instructions follow:

Note: All sites must install this patch.

1. Turn RUM off using option [KMPR STOP COLLECTION].
2. You need to use KIDS to install this patch. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Load a Distribution
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch should be loaded at a non-peak time. If the possibility of a few <NOSOURCE> errors is acceptable then installation can take place immediately after turning RUM off. Otherwise it is recommended that RUM be turned off for 2 hours before patch installation.

4. This patch should NOT be installed while the RUM Background Driver [KMPR BACKGROUND DRIVER] option is running (this job is queued to run every day, usually at 1 a.m.).
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*143'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. OpenM/Cache sites remain in VAH. DSM sites can skip this step
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 143
7. Turn RUM back on [KMPR START COLLECTION].

Example of a typical install follows:

```

Select OPTION NAME: KMPR RUM MANAGER MENU          RUM Manager Menu menu
CAPACITY MANAGEMENT - RUM

                * Resource Usage Monitor 1.0 *

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STA   Status of RUM Collection

                Resource Usage Monitor Status
                Version 1.0

The Resource Usage Monitor is currently running.

The 'RUM Background Driver' [KMPR BACKGROUND DRIVER]
is QUEUED TO RUN AT Mar 28, 2000@01:00
with a RESCHEDULING FREQUENCY of '1D'.

The temporary collection global (i.e., 'XTMP("KMPR")') is present
on your system.

Press <RETURN> to continue:

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STOP RUM Collection

Do you want to stop Resource Usage Monitor collection? YES//

                Resource Usage Monitor collection is stopped.

```

```

Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution
System menu      KIDS

Edits and Distribution ...
Utilities ...
Installation ...

Select Kernel Installation & Distribution System Option: INstallation

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
        Restart Install of Package(s)
        Unload a Distribution

Select Installation Option: LOAD a Distribution
Enter a Host File: XU_8_143.KID

KIDS Distribution saved on Oct 05, 1999@08:41:52
Comment: PATCHES XU*8.0*143 AND KMPR*1.0*2

This Distribution contains Transport Globals for the following Package(s):
XU*8.0*143
KMPR*1.0*2

Want to Continue with Load? YES//
Loading Distribution...

XU*8.0*143
KMPR*1.0*2

Use INSTALL NAME: XU*8.0*143 to install this Distribution.

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
        Restart Install of Package(s)
        Unload a Distribution

Select Installation Option: VERify Checksums in Transport Global
Select INSTALL NAME: XU*8.0*143 Loaded from Distribution
3/27/00@09:07:10
=> PATCHES XU*8.0*143, KMPR*1.0*2 ;Created on Mar 08, 2000@09:05:48

This Distribution was loaded on Mar 08, 2000@09:07:10 with header of
PATCHES XU*8.0*143, KMPR*1.0*2 ;Created on Mar 08, 2000@09:05:48
It consisted of the following Install(s):
XU*8.0*143      KMPR*1.0*2
DEVICE: HOME// TELNET DEVICE

PACKAGE: XU*8.0*143      Mar 08, 2000 9:07 am      PAGE 1
-----

4 Routine checked, 0 failed.

PACKAGE: KMPR*1.0*2      Mar 08, 2000 9:07 am      PAGE 1
-----

```

3 Routine checked, 0 failed.

- 1 Load a Distribution
- 2 Verify Checksums in Transport Global
- 3 Print Transport Global
- 4 Compare Transport Global to Current System
- 5 Backup a Transport Global
- 6 Install Package(s)
Restart Install of Package(s)
Unload a Distribution

Select Installation Option: BACKup a Transport Global
 Select INSTALL NAME: XU*8.0*143 Loaded from Distribution
 3/27/00@14:46: 36
 => XU*8.0*143, KMPR*1.0*2 ;Created on Mar 08, 2000@13:16:26

This Distribution was loaded on Mar 08, 2000@14:46:36 with header of
 XU*8.0*143, KMPR*1.0*2 ;Created on Mar 08, 2000@13:16:26
 It consisted of the following Install(s):
 XU*8.0*143 KMPR*1.0*2
 Subject: Backup of XU*8.0*143 install on Mar 08, 2000
 Replace
 Loading Routines for XU*8.0*143...
 Loading Routines for KMPR*1.0*2....
 Send mail to: KAMAROWSKI,ROBERT A. Replace KAMAROWSKI,ROBERT A.
 Select basket to send to: IN//
 And Send to:

Select Installation Option: INStall Package(s)
 Select INSTALL NAME: XU*8.0*143 Loaded from Distribution
 3/8/00@08:42:50
 => PATCHES XU*8.0*143 AND KMPR*1.0*2 ;Created on Mar 08,
 2000@08:41:52

This Distribution was loaded on Mar 08, 2000@08:42:50 with header of
 PATCHES XU*8.0*143 AND KMPR*1.0*2 ;Created on Mar 08, 2000@08:41:52
 It consisted of the following Install(s):
 XU*8.0*143
 KMPR*1.0*2

XU*8.0*143
 Install Questions for XU*8.0*143

KMPR*1.0*2

Install Questions for KMPR*1.0*2

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Want KIDS to INHIBIT LOGONS during the install? YES// NO

Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// 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: HOME// TELNET DEVICE

Install Started for XU*8.0*143 :
 Mar 08, 2000@08:43:38

```

Installing Routines:
      Mar 08, 2000@08:43:38

Updating Routine file...

Updating KIDS files...

XU*8.0*143 Installed.
      Mar 08, 2000@08:43:39

                                KMPR*1.0*2
-----
Install Message sent #2723

Install Started for KMPR*1.0*2 :
      Mar 08, 2000@08:43:39
Installing Routines:
      Mar 08, 2000@08:43:41

Installing PACKAGE COMPONENTS:

Installing OPTION

Updating Routine file...

Updating KIDS files...

KMPR*1.0*2 Installed.
      Mar 08, 2000@08:43:41

Install Message sent #2724
-----
100%  |-----+-----+-----+-----+
Complete +-----+-----+-----+-----+

Install Completed

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
       Restart Install of Package(s)
       Unload a Distribution

Select Installation Option:
Cancel %DSM-E-CTL, control C typed
%DSM-I-ATLABEL, ASK+1^XQ:3      W !,XQAA R XQUR:DTIME I '$T Q:$D(XQALEXIT)
W *7 ," Timed out...." G CON^XQTOC

***DSM SITES MAY SKIP THE FOLLOWING STEP.  HOWEVER, IF THEY DO DECIDE***
***TO RUN RELOAD^ZTMGRSET, IT MUST BE DONE FROM THE MGR ACCOUNT!!!  ***

VAH>D RELOAD^ZTMGRSET

ZTMGRSET Version 8.0 **34,36,69,94,121**
HELLO! I exist to assist you in correctly initializing the MGR account
or to update the current account.

```



```

THIS MAY NOT BE THE MANAGER UCI.
I think it is VAH,ROU. Should I continue anyway? N//Y
I think you are using OpenM-NT
Which MUMPS system should I install?

1 = VAX DSM(V6)
2 = MSM-PC/PLUS
3 = OpenM for NT
4 = Datatree,DTM-PC,DT-MAX
5 = MVX,ISM VAX
6 = ISM (UNIX, Open VMS)
System: 3 <-- Enter the appropriate number for your facility -->

Patch number to load: 143

I will now rename a group of routines specific to your operating system.
Routine: ZOSVVXD
Routine: ZTBKCVXD
Routine: ZIS4VXD
Routine: ZISFVXD
Routine: ZISHVXD
Routine: XUCIVXD
Routine: ZISETVXD
Routine: ZOSV1VXD
Routine: ZOSV2VXD
Routine: ZTMDCL
Routine: ZOSVKRO          Loaded, Saved as %ZOSVKR
Routine: ZOSVKSVE
Routine: ZOSVKSVS
Routine: ZOSVKSD

Now to load routines common to all systems.
Routine: ZTLOAD
Routine: ZTLOAD1
...
Routine: ZTMOVE
Installing ^%Z editor
ALL DONE

***ALL SITES MUST DO THE FOLLOWING STEPS***
Select OPTION NAME: KMPR RUM MANAGER MENU          RUM Manager Menu m enu
CAPACITY MANAGEMENT - RUM

                * Resource Usage Monitor 1.0 *

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STR  Start RUM Collection

Do you want to start Resource Usage Monitor collection? YES//

                Resource Usage Monitor collection is started.

STA   Status of RUM Collection
STR   Start RUM Collection
STP   Stop RUM Collection
RPT   RUM Reports ...

Select RUM Manager Menu Option: STA  Status of RUM Collection

```

```
Resource Usage Monitor Status
Version 1.0

The Resource Usage Monitor is currently running.

The 'RUM Background Driver' [KMPR BACKGROUND DRIVER]
is QUEUED TO RUN AT Mar 28, 2000@01:00
with a RESCHEDULING FREQUENCY of '1D'.

The temporary collection global (i.e., 'XTMP("KMPR")') is present
on your system.
Press <RETURN> to continue:
```

2.106 XU*8*158 SEQ #135: File #200, Signature Block Printed Name Input Transform

Category: Data Dictionary

2.106.1 Description

The input transform on the Signature Block Printed Name field (#20.2) of the New Person file (#200) checks that the value contains the first comma piece of the Name field (#.01); that is, that the Signature Block Printed Name contains the last name of the person as stored in the NAME field.

The New Person Name Standardization patch XU*8*134 standardized the names stored in the Name field, so the input transform for Signature Block Printed NAME is no longer correct. For example, if Name (#.01) = OBRIEN,MARY A Signature Block Printed Name of MARY O'BRIEN should be accepted, but the input transform is rejecting it.

This patch modifies that input transform of the Signature Block Printed Name field so that it checks that the Standardized form of the Signature Block Printed Name contains the first comma piece of the Name field.

2.106.2 Routines

No routines are included in this patch.

2.106.3 Installation Instructions

This patch can be installed with VISTA users online. However, it is recommended that it be installed or queued for install during non-peak times.

Since this patch contains no routines, mapping is not an issue.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

Note: Do NOT stop TaskMan and do NOT stop Background Filers.

2. The patch has now been loaded into a transport global on your system. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Under the 'Installation' menu, use the following option:
 - Select Installation Option: Install Package(s)
 - Select INSTALL NAME: XU*8.0*158
 - Answer 'NO' to 'Want KIDS to INHIBIT LOGONs during the install?'
 - Answer 'NO' to 'Want to DISABLE Scheduled Options, Menu Options, and Protocols?'

2.107 XU*8*153 SEQ #136: Misleading Login Message

Category: Routine

2.107.1 Description

ISL-0797-50726.

Site discovered that when a user attempts to logon and the Prohibited Times for Sign-on (file #200 and field #15) has been set with a time range that the user may not sign-on, an invalid message is displayed to the user. Display has been revised as follows:

```
OLD - Good morning JOSHUA
      You last signed on today at 09:00
      Device:_TNT0001

      VERIFY CODE MUST be changed before continued use.

      ACCESS CODE:
NEW - Good morning JOSHUA
      You last signed on today at 09:00
      Device:_TNT0001

      SMITH,JOSHUA M. you are NOT AUTHORIZED to access the system during
      the hours of 10:00 am thru 1:30 pm. Please try before 10:00 am or
      after 1:30 pm.
```

ACCESS CODE :

2.107.2 Routines

The following routine(s) are included in this patch.

The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;**[Patch List]**;07/03/95
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XUS1A	5446713	7137988	153

Routine Information:

Routine Name: XUS1A

Routine Checksum:

2.107.3 Installation Instructions

1. Users ARE NOT allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. You Do Not need to stop TaskMan or the background filers.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*153
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols?

YES// NO

6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

2.108 XU*8*138 SEQ #137: Adding Visitors to the New Person File

Category: Routine

2.108.1 Description

This Kernel patch allows users to be validated through the traditional Access and Verify Codes on their home systems and then carry that authentication to other systems where they may not be entered in the New Person File (NPF). A packet of information is carried with the user to the system being visited, and that information is then entered in the NPF so that a trace to the original authentication can be made. No Access and Verify codes are, however, entered in the NPF so that the visitor may not log in. He or she will only see that information provided by the CPRS foreign views software. A bulletin, XUVISIT, will be sent when an entry is made in the New person File if the site has assigned a valid mail group to the bulletin. The software defines a new multiple in the NPF called "Visited From" which stores the information brought from the home system.

There is a new Sort and Print template to show NPF entries that have been Visitors to a site. XUS Visit User.

The Sign-on log has new fields to record the remote site and remote IEN of a visitor. A new Print template XUSEC Remote Access and sort template XUSEC Remote Access to print just entries from remote users.

2.108.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: ;;8.0;KERNEL;<patchlist>;Jul 10, 1995

Checksum

Routine	Old	New	2nd Line
XUESSO1		4118958	**138**
XUS1	10153593	10540362	**9,59,111,138**
XUSCLEAN	6583467	6966234	**13,59,138**
XUSRB	5880708	6041270	**11,16,28,32,59,70,82,109,115,138**

List of preceding patches: 111, 115

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUS1

Routine Checksum:

Routine Name: XUESSO1

Routine Checksum:

Routine Name: XUSCLEAN

Routine Checksum:

Routine Name: XUSRB

Routine Checksum:

2.108.3 Installation:

Note: Users may remain on the system.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can be queued for install at non-peak hours. With the Users on the system there is a small chance that a user would get a CLOBBER/NOSOURCE error.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*138'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.109 XU*8*164 SEQ #138: Wrong Text in Parentheses for Alert

Associated patches:

(v)XU*8*20	must be installed BEFORE `XU*8*164'
(v)XU*8*65	must be installed BEFORE `XU*8*164'
(v)XU*8*114	must be installed BEFORE `XU*8*164'
(v)XU*8*123	must be installed BEFORE `XU*8*164'
(v)XU*8*125	must be installed BEFORE `XU*8*164'

Category: Routine

2.109.1 Description

PUG-1299-50101

When an alert is sent to a user the Forward and Renew prompts are displayed as F(orward) or R(enew). Changing to display as (F)orward or (R)enew.

2.109.2 Routines

The following routine(s) are included in this patch. The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;*[Patch List]**;07/10/95
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQALERT1	30892967	30893715	20,65,114,123,125

Routine Information

Routine Name: XQALERT1

Routine Checksum:

2.109.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.

4. You Do Not need to stop TaskMan or the background filers.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*164
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

2.110 XU*8*165 SEQ #139: Adding Visitors to the New Person File

Associated patches:

(v)XU*8*111	must be installed BEFORE `XU*8*165'
(v)XU*8*115	must be installed BEFORE `XU*8*165'
(v)XU*8*134	must be installed BEFORE `XU*8*165'
(v)XU*8*152	must be installed BEFORE `XU*8*165'
(v)XU*8*158	must be installed BEFORE `XU*8*165'

Category: Routine, Data Dictionary

2.110.1 Description

This is the replacement patch for XU*8*138. If patch XU*8*138 has been loaded this patch should fix the changes that XU*8*138 made to the cross references of file 200.

This Kernel patch allows users to be validated through the traditional Access and Verify Codes on their home systems and then carry that authentication to other systems where they may not be entered in the New Person File (NPF). A packet of

information is carried with the user to the system being visited, and that information is then entered in the NPF so that a trace to the original authentication can be made. No Access and Verify codes are, however, entered in the NPF so that the visitor may not log in. He or she will only see that information provided by the CPRS foreign views software. A bulletin, XUVISIT, will be sent when an entry is made in the New person File if the site has assigned a valid mail group to the bulletin. The software defines a new multiple in the NPF called "Visited From" which stores the information brought from the home system. There is a new Sort and Print template to show NPF entries that have been visitors to a site. XUS Visit User.

The Sign-on log has new fields to record the remote site and remote IEN of a visitor. A new Print template XUSEC Remote Access and sort template XUSEC Remote Access to print just entries from remote users.

2.110.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XUESSO1	n/a	4118958	**165**
XUS1	10153593	10540362	**9,59,111,165**
XUSCLEAN	6583467	6966234	**13,59,165**
XUSRB	5880708	6041270	**11,16,28,32,59,70,82,109,115,165**

List of preceding patches: 111, 115

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information:

Routine Name: XUESSO1

Routine Checksum:

Routine Name: XUS1

Routine Checksum:

Routine Name: XUSCLEAN

Routine Checksum:

Routine Name: XUSRB

Routine Checksum:

2.110.3 Installation

Note: Users may remain on the system. TaskMan may remain running.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can be queued for install at non-peak hours. With the Users on the system there is a small chance that a user would get a CLOBBER/NOSOURCE error.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*165'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.111 XU*8*161 SEQ #140: Misspelled Word in Bulletin

Category: Informational

2.111.1 Description

FGH-0200-30765.

Misspelled word in Bulletin File(#3.6). No routines will be provided to change the misspelled word. This patch is being sent as Informational. Please follow the directions below to ensure changes are done effectively.

Type **D P^DI** at the ">" programmers prompt.

Type **E** or the entire line at the “Select Option:” prompt.

Type **3.6** at the “Input To What File: Institution//” prompt.

Type **11** at the “Edit Which Field: All//” prompt.

Type **1** at the “Edit Which Parameter Sub-Field: all//” prompt.

Type **XQSERVER** at the “Select Bulletin Name:” prompt.

Type **1** at the “Select PARAMETER:” prompt.

Type **Y** at the “Edit?” prompt.

Correct the spelling of *recieved* to *received*.

```

>D P^DI

VA FileMan 22.0
Select OPTION: E

INPUT TO WHAT FILE: INSTITUTION// 3.6 BULLETIN (36 entries)
EDIT WHICH FIELD: ALL// 11 PARAMETER (multiple)
EDIT WHICH PARAMETER SUB-FIELD: ALL//1 DESCRIPTION (word-processing)

THEN EDIT PARAMETER SUB-FILED:
THEN EDIT FIELD:

Select BULLETIN NAME: XQSERVER

Select PARAMETER: 6// 1
DESCRIPTION:
The date and time in human-readable form when the server request
was recieved.

Edit? NO// YES

==[WRAP]==[INSERT]=====<DESCRIPTION>===== [<PF1>H=Help]=====
The date and time in human-readable form when the server request
was recieved.
-----
^
|
-----CORRECT THIS SPELLING (received).

```

Note: Save the changes and you are done.

2.111.2 Routines

No Routines for this patch

2.112 XU*8*159 SEQ #141: Person Class skip on Term. Users

Associated patches: (v)XU*8*106 must be installed BEFORE `XU*8*159'

Category: Routine

2.112.1 Description

This patch contains a fix to patch XU*8*106's post-init process, MANUAL^XUINPCH2. This process deals with the manual assigning of new person class entries to users that were not re-mapped automatically.

In this fix 'Terminated Users' will be automatically processed adding the current date to the Person Class Expiration Date if that field is current non-existent.

After installation the site will need to: >D MANUAL^XUINPCH2 to process their remaining Person Class entries utilizing the new fixes.

2.112.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XUINPCH2	3930980	4392607	106,159

List of preceding patches: 106

Routine Information

Routine Name: XUINPCH2

Routine Checksum:

2.112.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.

4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*159
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the 'Want to MOVE routines to other CPUs?' question.
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.
8. From Programmers prompt execute MANUAL^XUINPCH2 to complete Users that were not able to be re-mapped automatically.

2.113 XU*8*163 SEQ #142: Task Sync Flag File Not Removing Old Entries

Associated patches:

(v)XU*8*2	must be installed BEFORE `XU*8*163'
(v)XU*8*18	must be installed BEFORE `XU*8*163'
(v)XU*8*23	must be installed BEFORE `XU*8*163'
(v)XU*8*36	must be installed BEFORE `XU*8*163'
(v)XU*8*67	must be installed BEFORE `XU*8*163'
(v)XU*8*118	must be installed BEFORE `XU*8*163'
(v)XU*8*127	must be installed BEFORE `XU*8*163'

Category: Routine

2.113.1 Description

HOU-1099-72362

Option SYNC FLAG FILE CONTROL [XUTM SYNC] does not appear to allow users to remove old entries in the Task SYNC FLAG file ^%ZISL(14.8,. Routine ZTMS2 and XUTMSYNC has been revised to correct this problem.

2.113.2 Routines

The following routine(s) are included in this patch. The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;*[Patch List]**;07/10/95
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
ZTMS2	5847661	6602171	2,18,23,36,67,118,127,163
XUTMSYNC	655698	655786	163

Routine Information

Routine Name: ZTMS2

Routine Checksum:

Routine Name: XUTMSYNC

Routine Checksum:

2.113.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. STOP TASKMAN and STOP other background filers. "DO STOP^ZTMKU"
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*163
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
 7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.
 8. After installing this patch:
 - OpenM Sites - you do not need to move anything, skip this step.
 - DSM/MSM Sites - you need to move a total of 1 routine from your production account to each manager account: ZTMS2
 9. And in the manager account, (Openm sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 163
 10. DSM Sites, after patch has installed, rebuild your map set.
 11. Restart TASKMAN with "D RESTART^ZTMB. DSM sites this may require a privileged user.

2.114 XU*8*166 SEQ #143: HL7 Date/Time Fix for Midnight

Associated patches: (v)XU*8*120 - <<= must be installed BEFORE `XU*8*166`

Category: Routine

2.114.1 Description

In working with the RAI/MDS folks a problem was found in how the FMTHL7 and HL7TFM API's of XLFDT worked. This has been fixed. FM stores midnight as 3000803.24 and HL7 standard requires it to be sent as 200008040000-0800 i.e. Midnight of the night extending from Aug 3 to Aug 4, 2000.

Also a new routine XLFCRC to compute CRC's, both 16 and 32 bit. See DBIA 3156 for details.

2.114.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XLFCRC	n/a	568962	**166**
XLFDT	4050775	4352260	**71,120,166**

List of preceding patches: 120

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFDT

Routine Checksum:

Routine Name: XLFCRC

Routine Checksum:

2.114.3 Installation

Note: Users may remain on the system. TaskMan may remain running.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

4. Users can remain on the system. This patch can be queued and installed at any time.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*166'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.115 XU*8*167 SEQ #144: TaskMan Fix for XU*8*163

Category: Routine

2.115.1 Description

Numerous NOIS's found a problem in the TaskMan Monitor after installing XU*8*163. Patch *163 set the %ZTSCH node rather than %ZTSK node. This patch should be install immediately after *163 is installed.

POST^ZTMS2 was added to ZTMS2 to clean-up nodes that were corrupted by patch *163. The KIDs post-init will call this tag to clean-up the nodes.

NOIS CHA-0800-30357 is the primary NOIS tracking this fix.

2.115.2 Routines

The following routine(s) are included in this patch. The second line of each routine will look like:

```
<tab>;;8.0;KERNEL;**[Patch List]**;07/10/95
```

Checksums: CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
ZTMS2	6602171	6724503	2,18,23,36,67,118,127,163,167

Routine Information:

Routine Name: ZTMS2

Routine Checksum:

2.115.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.

2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. Stop TaskMan and stop other background filers. "DO STOP^ZTMKU"
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*167
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.
8. After installing this patch:
 - OpenM Sites - you do not need to move anything, skip this step.
 - DSM/MSM Sites - you need to move a total of 1 routine from your production account to each manager account: ZTMS2
9. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 167
10. DSM Sites, after patch has installed, rebuild your map set.
11. Restart TaskMan with "D RESTART^ZTMB. DSM sites this may require a privileged user.

2.116 XU*8*151 SEQ #145: TaskMan Parameters in Scheduled Tasks

Category: Routine

2.116.1 Description

IVM-0400-31566

An option queued in the Option Scheduling file that did not have a rescheduling frequency would not have the ZTQPARAM variable or other parameters available. This was because the entry was deleted from the option schedule file before the variables were setup. The fix was to set- up the variables first.

It has been found in testing at Bay Pines that if the call to the DNS times out the XLFNSLK routine fails to close the device used to call the DNS. This causes the calling routine to get an error. Fix to see that on a time- out the device is closed.

2.116.2 Routines

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;June 25, 1999
```

Checksum

Routine	Old	New	2nd Line
XLFNSLK	7523173	7558282	**142,151**
XQ1	11958439	11902300	**1,15,59,67,46,151**

List of preceding patches: 46, and 142

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XQ1

Routine Checksum:

Routine Name: XLFNSLK

Routine Checksum:

2.116.3 Installation

Note: Do not allow users to log in to the system during installation.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER/NOSOURCE errors is acceptable, then users can stay on the system.) Also, place TaskMan in a wait state. Option: Place TaskMan in a Wait State.
5. Use "D ^XPDKRN" then:
 - Install Package(s) 'XU*8.0*151'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.
7. Allow users to sign-on.
 - Remove TASKMAN from the wait state.
 - Option: Remove TaskMan from WAIT State

2.117 XU*8*162 SEQ #146: Fix Error Recording

Associated patches:

(v)XU*8*107	install with patch `XU*8*162'
(v)XU*8*118	install with patch `XU*8*162'
(v)XU*8*136	install with patch `XU*8*162'

Category: Routine

2.117.1 Description

Note there are routines that need to be moved as part of this patch.

NOIS	Description
BRX-0999-10965	The error trap does not record any data for stack overflow of allocation errors. Before on an allocation error we would call the M vendors error trap. The current vendors error trap tries to set variables and also gets an error. The fix to this problem was to do an exclusive kill to get some room and then record the error. For stack overflow error, we pop the stack back 8 levels so we have some room for our do's.
BAY-0600-31579 MIN-0600-41387	When adding a HUNT GROUP device to the IO queue the device type wasn't added at the top level. This would cause errors at I2+2^%ZTMS1. Fixed to set the correct node. ZTM4
ISL-1199-51207	When trying to restore the variables on a Cache system XTER2 would get an error. The special Cache data item from \$ZU(56) is stored. This was fixed by changing the name from OpenM_ZU to \$ZU(... then %ZTER saves it because XTER2 already knows not to restore anything that starts with a "\$".
NVS call	The new TaskMan parameter Balance interval was not getting picked up correctly. Fixed to get the right data. ZTM5

Request from the Mailman developer to save off data in ZTLOAD so user can queue reports to p-message. Change to ZTLOAD1.

For standard VA systems the new routine ZUSET will rename the correct ZU* routine to ZU for the site.

2.117.2 Routines

Routine Summary

The following routines are included in this patch.

The second line of each of these routines now looks like:

```
::8.0;KERNEL;<patchlist>;JUL 10, 1995
```

Checksum

Routine	Old	New	2nd Line
ZTER	18980475	18198227	**8,18,32,24,36,63,73,79,86,112,118,162**
ZTER1	4369079	4369129	**18,24,36,49,112,162**
ZTLOAD1	6808427	6923394	**112,118,127,162**
ZTM4	2164226	2223405	**1,118,127,162**
ZTM5	4417939	4418054	**24,36,118,127,136,162**
ZTMS	5488776	5607220	**2,18,24,36,67,94,118,127,136,162**
ZUMSM	3349196	3457106	**13,42,49,94,107,162**
ZUONT	1992793	2038011	**34,94,118,162**
ZUSET	n/a	751876	**162**
ZUVXD	4517687	4620305	**13,24,84,94,118,162**

List of preceding patches: 107, 118, 136

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZTER

Routine Checksum:

Routine Name: ZTER1

Routine Checksum:

Routine Name: ZUMSM

Routine Checksum:

Routine Name: ZUONT

Routine Checksum:

Routine Name: ZUSET

Routine Checksum:

Routine Name: ZUVXD

Routine Checksum:

Routine Name: ZTM4

Routine Checksum:

Routine Name: ZTM5

Routine Checksum:

Routine Name: ZTMS

Routine Checksum:

Routine Name: ZTLOAD1

Routine Checksum:

2.117.3 Installation

Note: Users may remain on the system. TaskMan needs to be placed in a wait state.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch cannot be queued. Also, place TASKMAN in a wait state. Option: Place Taskman in a WAIT State, stop sub-managers.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*162'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZTER
 - ZTER1
 - ZTLOAD1
 - ZTM4
 - ZTM5
 - ZTMS
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 162
8. Remove TASKMAN from the wait state. Option: Remove TaskMan from WAIT State
9. DSM Sites, after patch has installed, rebuild your map set.

2.118 XU*8*168 SEQ #147: HL7 Date Fix

Category: Routine

2.118.1 Description

When placed in production the change in HL7 to call the XLFDT routine for HL7 to FileMan date conversion exposed an existing bug in the HL7TFM code. This patch corrects that problem.

2.118.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XLFDT	4352260	4356861	**71,120,166,168**

List of preceding patches: 166

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFDT

Routine Checksum:

2.118.3 Installation

Note: Users may remain on the system. TaskMan may remain running.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time.
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*168'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. DSM Sites, after patch has installed, rebuild your map set.

2.119 XU*8*170 SEQ #148: XQ1 and ZUONT fixes

Category: Routine

2.119.1 Description

Note: Users will need to be off the system during this install
TaskMan will need to be in a wait state during this install.

NT sites need to install patch XU*8*162 and XU*8*170 together. Make sure you have Patch XU*8.0*162 and XU*8.0*170 before going any further. XU*8*162 is required for this patch but there is a problem with routine ZUONT which has big impact on NT sites. After installing patch XU*8*162, no users are allowed on the system.

To avoid the problem:

Inhibit log on and install patch XU*8.0*162 per instructions make sure you have a session logged in at programmer mode and immediately install patch 170 per instructions in this patch. Allow users back in the system.

CMH-0800-N3105

Patch XU*8*162 made a call to \$\$AVJ^%ZOSF in place of \$\$AVJ^%ZOSV in ZUONT. This caused a NOLINE error. Fixed to make the correct call, this affects Cache sites only.

MVW-0800-22126, NJH-0800-22956, TAM-0800-32655, CLA-0800-22898 MAC-0900-60221

Patch XU*8*151 did fix the use of the ZTQPARAM variable or other parameters available if the scheduled option didn't have a re-queue frequency but if the option was on a schedule it broke the re-schedule. This patch fixes the re-scheduling. As part of the post INIT it will go thru the Scheduled options (file 19.2) and reschedule any that have a past date after 8/19/2000 to run.

2.119.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XQ1	11902300	12116128	**1,15,59,67,46,151,170**
XUTMPCH	n/a	930054	**170**
ZUONT	2038011	2038331	**34,94,118,162,170**
ZUSET	751876	1042105	**162,170**

List of preceding patches: 151, 162

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XQ1

Routine Checksum:

Routine Name: ZUONT

Routine Checksum:

Routine Name: XUTMPCH

Routine Checksum:

Routine Name: ZUSET

Routine Checksum:

2.119.3 Installation

Note: Do not allow users to log in to the system during installation.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global

- Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. Get all current users off the system or they will get an EDITED error when they return to the menu system. Also place TASKMAN in a wait state. Stop BACKGROUND task or they will get an EDITED error when done.
 5. Use "D ^XPDKRN" then:
 - Install Package(s) 'XU*8.0*170'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. This routine will rename the correct routine to ZU for you. Rename ZUONT to ZU, OK? No//
 - Cache sites answer YES
 - DSM sites answer NO
 - DSM Sites, after patch has installed, rebuild your map set.
 7. Allow users to sign-on.
 8. Remove TASKMAN from the wait state

2.120 XU*8*150 SEQ #149: Broker Division Support

Associated patches:

(v)XU*8*99	must be installed BEFORE `XU*8*150'
(v)XU*8*115	must be installed BEFORE `XU*8*150'
(v)XU*8*134	must be installed BEFORE `XU*8*150'
(v)XU*8*165	must be installed BEFORE `XU*8*150'

Category: Routine

2.120.1 Description

This patch is in support of the following Broker NOIS

ISW-1299-21488, ISW-1299-22382

This patch also adds a new field to the new person file under the Division field. This new field is Default and is used by the GUI log-on to select one division to pre-select. This is only needed for users that have more than one division.

This patch updates the EDIT AN EXISTING USER form. This form was also changed by patch XU*8*134 (Name Standardization).

This patch also provides support for the Broker User Info properties.

MIW-0500-42196 XUS1

Patch XU*8*165 broke the auto sign-in (single sign-in). The routine was already in this patch so the fix was added to the routine.

Blood Bank Team Coordination

Clearance - August 17,2000

2.120.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XUS1	10540362	10615522	**9,59,111,165,150**
XUSER	1616062	2107735	**75,97,99,150**
XUSRB	6041270	6120921	**11,16,28,32,59,70,82,109,115,165,150**
XUSRB2	783689	1351749	**115,150**
XUSRB4	n/a	1401530	**150**

List of preceding patches: 99, 115, 165

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUS1

Routine Checksum:

Routine Name: XUSRB

Routine Checksum:

Routine Name: XUSRB2

Routine Checksum:

Routine Name: XUSRB4

Routine Checksum:

Routine Name: XUSER

Routine Checksum:

2.120.3 Installation

Note: Users may remain on the system.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
5. This patch can be queued for install at non-peak hours. TaskMan can remain running. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*150'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.121 XU*8*178 SEQ #150: KIDS Backup Message Subject too Long

Associated patches

(v)XU*8*58	must be installed BEFORE `XU*8*178'
(v)XU*8*108	must be installed BEFORE `XU*8*178'

Category: Routine

2.121.1 Description

Bug Fixes

When using option "Backup a Transport Global" [XPD BACKUP], MailMan allows a maximum of 63 characters for it's 'Subject'. It is possible that with the combination

of the Name of the Package and other parts of the suggested 'Subject' that the length will become longer than the 63 character limit. The 'help' also did not suggest what the possible problem was and if the user up-arrowed "^", no back-up message would be created. This patch corrects the 'help' so the user will now know the 'Subject' is a 3 to 63 character response. This patch will also truncate to the Left Most 63 characters, the user may then edit the 'Subject' to their individual needs.

```

** Before Example **
Select Installation Option: Backup a Transport Global
Select INSTALL NAME:      HEPATITIS C EXTRACT TEST VERSION 5.0  Loaded from
Distribution 10/17/00@08:54:47
=> TESTING LONG BACKUP NAME

This Distribution was loaded on Oct 17, 2000@08:54:47 with header of
TESTING LONG BACKUP NAME
It consisted of the following Install(s):
HEPATITIS C EXTRACT TEST VERSION 5.0
Subject: Backup of HEPATITIS C EXTRACT TEST VERSION 5.0 install on
Oct 17, 2000  Replace <rtn>

Enter the subject for this Packman Backup Message.
Subject: Backup of HEPATITIS C EXTRACT TEST VERSION 5.0 install on
Oct 17, 2000  Replace ^
<and no back-up message is created>

```

After Example - Notice the truncation on the right.

```

Select Installation Option: 5  Backup a Transport Global
Select INSTALL NAME: HEPATITIS C EXTRACT TEST VERSION 5.0      Loaded from Dist
ribution      Loaded from Distribution 10/16/00@12:42:28
=> TESTING LONG BACKUP NAME

This Distribution was loaded on Oct 16, 2000@12:42:28 with header of
TESTING LONG BACKUP NAME
It consisted of the following Install(s):
HEPATITIS C EXTRACT TEST VERSION 5.0
Subject: Backup of HEPATITIS C EXTRACT TEST VERSION 5.0 install on Oct 1
Replace ?
Enter the subject for this Packman Backup Message
This response must have at least 3 characters and no more than 63
characters and must not contain embedded uparrow.

Subject: Backup of HEPATITIS C EXTRACT TEST VERSION 5.0 install on Oct 1
Replace
Loading Routines for HEPATITIS C EXTRACT TEST VERSION 5.0.
Send mail to: ORMSBY,SKIP//

Nois: NYH-0800-10995
Routine: XPDIB

```

Documentation Changes

None

Blood Bank Team Coordination

Clearance - Oct 19, 2000

NOISes

NYH-0800-10995

Thanks to Test Sites

NEW YORK HCS

2.121.2 Routines

The following routines are included in this patch. The second line of these routines now look like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XPDIB	3407499	3266120	10,58,108,178

Routine Information

Routine Name: XPDIB

Routine Checksum:

2.121.3 Installation Instructions

This patch can be installed with VISTA users online. However, it is recommended that it be Queued for a time of generally least activity. TaskMan does not need to be STOPPED or placed in a WAIT state.

1. AXP/DSM sites: Review your mapped routine set. If any of the routine(s) listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set at this time.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a transport global on your system. You now need to use KIDS to install the transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
5. On the KIDS menu, under the 'Installation' menu, use the following option:

- Select Installation Option: Install Package(s)
 - Select INSTALL NAME: XU*8.0*178
 - Answer 'NO' to 'Want KIDS to INHIBIT LOGONs during the install?'
 - Answer 'YES' to 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? **>> It is suggested that Option:
 - Backup a Transport Global [XPD BACKUP] be placed OUT OF ORDER.
6. AXP/DSM Sites - After the patch has been installed, rebuild your map set, if necessary.

2.122 XU*8*149 SEQ #151: No Access Allowed for this User

Associated patches:

(v)XU*8*32	must be installed BEFORE `XU*8*149'
(v)XU*8*59	must be installed BEFORE `XU*8*149'
(v)XU*8*110	must be installed BEFORE `XU*8*149'
(v)XU*8*153	must be installed BEFORE `XU*8*149'

Category: Routine

2.122.1 Description

NOIS	Description
HUN-0800-22470 BAY-0600-31674	The change that patch XU*8*153 made to "prohibited times for sign-on" did not work as planed. This patch also add a new message to tell the user that is blocked from sign-on what the prohibited time are
ANN-0598-41422	The message of "No Access Allowed for this User" was not helpful so a new message has been added to the sign-on to report that the user doesn't have a PRIMARY MENU or KEY to assist IRM with evaluating user problems. Here is the new message: No PRIMARY MENU assigned to user or User is missing KEY to menu!

2.122.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XQCHK	18037162	18364121	**47,110,149**

Routine	Old	New	2nd Line
XUS	8138431	8139177	**16,26,49,59,149**
XUS1A	7137988	5648404	**153,149**
XUS3	5732668	5735173	**32,149**

List of preceding patches: 32, 59, 110, 153

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XQCHK

Routine Checksum:

Routine Name: XUS

Routine Checksum:

Routine Name: XUS1A

Routine Checksum:

Routine Name: XUS3

Routine Checksum:

2.122.3 Installation

Note: Do not allow users to log in to the system during installation. Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
4. Backup a Transport Global
5. Current users can remain on the system. Inhibit new users from login into the system.

6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*149'
 - No Options or Protocols need to be placed out-of-order. Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 - DSM Sites, after patch has installed, rebuild your map set.
7. Allow new users to login to the system.

2.123 XU*8*176 SEQ #152: Fix to VA# and DEA#

Category: Data Dictionary

2.123.1 Description

MIA-0700-30488, LEB-0800-20388, DAY-1000-40325, and SBY-1000-30177

Patch XU*8*165 unintentionally send all fields in file 200 not just the ones needed for the patch. This patch fixes the problem caused in the DEA# and VA# fields. The main problem was a change made to the cross-reference of each field. The post-INIT will reindex the data to setup the cross-reference. Some experimental fields from the development account were send and will be removed. Routine XUINPCH3 is just the Post-INIT routine. The description was changed on other fields.

The fields being loaded: 53.1,53.2,53.3,53.4,53.6,53.7,53.8,54.1

Name Standardization: Spaces within Suffixes

ANN-0800-42960 and MAN-0800-12845

Background

The Name Standardization Patch (Kernel Patch XU*8.0*134), which was released on April 6, 2000, includes a data conversion run as part of the Post-Installation of that patch. The data conversion converts all names stored in the .01 field of the New Person file to standard form. It also parses each name into its component parts (Given Name, Middle Name, Family Name, and Suffix), and stores those component parts in the Name Components file (#20) also released with the patch.

Problem

The data conversion looks for specific suffixes at the end of the name, such as MD, PHD, and DDS. However, it was not accounting for suffixes that contain periods, such as M.D., Ph.D. and D.D.S. When the data conversion finds a name with a suffix that contains periods the name could be incorrectly parsed.

For example, suppose the name as stored in the .01 field of the New Person file before patch XU*8.0*134 was installed was:

Original name: SMITH,JOHN M.D.

The result after the data conversion would be:
New standardized name: SMITH,JOHN M D

Name components as stored in the Name Components file:

Given: JOHN M.

Middle: D.

Family: SMITH

Suffix:

Note that in the above, the suffix M.D. was not recognized as a suffix. 'M' was considered part of the person's first (given) name, and 'D' was considered the middle initial.

Solution

In order to correct names that were parsed incorrectly by the data conversion, routine XLFNP176 is included in this patch. The FIX^XLFNP176 entry point loops through the entries in the New Person file and looks for names that may have been standardized and parsed incorrectly. It will then optionally correct the name in the New Person file and the corresponding name components in the Name Components file.

Note: Sites should still install patch XU*8*134. The FIX^XLFNP176 entry point is designed to run on systems on which the data conversion has already been run.

FIX^XLFNP176 Description

This directly mode utility loops through all entries in the New Person file (#200) and looks in the .01 field for names that end in any of the following strings (without the single quotes (')):

' M D'
' D D S'
' P H D'
' R N'
' D P M'
' D O'
' P A'
' N P'
' C R N A'
' L P N'

If it finds any of the above strings at the end of the name, it assumes that string is a suffix. It removes the spaces from the suffix and stores the modified name in the .01 field of the New Person file. It also stores the suffix (without embedded spaces) in the Suffix field (#5) of the corresponding entry in the Name Components file.

For example, if FIX^XLFNP176 finds a name in the .01 field of the New Person file

stored as: Name: SMITH,JOHN M D it assumes M D is a suffix, and changes the name to SMITH,JOHN MD. It also stores MD in the SUFFIX field (#5) in the Name Components file.

How to use:

FIX^XLFNP176 can be run with VISTA users online. However, it is recommended that it be run during non-peak times.

Run FIX^XLFNP176 from programmer mode:

```
>D FIX^XLFNP176
```

The routine need only be run once to fix the problem.

Customizing the list of problem suffixes checked by FIX^XLFNP176. If you wish to modify the list of problem suffixes checked by XLFNP176, you can edit the text at line tag LINE^XLFNP176. Replace the list with an up-arrow (^)-delimited list of suffixes that may occur at the end of the Names stored in your New Person file.

2.123.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
::8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XLFNP176	n/a	9524118	**176**
XUINPCH3	555958	1351290	**115,176**

List of preceding patches: 115

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUINPCH3

Routine Checksum:

Routine Name: XLFNP176

Routine Checksum:

2.123.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch can be queued and installed at any time. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*176'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.124 XU*8*154 SEQ #153: Illegal Number Error

Category: Routine

2.124.1 Description

HOU-0198-70327

This patch corrects the %DSM-E-NUMBER, illegal number error should an extraordinarily long be entered (usually caused by something or someone hand laying on the keyboard). An example is display below:

```

Core Applications ...
Device Management ...
FM  VA FileMan ...
    Manage Mailman ...
    Menu Management ...
    Programmer Options ...
    Operations Management ...
-----
    Spool Management ...
    System Security ...
    Taskman Management ...

```


2.124.3 Installation Instruction

1. Users are allowed to be on the system during the Installation.
2. Routine mapping is NOT recommended for these routines. If you are using routine mapping, review your mapped set and ensure that these routines are NOT in your mapped routine set before proceeding and rebuild your map set afterward before reactivating TaskMan.
3. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
4. You Do Not need to stop TaskMan or the background filers.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*154
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and
 - Protocols? YES// NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

2.125 XU*8*181 SEQ #154: API for Last Patch

Category: Routine

2.125.1 Description

This patch adds an API that will return the last patch (and date) that has been applied to a package, PATCH^DATE. If the patch is either a test version or non-released patch the patch number will be returned. If the last patch applied is a released patch the patch number and sequence number will be returned. A -1 will be returned in the case that no patches exist. The users will be required to pass the package name and can optionally supply the version, otherwise the current version of the package will be

used.

Example: `$$LAST^XPDUTL("package name","[version]")`

This API will be added to support DBIA 10141.

2.125.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDUTL	2998458	3806531	21,28,39,81,100,108,137,181

List of preceding patches: 137

Routine Information

Routine Name: XPDUTL

Routine Checksum:

2.125.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":

- Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*181
 - Logons do not need to be inhibited. No Options or Protocols need to be placed out-of-order
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
 8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.126 XU*8*182 SEQ #155: KIDS Build Component for RPC

Category: Routine

2.126.1 Description

This patch adds RPCs CRC32 entries to the KIDs Build Components. Sites will be able to SEND or DELETE RPC CRC32's via the build components.

2.126.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDE	15204188	15289814	2,15,21,44,51,68,131,182
XPDIA1	10996284	11277555	2,44,51,58,68,85,131,146,182

List of preceding patches: 146

Routine Information

Routine Name: XPDE

Routine Checksum:

Routine Name: XPDIA1

Routine Checksum:

2.126.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*182
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.127 XU*8*175 SEQ #156: Set User for Startup Tasks

Associated patches:

(v)XU*8*136	must be installed BEFORE `XU*8*175'
(v)XU*8*167	must be installed BEFORE `XU*8*175'

Category: Routine

2.127.1 Description

BRX-0900-12121

With changes to the security checks that Mailman makes before allowing a message to be sent, any tasks that TaskMan start as part of the system startup need to have the DUZ set to a valid user. After talking with the DBA it was decided to have TaskMan use POSTMASTER as the user (DUZ=.5). This change will only affect tasks started when TaskMan first starts, that have the special queuing field set to STARTUP or Startup Persistent. ZTM0 is the routine that has been changed for this patch.

To support P-MESSAGE a change was made to ZTMS3 to move the clean-up of temp globals to after the device has been closed.

ATG-0700-31453

In working with NVS it has been found that at times the persistent task restart code is too good and schedules many copies of the same task before one starts and signals that it is running. The other copies get caught waiting for a lock on the global node ^%ZTSCH("TASK",<task>). This has been fixed by using a timeout on earlier lock before the task is setup. This change was made in ZTMS2.

XUTMOPT is included to provide an API for applications to check on scheduled tasks.

2.127.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Checksum Before	Checksum After	Patch List
XUTMOPT	4026913	4559820	**2,111,112,118,127,175**
ZTM0	6089712	5998062	**42,36,67,88,118,127,136,175**
ZTMS2	6724503	7001305	**2,18,23,36,67,118,127,163,167,175**
ZTMS3	9642200	9642200	**1,18,36,49,64,67,94,118,127,136,175**

List of preceding patches: 136, 167

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZTM0

Routine Checksum:

Routine Name: ZTMS2
Routine Checksum:

Routine Name: ZTMS3
Routine Checksum:

Routine Name: XUTMOPT
Routine Checksum:

2.127.3 Installation

Note: Users may remain on the system. TaskMan does need to be stopped.

1. DSM sites - This routines maybe mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system Also place TASKMAN in a wait state.
5. Use option: Place Taskman in a WAIT State
6. In Programmer mode:
 - Use "D ^XPDKRN" then
 - Install Package(s) 'XU*8.0*175'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. After installing this patch
8. Cache Sites - you don't need to move anything, skip this step.
9. DSM/MSM sites - you need to one several routine from your production account to each manager account:

- ZTM0
 - ZTMS2
 - ZTMS3
10. And in the manager account, (OpenM sites remain in VAH)
11. All sites:
- DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 175
12. DSM Sites, after patch has installed, rebuild your map set.
13. Remove TASKMAN from the wait state. (DO RUN^ZTMKU)

2.128 XU*8*148 SEQ #157: Mail Msg/Group Removal

Associated patches: (v)XU*8*135 must be installed BEFORE `XU*8*148'

Category: Routine

2.128.1 Description

When 'Deactivate a User' is selected the Mail Messages and Groups were being purged regardless of the users request. XUSTERM was modified to take into account the users response to 'Delete all Mail Access?' question. This problem has reported in NOIS: CTX-0300-70949.

2.128.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XUSTERM	13878375	13933270	36,73,135,148

List of preceding patches: 135

Routine Information

Routine Name: XUSTERM

Routine Checksum:

2.128.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*148
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.129 XU*8*171 SEQ #158: Add DELSTAT API for Alerts

Category: Routine

2.129.1 Description

This patch adds the DELSTAT API to the alert functionality to provide information on whether an alert has been deleted for various users. The API was requested for CPRS functionality.

DELSTAT - For the most recent alert with XQAIDVAL as the PackageID passed in,

on return array VALUES contains the DUZ for users in VALUES along with an indicator of whether the alert has been deleted or not, e.g., DUZ^0 if not deleted or DUZ^1 if deleted. Note that contents of VALUES will be killed prior to building the list.

Example: D DELSTAT^XQALBUTL("OR;14765;23",.RESULTS)

Returned: The value of RESULTS indicates the number of entries in the array. The entries are then ordered in numerical order in the RESULTS array.

- RESULTS = 3
- RESULTS(1) = "146^0" User 146 - not deleted
- RESULTS(2) = "297^1" User 297 - deleted
- RESULTS(3) = "673^0" User 673 - not deleted

2.129.2 Routines

The following routines are included in the patch. The second line of each of these routines now look like this:

```
;;8.0;KERNEL;*[patch list]**; Jul 05, 1995
```

Checksums were obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQALBUTL	4983080	8443097	**114,125,171**

Routine Information

Routine Name: XQALBUTL

Routine Checksum:

2.129.3 Installation Instructions

1. These routines are not usually mapped on systems that allow mapping so you may not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System

- Verify Checksums in Transport Global
 - Backup a Transport Global
 - Install Package XU*8.0*171
4. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP sites should answer "no" to this question.
 5. Rebuild your mapped set if necessary.
 6. If users are allowed to remain on the system during installation errors may occur when the routines are loaded.

2.130 XU*8*177 SEQ #159: Modified XQCS for Handling Multiple Contexts

Category: Routine, Data Dictionary, Other

2.130.1 Description

As a part of its security the RPC Broker requires that a Remote Procedure Call (RPC) be included within a Broker (Client/Server) or Context option, and that this option be included within the user's menu tree. This has resulted in some context options including hundreds of RPCs. This patch modifies XQCS to look also at the Items subfile (which has been used for menu items) within a context option, and if these point to other context options, the RPCs included in that context will be included as a part of the original context.

In addition, this patch modifies the ScreenMan option for Editing Options to add the ability to add context options within the ITEMS subfile. This modification was requested and tested by the developers working on a Patient Lookup object and Smart Card applications.

2.130.2 Routines

The following routines are included in the patch. The second line of each of these routines now look like this:

```
::8.0;KERNEL;*[patch list]**; Jul 05, 1995
```

Checksums were obtained using CHECK^XTSUMBLD

Routine	Before	After	Patch List
XQCS	12133342	13170786	15,28,82,116,115,177

Routine Information

Routine Name: XQCS

Routine Checksum:

2.130.3 Installation Instructions

1. These routines are not usually mapped on systems that allow mapping so you may not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Print Transport Global
 - Compare Transport Global to Current System
 - Verify Checksums in Transport Global
 - Backup a Transport Global
 - Install Package XU*8.0*177
5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP sites should answer "no" to this question.
6. Rebuild your mapped set if necessary.
7. If users are allowed to remain on the system during installation errors may occur when the routines are loaded.

2.131 XU*8*179 SEQ #160: HL7 to FM Trailing Zero Fix**Category:** Routine**2.131.1 Description****IV&V testing, Inpatient Meds, Pharmacy**

A problem was found during testing, where routine HL7TFM will return trailing zeros when converting a HL7 date. For example, conversion of a HL7 date like 200101091230 would return a value like 3010109.1230 and this causes a problem in sorting. There will be a follow-up patch to finish the changes to address correct conversion of Midnight.

Before w \$\$HL7TFM^XLFD(200101091230)--> 3010109.1230

After w \$\$HL7TFM^XLFD(200101091230)--> 3010109.123

2.131.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Checksum Before	Checksum After	Patch List
XLFDT	4356861	4357199	**71,120,166,168,179**

List of preceding patches: 168

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XLFDT

Routine Checksum:

2.131.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time. This patch can be queued for install at non-peak hours. TaskMan can remain running.

5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*179'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.132 XU*8*185 SEQ #161: Adding KIDS Notification

Category: Routine

2.132.1 Description

This patch modifies KIDS to send an installation notification to ESSRESOURCE@MED.VA.GOV. The information will be the same that is sent to FORUM when a patch is installed. This is in anticipation of the ESS system replacing NOIS.

2.132.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;**[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDIST	4011005	4129196	**66,108,185**

List of preceding patches: 108

Routine Information

Routine Name: XPDIST

Routine Checksum:

2.132.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.

3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*185
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.133 XU*8*132 SEQ #162: EDI/MRA Person Class Fix

Associated patches: (v)XU*8*106 - <<= must be installed BEFORE `XU*8*132'

Category: Routine

2.133.1 Description

This patch adds a new field with data to the Person Class file: Specialty Code. (P.S. data will be added via POST-INIT routine)

This field is necessary for the implementation of IB*2*51. Integrated Billing will use this field with the EDI Implementation software to transmit specialty codes with electronically submitted professional claims.

This patch also modifies routine XUA4A72, Person Class API's to return a specialty

code associated with a specific active class date.

A new label IEN2DATA(IEN) was also added to return person class data. (DBIA 1625)

Technical Description

Four routines are exported with this patch: XU8P132, XU8P1321, XU8P1322, XUA4A72.

All sites should install this patch. Users may remain on the system while this patch is being installed. Install time is less than 5 minutes.

2.133.2 Routines

The following is a list of the routine(s) included in this patch. The second line of each of these routine(s) will look like:

```
<tab>;;8.0;KERNEL; **[patch list]**; Jul 10, 1995
```

CHECK^XTSUMBLD results

Routine	Before Patch	After Patch	Patch List
XU8P132	N/A	5088077	132
XU8P1321	N/A	2699941	132
XU8P1322	N/A	2731502	132
XUA4A72	4441866	4512567	27,49,74,132

Routine Information

Routine Name: XUA4A72

Routine Checksum:

2.133.3 Installation Instructions

1. LOAD TRANSPORT GLOBAL
 - Choose the PackMan message containing this patch and invoke the INSTALL/CHECK MESSAGE PackMan option.
2. DISABLE ROUTINE MAPPING (DSM for Open VMS sites only)
 - Disable routine mapping on all systems for the routines listed in section 2.133.2.

Note: If the routines included in this patch are not currently in your mapped routine set, please skip this step.

- You DO NOT need to stop TaskMan or the background filers.

3. START UP KIDS

- Start up the Kernel Installation and Distribution System Menu [XPD MAIN]:

```
Edits and Distribution ...
Utilities ...
Installation ...
```

- Select Kernel Installation & Distribution System Option: Installation

```
Load a Distribution
Print Transport Global
Compare Transport Global to Current System
Verify Checksums in Transport Global
Install Package(s)
Restart Install of Package(s)
Unload a Distribution
Backup a Transport Global
Select Installation Option:
```

4. Select Installation Option:

Note: The following are OPTIONAL - (When prompted for the INSTALL NAME, enter XU*8.0*132):

- Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.
 - Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, DD's, templates, etc.).
 - Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.
5. Select Installation Option: Install Package(s)

This is the step to start the installation of this KIDS patch:

- Choose the Install Package(s) option to start the patch install.
 - When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//' answer NO.
 - When prompted 'Enter options you wish to mark as 'Out of Order': press <return>.
 - When prompted 'Enter protocols you wish to mark as 'Out of Order':, press <return>.
6. REBUILD MAPPED ROUTINES(S) (DSM for Open VMS sites only Optional - Include the routines distributed with this patch in the mapped routine set.

Note: This step is only necessary if you performed step 2 or if you wish to include the routines in your mapped set.

2.134 XU*8*183 SEQ #163: RDV Proper Setup of DUZ

Associated patches:

(v)XU*8*145 must be installed BEFORE `XU*8*183'

(v)XU*8*165 must be installed BEFORE `XU*8*183'

Category: Routine

2.134.1 Description

LAS-1000-62717, BOI-1000-52970 XUS1A, XUESSO1

During the early testing of RDV the DUZ value was hard set just before the call to the RPC. When the code was fixed to properly set DUZ the old code didn't get removed. This has been fixed.

2.134.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	Patch List
XUESSO1	4118958	4127624	**165,183**
XUS1A	5648404	5708683	**153,149,183**

List of preceding patches: 149, 165

Sites should use CHECK^XTSUMBLD to verify checksums

Routine Information

Routine Name: XUS1A

Routine Checksum:

Routine Name: XUESSO1

Routine Checksum:

2.134.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued and installed at any time. TASKMAN can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*183'
 - Want KIDS to INHIBIT LOGONs during the install? YES// YES
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.135 XU*8*188 SEQ #164: Fix to XU*8*177

Associated patches: (v)XU*8*177 must be installed BEFORE `XU*8*188'

Category: Routine

2.135.1 Description

This patch fixes a problem from patch XU*8*177. CPRS users noticed a slowdown after installing XU*8*177. This patch will correct the slowdown. Additionally, an invalid line tag was mistakenly called while the menu's are being rebuilt. The line tag call has been removed. This problem was reported in NOIS MAC-0101-60511. Other NOIS's that reference the same problem and used as test sites:

SLC-0101-52023 P KERNEL JAV R Terrible Slowdown
 SPO-0101-51997 P KERNEL LG R <NOLINE>^XQ81
 TOG-0101-10674 P KERNEL JAV R CPRS Running Extremely SLOW
 BIR-0101-30669 P KERNEL RN R Please look at attach error
 MAC-0101-60511 P KERNEL RN R Released XU*8*177

2.135.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XQCS	13170786	12939414	**15,28,82,116,115,177,188**

List of preceding patches: 177

Routine Information

Routine Name: XQCS

Routine Checksum:

2.135.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global

6. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*188
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 - AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion

2.136 XU*8*180 SEQ #165: Strong Verify Codes

Associated patches:

(v)XU*8*36	must be installed BEFORE `XU*8*180'
(v)XU*8*102	must be installed BEFORE `XU*8*180'
(v)XU*8*149	must be installed BEFORE `XU*8*180'
(v)XU*8*150	must be installed BEFORE `XU*8*180'

Category: Routine, Data Dictionary

2.136.1 Description

NOIS: DAY-1000-42520 Vista Security (Verify Code)

These changes are required to meet VHA DIRECTIVE 6210 Available at <http://vaww.va.gov/publ/direc/health/direct/vha6210d.pdf>

The rules listed below are from the Document "VA Account and Password Management Interim Policy"

- a. Controls shall be implemented to require strong passwords.

Passwords shall be at least eight characters in length, and contain three of the following four kinds of characters: letters (upper case and lower), numbers, and, characters that are neither letters nor numbers (like "#", "@" or "\$").
- b. Passwords shall be changed no less frequently than every 90 days. Information systems shall not permit re-assignment of the last three passwords used.
- c. Accounts that have been inactive for 90 days shall be disabled.

- d. To preclude password guessing, an intruder lock out feature shall suspend accounts after five invalid attempts to log on. Where round-the-clock system administration service is available, system administrator intervention shall be required to clear a locked account. Where round-the-clock system administration service is not available, accounts shall remain locked out for at least ten minutes.

Here is what was done based on the requirement from VHA POLICY:

Item a:

Because Vista has been case-insensitive for many years, we chose to retain this characteristic. This means that Vista only has three sets of characters to build a password from: alpha, numeric, and punctuation. The change from the past requirements is the new requirement for punctuation characters and an increase in length from 6 to 8 characters.

The Kernel XUS2 routine was changed to require that verify codes be composed of the following three groups of characters: alpha, numeric, and punctuation.

Item b.

This rule was implemented by changing the valid range in the data dictionary and then checking the value in the Kernel System Parameters file (#8989.3) and resetting the value if it is found to be greater than 90. Kernel has long kept old verify codes based on the date they were changed. A change has been made to limit the time frame for removal in option "Purge Log of Old Access and Verify Codes" [XUSERAOLD].

Item c.

This rule was implemented by making changes to the scheduled Kernel option 'Automatic Deactivation of Users' [XAUTODEACTIVEATE] routine XUSTERM1. This option has been changed to check each user's last sign-on date and if it is more than 90 days old, sets the DISUSER field for that user. If this happens the user will get a "No Access Allowed for this User." message when they try to logon.

Note: The DISUSER field is shown on the 'User Inquiry' and is on the second page of the Kernel option "Edit an Existing User" [XUSEREDIT].

Item d.

Kernel has always implemented a form of 'lockout'. Changes were made to the Kernel System parameters file DEFAULT # OF ATTEMPTS and DEFAULT LOCK-OUT TIME field's. The values in the KSP were checked and changed to meet the new limits for these fields.

Note: In addition, the sign-on code was changed to echo an asterisk (*) for each character entered. This follows the Microsoft Windows login style, which is a change from the VMS login style.

2.136.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Checksum Before	Checksum After	Patch List
XUINPCH4	n/a	786391	**180**
XUS	8139177	8362765	**16,26,49,59,149,180**
XUS2	14055468	15802718	**59,180**
XUS4	3275391	3759854	**180**
XUSPURGE	6034721	4746135	**180**
XUSRB	6120921	6227685	**11,16,28,32,59,70,82,109,115,165,150,180*
XUSTERM1	12539120	11515045	**102,180**
XUSTZ	3010944	3161912	**36,180**

List of preceding patches: 36, 102, 149, 150

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUS

Routine Checksum:

Routine Name: XUS2

Routine Checksum:

Routine Name: XUS4

Routine Checksum:

Routine Name: XUSPURGE

Routine Checksum:

Routine Name: XUSTERM1

Routine Checksum:

Routine Name: XUINPCH4

Routine Checksum:

Routine Name: XUSTZ
 Routine Checksum:

Routine Name: XUSRB
 Routine Checksum:

2.136.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system if installed at non-peak hours. There is a small chance that a user could get a CLOBBER error if they are signing on at the time the routines change. This patch can be queued and installed at non-peak time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*180'
 - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.137 XU*8*184 SEQ #166: KIDS Time Stamp for Aborts

Category: Routine

2.137.1 Description

This patch fixes a problem reported in NOIS BHS-1100-11427. When reviewing an install, site noticed that in the first lines of the printout it stated that the build would not be installed, yet the build was successfully installed. The problem is that the message stating that the build will not install was from a previous day's aborted install. KIDS appends the install messages together rather than overwriting re-attempts. A time stamp has been added when an install is aborted to help clear up the confusion.

2.137.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL; **[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPDI	13866769	14174075	10,21,39,41,44,58,68,108,145,184

List of preceding patches: 145

Routine Information

Routine Name: XPDI

Routine Checksum:

2.137.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global

- Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*184
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
 8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.138 XU*8*155 SEQ #167: Pattern Matching for the New Character Set

Category: Routine

2.138.1 Description

WCO-0300-51866

With the advent of the Cache 3.2 Operating system the underlying character set of ASCII has been changed to Latin I, an ISO standard that the VA supports. This change caused, however, an ancient piece of code to break that has been promulgated throughout the Menu System over the years which was used to change strings of code to all uppercase. White City experienced an endless loop when control characters were somehow entered into the prompt looking for an option name. This patch changes those errant lines of code to standard, Kernel calls to UP^XLFSTR().

While this problem was discovered in the Cache operating system environment, all sites must install this patch to avoid future problems as the VA migrates to the new character set.

Blood Bank

This patch was reviewed and approved by Blood Bank on 11/21/00.

2.138.2 Routines

The second line of these routines should look like this:

::8.0;KERNEL;*<Patch List>*;Jul 10, 1995

Routine	Checksum Before	Checksum After	Patch List
XQ11	10587910	10802256	155
XQ7	2523046	2648795	44,60,155
XQSET	11252847	11378596	28,82,155
XQSRV	9902131	10172674	155
XQSRV5	18958753	19104128	155
XQT	14503760	14728981	20,47,46,37,155
XQT3	13422394	13658700	46,37,155

Sites should use CHECK^XTSUMBLD to verify checksums.

2.138.3 Installation

Note: Users may remain on the system.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. This patch can be queued for install at non-peak hours.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*155'
 - Logins do not need to be inhibited during the install.
 - Want KIDS to inhibit logins during the install? NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. Rebuild your mapped set if necessary.

7. If users are allowed to remain on the system during installation <NOSORCE> or <CLOBBER> errors may occur. While these errors are annoying to the user, they are dangerous. It is always best to apply patches during non-peak hours

2.139 XU*8*126 SEQ #168: Institution File Cleanup

Associated patches:

- (v)DVBA*2.7*32 install with patch `XU*8*126'
- (v)RMPF*2*16 install with patch `XU*8*126'
- (v)XU*8*43 must be installed BEFORE `XU*8*126'
- (v)XU*8*112 must be installed BEFORE `XU*8*126'
- (v)DG*5.3*357 must be installed BEFORE `XU*8*126'
- (v)MPIF*1*16 must be installed BEFORE `XU*8*126'

Category: Routine, Data Dictionary, and Other

2.139.1 Description

The purpose of this patch is to provide the sites with utilities that facilitate the clean up of the INSTITUTION (#4) file, to populate the local INSTITUTION (#4) file with a complete list of national facilities with station number, to implement a Master File Server mechanism that maintains national Institution entries automatically, to modify the INSTITUTION (#4) file Data Dictionary preventing local editing of national data and adding historical time sensitive data fields, and to provide Application Programmer Interface to return Institution and Institution time sensitive information.

The clean up and the national file - Institution Master File

The clean up utilities will 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 be included to resolve duplicate station numbers and to automatically populate the local INSTITUTION (#4) file with national IMF data.

The INSTITUTION (#4) file clean up utilities utilize the query functionality provided by the Master File Server mechanism implemented with this patch. The data is returned to the local site that stores the IMF data in a temporary global. The clean up utilities use this information for comparing and displaying the data, as well as automatically updating the local INSTITUTION (#4) file.

The Institution Master File (IMF) is made up of information collected from the VISNs by the Office of Policy and Planning, the official spreadsheet of station numbers distributed by Central Office, and information provided by the Austin Automation Center and the National DataBase Integration (NDBI) team.

The clean up utilities are presented to the user via a List Manager interface. The main List Manager screen displays INSTITUTION (#4) file vs. IMF file data. There are

several actions associated with this main screen. They are 'Delete local/dup. station #', 'List local station numbers', 'List national data to merge', 'Auto update with national data', and 'Required clean-up actions'.

Main Screen: Name list INSTITUTION (#4) file vs. IMF

This main screen displays a side-by-side view of the current INSTITUTION (#4) file and its corresponding IMF entry sorted by station number. Note some lines may not have both an INSTITUTION (#4) name and IMF name. The reasons why there may not be an entry in both columns are: station numbers in the INSTITUTION (#4) file not in the IMF or IMF entries missing from the INSTITUTION (#4) file (see 'List local station numbers' and 'List national data to merge'). Since the purpose of this list is to compare the local file vs. the IMF (sorted by station number), if duplicate station numbers in the local file exist they are not displayed twice. The 'Delete local/dup. station #' action is used to fix/view these duplicates.

2.139.1.1 Actions of the Main List Manager Screen

List local station numbers

This action checks for and displays any station numbers that are found in the INSTITUTION (#4) file but are not included in the IMF. These local station numbers are automatically deleted by the 'Delete local/dup. station #' associated action. You may run this list prior to 'Delete local/dup. station #' to view local station numbers that will be deleted.

<p>Note: The 'Delete local/dup. station #' action will remove these local station numbers.</p>

A new cross-reference `^DIC(4,"AOLD99",IEN,station_number)` will exist for deleted STATION NUMBER (#99).

Delete local/dup. station #

This action will first remove any local STATION NUMBER (#99) from the INSTITUTION (#4) file. It then checks for any duplicate station numbers. For each set of duplicates, the action checks if one entry in the set is pointed to by the LOGICAL LINK (#870) file; if so, that entry is kept and the value of the STATION NUMBER (#99) field of the other duplicate entries are deleted. If any set of duplicates remain (the set having no pointer from file #870), the action then displays them. The display lists line number, station number, institution name, and the internal entry number of the INSTITUTION (#4) file entry. An action is associated with this list to automatically delete the duplicate station number by selecting the line number of the entry to be affected; this deletion is of the STATION NUMBER (#99) field and not the INSTITUTION (#4) file entry itself.

Since the INSTITUTION (#4) file is referenced by numerous packages, there is probably no one correct entry to select for station number deletion -- for those entries

where the NAME (#.01) does not clearly indicate the correct choice. The important thing is to resolve the duplicate. If a problem in a specific package should arise, that issue may have to be dealt with on a case-by-case basis. The patch does implement an API, \$\$O99^XUAF4(IEN), and cross-reference, "O99", that may be used to resolve (re-point) any package specific issues. See below for more information about the API and cross-reference.

All duplicate stations numbers must be resolved before the 'Auto update with national data' action will allow the site to auto update their INSTITUTION (#4) file with the IMF data.

Any STATION NUMBER (#99) that is automatically deleted will be displayed in the Action Area of the List Manager screen to denote processing. To get a proper list of local station numbers to be deleted, use the action 'List local station numbers' PRIOR to running this action! The duplicate station numbers that are auto-resolved in favor of the file #870 pointer are only displayed in the Action Area following the listing of deleted local station numbers (with associated DIR End-Of-Page prompt). This is the only place these type of duplicates are listed, although, all deleted STATION NUMBER (#99) field values are stored in a new cross-reference. A new cross-reference ^DIC(4,"AOLD99",IEN,station_number) will exist for any deleted STATION NUMBER (#99).

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

Also note, other applications including AMIE, Record Tracking, and CIRN PD/MPI may be negatively affected if their pointers to an INSTITUTION (#4) file entry don't have a valid STATION NUMBER (#99).

List national data to merge

This action checks for and displays any station numbers that are in the IMF but not found in the INSTITUTION (#4) file. This list is informational only and has no actions associated with it. Sites may wish to print this list before running 'Auto update with national data' to see which entries will be added to the INSTITUTION (#4) file.

Auto update with national data

This action will automatically update the INSTITUTION (#4) file with IMF data. This action will first check for duplicate station numbers. If any duplicates are found the action will notify the user and suspend the update until the duplicates are resolved (see 'Delete local/dup. station #').

If no duplicate station numbers are found the update begins. First it will clean out any data stored in the *STATION NAME (#7) field and then remove any local station numbers stored in STATION NUMBER (#99) field; only nationally approved station numbers are allowed. Any entry with a STATUS (#11) of INACTIVE will have the INACTIVE FACILITY FLAG (#101) set and the STATUS (#11) field value deleted. Next it will merge the IMF data with the site's INSTITUTION (#4) file; this includes setting the STATUS (#11) flag to national, and populating the fields NAME (#.01), STATION NUMBER (#99), OFFICIAL VA NAME (#100), FACILITY TYPE (#13), and STATE (#2). Inactive facilities and deactivated station numbers will have the INACTIVE FACILITY FLAG (#101) set. Integrated/realigned facilities will have a pointer to/from the new/old INSTITUTION (#4) file entry together with the effective date; these values will be stored in the HISTORY (#4.999) sub-file fields EFFECTIVE DATE (#.01), REALIGNED TO (#.05), and REALIGNED FROM (#.06).

The auto update action will take approximately 5-10 minutes and the terminal will hang until complete. This should complete the clean up, but run the action 'Required clean-up actions' to verify there are no further duplicates and that all IMF data merged correctly.

2.139.1.2 Required clean-up actions

This action may be run at any time to determine which steps are required to successfully complete the INSTITUTION (#4) file clean up. It first checks for duplicate station numbers and any missing IMF data. If any discrepancies are found, they are displayed with the appropriate resolving action. If no discrepancies are found, the user will be notified the update is complete. The following new components are provided for the clean up:

Protocols:

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

- XUMF RDSN MENU Duplicate station number menu

List Templates:

- XUMF CHCK Required clean-up actions
- XUMF DSTA Delete local/dup. station #
- XUMF LLCL List local data
- XUMF NAME Names INSTITUTION vs. national
- XUMF NATL List national data to merge

Routines:

- XUMF4 Institution File Clean Up - MAIN
- XUMF4A Institution File Clean Up - AUTO
- XUMF4H Institution File Clean Up - HELP

Option:

- XUMF INSTITUTION Institution File Query / Update

Security Key:

- XUMF INSTITUTION Institution Master File Key (locks XUMF INSTITUTION option)

2.139.1.3 Master File Server mechanism

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

The administrator will receive update notifications such as new CBOC station numbers directly from the Information Management Service via the 045A4 distribution list.

The administrator will then add/edit the INSTITUTION (#4) file entry on FORUM. This will result in the building of an HL7 message containing the update, which will be sent to all VistA sites. The message will be processed automatically at the sites, updating the local INSTITUTION (#4) file with the new/updated entry.

The following components are provided for the Master File Server:

Protocols:

- XUMF MFK Master File App ACK
- XUMF MFN Master File Notification
- XUMF MFQ Master File Query

- XUMF MFR Master File Response

HL7 Application Parameters:

- XUMF MFK Master File App ACK
- XUMF MFN Master File Notification
- XUMF MFQ Master File Query
- XUMF MFR Master File Response

Routines:

- XUMFH Master File HL7 Msg Handler
- XUMFI Master File Interface
- XUMFP Master File C/S Parameters
- XUMFP4 Master File C/S Params INSTITUTION
- XUMFP4C Master File C/S Params INSTITUTION (cont)
- XUMFPFT Master File Param FACILITY TYPE

Logical Link:

- XUMF FORUM The HL7 LOGICAL LINK (#870) to the Master File Server

<p>Note: The link does not need to be started via Start logical Links option due to its being a real-time link.</p>
--

Mail Group:

- XUMF INSTITUTION Receives Institution update notifications (site) Add members to the group who are to be notified of any add/edits to national entries. This group is for Institution specific messages.
- XUMF SERVER Receives MFS related messages (server & site) Add members to the group who are to be notified of any general server related messages such as errors.

Bulletin:

- XUMF INSTITUTION Update notification message (site)
- XUMF ERROR Error message (server)

2.139.1.4 Data Dictionary modifications

INSTITUTION (#4) file

The STATUS (#11) field will have 'INACTIVE' removed from the set of codes. Inactive entries will now be flagged by the INACTIVE FACILITY FLAG (#101) field. The input transform has been modified to prevent setting of the STATUS (#11)

field to national. Only national entries may be flagged as NATIONAL and only by the IMF cleanup or server mechanism. A site can not create national entries or flag local entries as national.

The STATION NUMBER (#99) field will be modified to prevent any local updating. The STATION NUMBER (#99) field is reserved for national entries only. The STATION NUMBER (#99) field will be maintained by the Master File

Server mechanism.

The NAME (#.01) field will be modified to prevent the editing of this field for national entries.

The STATE (#.02) field will be modified to prevent the editing of this field for national entries.

The FACILITY TYPE (#13) field will be modified to prevent the editing of this field for national entries.

The OFFICAL VA NAME (#100) field will be increased from a maximum of 30 characters of free text to 80 characters. This is to allow for the longer new health care system names. This field will also be modified to prevent the editing of national entries.

The INACTIVE FACILITY FLAG (#101) field will have set of codes changed from 'Y' for 'YES' to '1' for 'INACTIVE'. This field will also be modified to prevent the editing of national entries.

A new HISTORY (#999.1) multiple field has been added with the following fields:

EFFECTIVE DATE (#.01) - The effective date of the historical event.

NAME (CHANGED FROM) (#.02) - If the NAME changed, this field holds the #.01 value prior to the edit on the effective date.

OFFICIAL VA NAME (CHANGED FROM) (#.03) - If the OFFICAL VA NAME changed, this field holds the #100 value prior to the edit on the effective date.

REALIGNED TO (#.05) - This field holds a pointer to the INSTITUTION (#4) file entry with the new STATION NUMBER (#99) for this facility.

REALIGNED FROM (#.06) - This field holds a pointer to the INSTITUTION (#4) file entry with the old STATION NUMBER (#99) for this facility.

DEACTIVATED FACILITY / STA # (#.07) - This field flags (1) a deactivated facility and/or station number for this effective date.

ACTIVATED FACILITY (#.08) - This field flags (1) a re-activated facility and/or station number for this effective date.

Four new write identifiers are added with the patch and replace the current field identifiers. The post-init routine XUMFPOST deletes the old field identifiers. The new write identifiers are state, facility type, station number, and inactive facility flag with effective date.

The post-init will also remove the following deprecated (starred) fields:

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

FACILITY TYPE (#4.1) file

A STATUS (#3) field is added. This field is a set of codes. 'N' flags 'National' and 'L' flags 'Local' entries.

2.139.1.5 Application Programmer Interface

\$\$IEN^XUAF4(STA) - returns the INSTITUTION (#4) file IEN for a given station number

\$\$STA^XUAF4(IEN) - returns the station number for a given INSTITUTION (#4) file IEN.

\$\$TF^XUAF4(IEN) - is this an active treating facility (1=YES,0=NO) for a given INSTITUTION (#4) file IEN?

\$\$RT^XUAF4(IEN) - returns the realigned to 'IEN^station number^date' for a given INSTITUTION (#4) file IEN

\$\$RF^XUAF4(IEN) - returns the realigned from 'IEN^station number^date' for a given INSTITUTION (#4) file IEN

\$\$O99^XUAF4(IEN) - if this entry was merged due to a duplicate station number, this function returns a pointer to new station number INSTITUTION (#4) file IEN

F4^XUAF4(STA,ARRAY,FLAG,DATE) - File #4 multipurpose API

Input

- STA Station number (required)
- [.]ARRAY Array to return values. (required)

- FLAG A = Active entries only. (optional)
- M = Medical treating facilities only.
- DATE Return name on this FM internal date. (optional);

Output

- ARRAY IEN or '0^error message'
- ARRAY("NAME") name
- ARRAY("VA NAME") official va name
- ARRAY("STATION NUMBER") station number
- ARRAY("TYPE") facility type name
- ARRAY("INACTIVE") inactive date (0=not inactive)
- note: if inactive date not available but entry inactive then 1
- ARRAY("REALIGNED TO") IEN^station number^date
- ARRAY("REALIGNED FROM") IEN^station number^date
- DBIA #2171 documents the Institution APIs

2.139.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;126;Jul 10, 1995
```

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine	Checksum Before	Checksum After	Patch List
XUAF4	1458355	3805595	**43,112,126**
XUMF4	new	7702646	**126**
XUMF4A	new	5891234	**126**
XUMF4H	new	3756605	**126**
XUMFENV	new	608569	**126**
XUMFH	new	5277084	**126**
XUMFI	new	8135336	**126**
XUMFP	new	1454622	**126**
XUMFP4	new	8721287	**126**
XUMFP4C	new	4836667	**126**
XUMFPFT	new	5599821	**126**
XUMFPOST	new	1399192	**126**

list of preceding patches: 43, 112.

Routine Information

Routine Name: XUAF4
Routine Checksum:

Routine Name: XUMF4
Routine Checksum:

Routine Name: XUMF4A
Routine Checksum:

Routine Name: XUMF4H
Routine Checksum:

Routine Name: XUMFH
Routine Checksum:

Routine Name: XUMFI
Routine Checksum:

Routine Name: XUMFP
Routine Checksum:

Routine Name: XUMFP4
Routine Checksum:

Routine Name: XUMFP4C
Routine Checksum:

Routine Name: XUMFPFT
Routine Checksum:

Routine Name: XUMFPOST
Routine Checksum:

Routine Name: XUMFENV
Routine Checksum:

2.139.3 Installation Instructions

The patch can be installed at anytime. Install time should not take more than two minutes. The actual clean up, using the List Manager utilities, will take additional time. Since the INSTITUTION (#4) file is a standard file referenced by many packages, it is recommended to perform the clean up with as few users on the system as possible; this includes the auto update and delete duplicate station number actions. The lists can be run at any time. Resolving any duplicate entries is interactive and will vary site to site. The auto update action should take five to ten minutes.

Note: The clean up code queries the Master File Server on FORUM to get a copy of the Institution Master File. The HL7 package checks whether a message is intended for production or training. The FORUM server's HL7 site parameter is 'production', so attempting to install this patch in a test account with the site parameter set to 'training' will result in a response message containing an 'Application Reject' due to 'Processing ID Mismatch with Site Parameters'.

Before installing the patch, make a copy of the INSTITUTION (#4) file.

Use ^%GTO (DSM) (for Cache use %GO) to save a copy of the INSTITUTION (#4) file for backup purposes. Following is an example:

```
VAH>D ^%GTO
This routine saves globals to be restored by %GTI
Output Device ? > DIC4.GBL
Header comment... INSTITUTION (#4) file backup
global(s) ? > ^DIC(4)
global(s) ? > ^DIC(4.1)
global(s) ? > ^
Global(s) Selected:
  ^DIC(4)
Output started for ^DIC at 8:19:50 AM

Global transfer finished at 8:19:51 AM

VAH>
```

In the event of some unforeseen disaster the site decides they need to back out of the clean up, the site may 'KILL ^DIC(4),^DIC(4.1' and DO ^%GTI (DSM) (for Cache use DO ^%GI) to restore the backup copy. This will restore the data to its original state.

1. Users ARE allowed to be on the system during the installation.
2. DSM/AXP sites: These routines are not usually mapped, so you will probably not have to disable mapping.
3. You DO NOT need to stop TaskMan or the background filers.
4. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System

- Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*126
 - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
 7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.
 8. Delete the post-init routine XUMFPOST and the environment check routine XUMFENV. DO NOT delete any other XUMF* routines!
 9. Add members to the XUMF INSTITUTION mail group who should be notified of any new station numbers added to the INSTITUTION (#4) file (IRM, PIMS ADPACs, etc).
 10. Add members to the XUMF SERVER mail group who should be notified of any server bulletins. These bulletins may include error messages related to the server mechanism and may require intervention by IRM.

2.139.4 Post Install Instructions

1. Add the option Institution File Query / Update [XUMF INSTITUTION] to the Kernel Management Menu [XUKERNEL]. Optional.
2. Select the Institution File Query / Update option in the Kernel Management Menu. Several short messages will be displayed on your screen, and then the terminal will hang 5-10 minutes while the option gets a copy of the Institution Master File from FORUM. When the query response message arrives the main List Manager display will appear on your screen (see the beginning of this patch description for more details).
3. Run the 'List local station numbers' list (LLCL) to get a list of the local station numbers that will be deleted from the STATION NUMBER (#99) field. Use the List Manager common Action 'PL' to get a printed copy of the list.
4. Run (optionally) the 'List national data to merge' (NATL) to get a list of data to be merged to the INSTITUTION (#4) file.

5. Run the 'Delete local/dup. station #' action (DSTA). If any duplicates remain (not auto-resolved by 'Delete local/dup. station #') use the list and associated action 'Resolve duplicate station numbers' to fix remaining duplicates manually. See the description of 'Delete local/dup. station #' for more information.
6. Run the 'Auto update with national data' action (AUTO).
7. Run the 'Required clean-up actions' action (CHCK). If actions are displayed, run the appropriate actions and repeat step 6. If not, congratulations! You're done.

2.139.5 Other

Additional documentation

Product documentation may be found on the web at the following URL:

<<http://vista.med.va.gov/ifr/index.html>>

Required package

VistA HL7 version 1.6 is required by this patch. Contact NVS

Infrastructure Team (G.CSINFRAST@FORUM.VA.GOV) if you need a complete build of the HL7 package.

2.140 XU*8*206 SEQ #169: Institution File Redesign (IFR)

Associated patches:

(v)DVBA*2.7*32	install with patch `XU*8*206'
(v)RMPF*2*16	install with patch `XU*8*206'
(v)DG*5.3*357	install with patch `XU*8*206'
(v)MPIF*1*16	install with patch `XU*8*206'
(v)XU*8*43	must be installed BEFORE `XU*8*206'
(v)XU*8*112	must be installed BEFORE `XU*8*206'

Category: Routine, Data Dictionary, Other

2.140.1 Description

The purpose of this patch is to provide the sites with utilities that facilitate the clean up of the INSTITUTION (#4) file, to populate the local INSTITUTION (#4) file with a complete list of national facilities with station number, to implement a Master File Server mechanism that maintains national Institution entries automatically, to modify the INSTITUTION (#4) file Data Dictionary preventing local editing of national data and adding historical time sensitive data fields, and to provide Application Programmer Interface to return Institution and Institution time sensitive information.

2.140.2 The clean up and the national file - Institution Master File

The clean up utilities will 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 be included to resolve duplicate station numbers and to automatically populate the local INSTITUTION (#4) file with national IMF data.

The INSTITUTION (#4) file clean up utilities utilize the query functionality provided by the Master File Server mechanism implemented with this patch. The data is returned to the local site that stores the IMF data in a temporary global. The clean up utilities use this information for comparing and displaying the data, as well as automatically updating the local INSTITUTION (#4) file.

The Institution Master File (IMF) is made up of information collected from the VISNs by the Office of Policy and Planning, the official spreadsheet of station numbers distributed by Central Office, and information provided by the Austin Automation Center and the National DataBase Integration (NDBI) team.

The clean up utilities are presented to the user via a List Manager interface. The main List Manager screen displays INSTITUTION (#4) file vs. IMF file data. There are several actions associated with this main screen. They are 'Delete local/dup. station #', 'List local station numbers', 'List national data to merge', 'Auto update with national data', and 'Required clean-up actions'.

Main Screen: Name list. INSTITUTION (#4) file vs. IMF

This main screen displays a side-by-side view of the current INSTITUTION (#4) file and its corresponding IMF entry sorted by station number. Note some lines may not have both an INSTITUTION (#4) name and IMF name. The reasons why there may not be an entry in both columns are: station numbers in the INSTITUTION (#4) file not in the IMF or IMF entries missing from the INSTITUTION (#4) file (see 'List local station numbers' and 'List national data to merge'). Since the purpose of this list is to compare the local file vs. the IMF (sorted by station number), if duplicate station numbers in the local file exist they are not displayed twice. The 'Delete local/dup. station #' action is used to fix/view these duplicates.

2.140.3 Actions of the Main List Manager Screen

List local station numbers

This action checks for and displays any station numbers that are found in the INSTITUTION (#4) file but are not included in the IMF. These local station numbers are automatically deleted by the 'Delete local/dup. station #' associated action. You may run this list prior to 'Delete local/dup. station #' to view local station numbers that will be deleted.

Note: The 'Delete local/dup. station #' action will remove these local station numbers.

A new cross-reference ^DIC(4,"AOLD99",IEN,station_number) will exist for deleted STATION NUMBER (#99).

Delete local/dup. station

This action will first remove any local STATION NUMBER (#99) from the INSTITUTION (#4) file. It then checks for any duplicate station numbers. For each set of duplicates, the action checks if one entry in the set is pointed to by the LOGICAL LINK (#870) file; if so, that entry is kept and the value of the STATION NUMBER (#99) field of the other duplicate entries are deleted. If any set of duplicates remain (the set having no pointer from file #870), the action then displays them. The display lists line number, station number, institution name, and the internal entry number of the INSTITUTION (#4) file entry. An action is associated with this list to automatically delete the duplicate station number by selecting the line number of the entry to be affected; this deletion is of the STATION NUMBER (#99) field and not the INSTITUTION (#4) file entry itself.

Since the INSTITUTION (#4) file is referenced by numerous packages, there is probably no one correct entry to select for station number deletion -- for those entries where the NAME (#.01) does not clearly indicate the correct choice. The important thing is to resolve the duplicate. If a problem in a specific package should arise, that issue may have to be dealt with on a case-by-case basis. The patch does implement an API, \$O99^XUAF4(IEN), and cross-reference, "O99", that may be used to resolve (re-point) any package specific issues. See below for more information about the API and cross-reference. All duplicate stations numbers must be resolved before the 'Auto update with national data' action will allow the site to auto update their INSTITUTION (#4) file with the IMF data.

Any STATION NUMBER (#99) that is automatically deleted will be displayed in the Action Area of the List Manager screen to denote processing. To get a proper list of local station numbers to be deleted, use the action 'List local station numbers' PRIOR to running this action! The duplicate station numbers that are auto-resolved in favor of the file #870 pointer are only displayed in the Action Area following the listing of deleted local station numbers (with associated DIR End-Of-Page prompt). This is the only place these type of duplicates are listed, although, all deleted STATION NUMBER (#99) field values are stored in a new cross-reference.

A new cross-reference ^DIC(4,"AOLD99",IEN,station_number) will exist for any deleted STATION NUMBER (#99).

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

Also note: other applications including AMIE, Record Tracking, and CIRM MPI/PD may be negatively affected if their pointers to an INSTITUTION (#4) file entry don't have a valid STATION NUMBER (#99).

List national data to merge

This action checks for and displays any station numbers that are in the IMF but not found in the INSTITUTION (#4) file. This list is informational only and has no actions associated with it. Sites may wish to print this list before running 'Auto update with national data' to see which entries will be added to the INSTITUTION (#4) file.

Auto update with national data

This action will automatically update the INSTITUTION (#4) file with IMF data. This action will first check for duplicate station numbers. If any duplicates are found the action will notify the user and suspend the update until the duplicates are resolved (see 'Delete local/dup. station #'). If no duplicate station numbers are found the update begins. First it will clean out any data stored in the *STATION NAME (#7) field and then remove any local station numbers stored in STATION NUMBER (#99) field; only nationally approved station numbers are allowed. Any entry with a STATUS (#11) of INACTIVE will have the INACTIVE FACILITY FLAG (#101) set and the STATUS (#11) field value deleted. Next it will merge the IMF data with the site's INSTITUTION (#4) file; this includes setting the STATUS (#11) flag to national, and populating the fields NAME (#.01), STATION NUMBER (#99), OFFICIAL VA NAME (#100), FACILITY TYPE (#13), and STATE (#2). Inactive facilities and deactivated station numbers will have the INACTIVE FACILITY FLAG (#101) set. Integrated/realigned facilities will have a pointer to/from the new/old INSTITUTION (#4) file entry together with the effective date; these values will be stored in the HISTORY (#4.999) sub-file fields EFFECTIVE DATE (#.01), REALIGNED TO (#.05), and REALIGNED FROM (#.06).

The auto update action will take approximately 5-10 minutes and the terminal will hang until complete. This should complete the clean up, but run the action 'Required clean-up actions' to verify there are no further duplicates and that all IMF data merged

correctly.

2.140.4 Required clean-up actions

This action may be run at any time to determine which steps are required to successfully complete the INSTITUTION (#4) file clean up. It first checks for duplicate station numbers and any missing IMF data. If any discrepancies are found, they are displayed with the appropriate resolving action. If no discrepancies are found, the user will be notified the update is complete. The following new components are provided for the clean up:

Protocols:

- XUMF AUTO Auto-update with national data
- XUMF CHCK Required clean-up actions
- XUMF DSTA Delete local/dup. station #
- XUMF LLCL List local data
- XUMF NAME Names INSTITUTION vs. national
- XUMF NATL List national data to merge
- XUMF RDSN Resolve duplicate station numbers
- XUMF RDSN MENU Duplicate station number menu

List Templates:

- XUMF CHCK Required clean-up actions
- XUMF DSTA Delete local/dup. station #
- XUMF LLCL List local data
- XUMF NAME Names INSTITUTION vs. national
- XUMF NATL List national data to merge

Routines:

- XUMF4 Institution File Clean Up - MAIN
- XUMF4A Institution File Clean Up - AUTO
- XUMF4H Institution File Clean Up - HELP

Option:

- XUMF INSTITUTION Institution File Query / Update

Security Key:

- XUMF INSTITUTION Institution Master File Key (locks XUMF INSTITUTION option)

2.140.5 Master File Server mechanism

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

The administrator will receive update notifications such as new CBOC station numbers directly from the Information Management Service via the 045A4 distribution list.

The administrator will then add/edit the INSTITUTION (#4) file entry on FORUM. This will result in the building of an HL7 message containing the update, which will be sent to all VistA sites. The message will be processed automatically at the sites, updating the local INSTITUTION (#4) file with the new/updated entry.

The following components are provided for the Master File Server:

Protocols:

- XUMF MFK Master File App ACK
- XUMF MFN Master File Notification
- XUMF MFQ Master File Query
- XUMF MFR Master File Response
- HL7 Application Parameters:
- XUMF MFK Master File App ACK
- XUMF MFN Master File Notification
- XUMF MFQ Master File Query
- XUMF MFR Master File Response

Routines:

- XUMFH Master File HL7 Msg Handler
- XUMFI Master File Interface
- XUMFP Master File C/S Parameters
- XUMFP4 Master File C/S Params INSTITUTION
- XUMFP4C Master File C/S Params INSTITUTION (cont)
- XUMFPFT Master File Param FACILITY TYPE

Logical Link:

- XUMF FORUM The HL7 LOGICAL LINK (#870) to the Master File Server

Note: The link does not need to be started via Start logical Links option due to its being a real-time link.

Mail Group:

- XUMF INSTITUTION Receives Institution update notifications (site) Add members to the group who are to be notified of any add/edits to national entries. This group is for Institution specific messages.
- XUMF Server Receives MFS related messages (server & site) Add members to the group who are to be notified of any general server related messages such as errors.

Bulletin:

- XUMF INSTITUTION Update notification message (site)
- XUMF ERROR Error message (server)

2.140.6 Data Dictionary Modifications

Institution (#4) file

The STATUS (#11) field will have 'INACTIVE' removed from the set of codes. Inactive entries will now be flagged by the INACTIVE FACILITY FLAG (#101) field. The input transform has been modified to prevent setting of the STATUS (#11) field to national. Only national entries may be flagged as NATIONAL and only by the IMF cleanup or server mechanism. A site cannot create national entries or flag local entries as national. The STATION NUMBER (#99) field will be modified to prevent any local updating. The STATION NUMBER (#99) field is reserved for national entries only. The STATION NUMBER (#99) field will be maintained by the Master File Server mechanism.

The NAME (#.01) field will be modified to prevent the editing of this field for national entries.

The STATE (#.02) field will be modified to prevent the editing of this field for national entries.

The FACILITY TYPE (#13) field will be modified to prevent the editing of this field for national entries.

The OFFICAL VA NAME (#100) field will be increased from a maximum of 30 characters of free text to 80 characters. This is to allow for the longer new health care system names. This field will also be modified to prevent the editing of national entries.

The INACTIVE FACILITY FLAG (#101) field will have set of codes changed from 'Y' for 'YES' to 'I' for 'INACTIVE'. This field will also be modified to prevent the editing of national entries.

A new HISTORY (#999.1) multiple field has been added with the following fields:

EFFECTIVE DATE (#.01) - The effective date of the historical event.

NAME (CHANGED FROM) (#.02) - If the NAME changed, this field holds the #.01 value prior to the edit on the effective date.

OFFICIAL VA NAME (CHANGED FROM) (#.03) - If the OFFICAL VA NAME changed, this field holds the #100 value prior to the edit on the effective date.

REALIGNED TO (#.05) - This field holds a pointer to the INSTITUTION (#4) file entry with the new STATION NUMBER (#99) for this facility.

REALIGNED FROM (#.06) - This field holds a pointer to the INSTITUTION (#4) file entry with the old STATION NUMBER (#99) for this facility.

DEACTIVATED FACILITY / STA # (#.07) - This field flags (1) a deactivated facility and/or station number for this effective date.

ACTIVATED FACILITY (#.08) - This field flags (1) a re-activated facility and/or station number for this effective date.

Four new write identifiers are added with the patch and replace the current field identifiers. The post-init routine XUMFPOST deletes the old field identifiers. The new write identifiers are state, facility type, station number, and inactive facility flag with effective date.

The post-init will also remove the following deprecated (starred) fields:

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

FACILITY TYPE (#4.1) file

A STATUS (#3) field is added. This field is a set of codes. 'N' flags 'National' and 'L' flags 'Local' entries.

2.140.7 Application Programmer Interface

\$IEN^XUAF4(STA) - returns the INSTITUTION (#4) file IEN for a given station

number \$\$STA^XUAF4(IEN) - returns the station number for a given INSTITUTION (#4) file IEN.

\$\$TF^XUAF4(IEN) - is this an active treating facility (1=YES,0=NO) for a given INSTITUTION (#4) file IEN?

\$\$RT^XUAF4(IEN) - returns the realigned to 'IEN^station number^date' for a given INSTITUTION (#4) file IEN

\$\$RF^XUAF4(IEN) - returns the realigned from 'IEN^station number^date' for a given INSTITUTION (#4) file IEN

\$\$O99^XUAF4(IEN) - if this entry was merged due to a duplicate station number, this function returns a pointer to new station number INSTITUTION (#4) file IEN

F4^XUAF4(STA,ARRAY,FLAG,DATE) - File #4 multipurpose API

INPUT

- STA Station number (required)
- [.]ARRAY Array to return values. (required)
- FLAG A = Active entries only. (optional)
- M = Medical treating facilities only.
- DATE Return name on this FM internal date. (optional);

OUTPUT

- ARRAY IEN or '0^error message'
- ARRAY("NAME") name
- ARRAY("VA NAME") official va name
- ARRAY("STATION NUMBER") station number
- ARRAY("TYPE") facility type name
- ARRAY("INACTIVE") inactive date (0=not inactive)

Note: if inactive date not available but entry inactive then 1

- ARRAY("REALIGNED TO") IEN^station number^date
- ARRAY("REALIGNED FROM") IEN^station number^date
- DBIA #2171 documents the Institution APIs.

2.140.8 Routines

The following routines are included in this patch. The second line of each of these

routines now looks like:

;;8.0;KERNEL;206;Jul 10, 1995

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine	Checksum Before	Checksum After	Patch List
XUAF4	1458355	3805595	**43,112,206**
XUMF4	new	7946722	**206**
XUMF4A	new	5978851	**206**
XUMF4H	new	3756605	**206**
XUMFENV	new	608569	**206**
XUMFH	new	5277020	**206**
XUMFI	new	8135336	**206**
XUMFP	new	1454622	**206**
XUMFP4	new	8721287	**206**
XUMFH	new	5277020	**206**
XUMFI	new	8135336	**206**
XUMFP	new	1454622	**206**
XUMFP4	new	8721287	**206**
XUMFP4C	new	4836667	**206**
XUMFPFT	new	5599821	**206**
XUMFPOST	new	1399192	**206**

List of preceding patches: 43, 112.

Routine Information

Routine Name: XUAF4

Routine Checksum:

Routine Name: XUMF4

Routine Checksum:

Routine Name: XUMF4A

Routine Checksum:

Routine Name: XUMF4H

Routine Checksum:

Routine Name: XUMFH

Routine Checksum:

Routine Name: XUMFI

Routine Checksum:

Routine Name: XUMFP

Routine Checksum:

Routine Name: XUMFP4
Routine Checksum:

Routine Name: XUMFP4C
Routine Checksum:

Routine Name: XUMFPFT
Routine Checksum:

Routine Name: XUMFPOST
Routine Checksum:

Routine Name: XUMFENV
Routine Checksum:

2.140.9 Installation Instructions

The patch can be installed at anytime. Install time should not take more than two minutes. The actual clean up, using the List Manager utilities, will take additional time. Since the INSTITUTION (#4) file is a standard file referenced by many packages, it is recommended to perform the clean up with as few users on the system as possible; this includes the auto update and delete duplicate station number actions. The lists can be run at any time. Resolving any duplicate entries is interactive and will vary site to site. The auto update action should take five to ten minutes.

Note: The clean up code queries the Master File Server on FORUM to get a copy of the Institution Master File. The HL7 package checks whether a message is intended for production or training. The FORUM server's HL7 site parameter is 'production', so attempting to install this patch in a test account with the site parameter set to 'training' will result in a response message containing an 'Application Reject' due to 'Processing ID Mismatch with Site Parameters'.

Before installing the patch, make a copy of the INSTITUTION (#4) file.

Use ^%GTO (DSM) (for Cache use %GO) to save a copy of the INSTITUTION (#4) file for backup purposes. Following is an example:

```
VAH>D ^%GTO
This routine saves globals to be restored by %GTI
Output Device ? > DIC4.GBL
Header comment... INSTITUTION (#4) file backup
global(s) ? > ^DIC(4
global(s) ? > ^DIC(4.1
global(s) ? > ^
```

```

Global(s) Selected:
  ^DIC(4)

Output started for ^DIC at 8:19:50 AM

Global transfer finished at 8:19:51 AM

VAH>

```

In the event of some unforeseen disaster the site decides they need to back out of the clean up, the site may 'KILL ^DIC(4),^DIC(4.1' and DO ^%GTI (DSM) (for Cache use DO ^%GI) to restore the backup copy. This will restore the data to its original state.

1. Users ARE allowed to be on the system during the installation.
2. DSM/AXP sites: These routines are not usually mapped, so you will probably not have to disable mapping.
3. You DO NOT need to stop TaskMan or the background filers.
4. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*206
 - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.
8. Delete the post-init routine XUMFPOST and the environment check routine XUMFENV. DO NOT delete any other XUMF* routines!

9. Add members to the XUMF INSTITUTION mail group who should be notified of any new station numbers added to the INSTITUTION (#4) file (IRM, PIMS ADPACs, etc).
10. Add members to the XUMF SERVER mail group who should be notified of any server bulletins. These bulletins may include error messages related to the server mechanism and may require intervention by IRM.

2.140.10 Post Install Instructions

1. Add the option Institution File Query / Update [XUMF INSTITUTION] to the Kernel Management Menu [XUKERNEL]. Optional.
2. Select the Institution File Query / Update option in the Kernel Management Menu. Several short messages will be displayed on your screen, and then the terminal will hang 5-10 minutes while the option gets a copy of the Institution Master File from FORUM. When the query response message arrives the main List Manager display will appear on your screen (see the beginning of this patch description for more details).
3. Run the 'List local station numbers' list (LLCL) to get a list of the local station numbers that will be deleted from the STATION NUMBER (#99) field. Use the List Manager common Action 'PL' to get a printed copy of the list.
4. Run (optionally) the 'List national data to merge' (NATL) to get a list of data to be merged to the INSTITUTION (#4) file.
5. Run the 'Delete local/dup. station #' action (DSTA). If any duplicates remain (not auto-resolved by 'Delete local/dup. station #') use the list and associated action 'Resolve duplicate station numbers' to fix remaining duplicates manually. See the description of 'Delete local/dup. station #' for more information.
6. Run the 'Auto update with national data' action (AUTO).
7. Run the 'Required clean-up actions' action (CHCK). If actions are displayed, run the appropriate actions and repeat step 6. If not, congratulations! You're done.

2.140.11 Other

Additional documentation

Product documentation may be found on the web at the following URL:

<<http://vista.med.va.gov/ifr/index.html>>

Required package

VistA HL7 version 1.6 is required by this patch. Contact NVS

Infrastructure Team (G.CSINFRAST@FORUM.VA.GOV) if you need a complete build of the HL7 package.

2.141 XU*8*196 SEQ #170: RDV Passing Proper User Data

Associated patches: (v)XU*8*183 - <<= must be installed BEFORE `XU*8*196`

Category: Routine

2.141.1 Description

NOIS CPH-0301-43012 CPH-0301-43024

Site was getting a null subscript error when a requesting site that did not have a station number in the institution file (#4) made a RDV request to the site. This was fixed by checking for the station number when the request is made to prevent sending a invalid request. At the remote site a second set of check are made to see that all the needed parameters are in place before starting to log the visit.

2.141.2 Routines

Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old	New	2nd Line
XUESSO1	4127624	4782174	**165,183,196**

List of preceding patches: 183

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUESSO1

Routine Checksum:

2.141.3 Installation

Note: Users may remain on the system. Do not allow users to make RDV requests during the install.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. Users can remain on the system. This patch can be loaded any non-peak time.
6. This patch can be queued for install at non-peak hours. TaskMan can remain running.
7. Do not allow users to make RDV requests during the install.
8. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*196'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
9. DSM Sites, after patch has installed, rebuild your map set.

2.142 XU*8*169 SEQ #171: NOIS Fixes

Associated patches:

(v)XU*8*118	install with patch `XU*8*169'
(v)XU*8*120	install with patch `XU*8*169'
(v)XU*8*136	install with patch `XU*8*169'
(v)XU*8*148	install with patch `XU*8*169'

Category: Routine, Print Template

2.142.1 Description

ALX-0500-70393 XUTMRP, XUTMRP1

When the DEVICE name and \$I were changed with tasks still queued to the old DEVICE name, (XUTM REPNT) option could not find the old device name and would cause an <UNDEFINED> error in XUTMRP1. Now, even if the DEVICE name was removed or changed, the option will still work.

E3R 14749

The "Person Class" and "Has E-SIG" and "Write Med's" were added to the print template [XUSERINQ] for this option "XUSERINQ". The KEYS HELD list was changed to add more space and see that entries don't run off the side of the page. Added some CPRS parameter info .Added a list of the MailMan info (Last use, mail groups). Compiled print template XUCT01 will be rebuilt. The Person Class was also added to routine XQUSR. Added a question to the Terminate User option to show the User Inquiry. (XUSTERM)

MON-0800-50494, DUB-0900-31169, CML-0500-40711 XUTMQ

The future task list was not showing up. Corrected the global reference that it was using.

XUTMK

From a question from NVS, Fixed a problem that caused this routine not to clean-up TaskMan monitor data in the %ZTSCH global.

2.142.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: ;:8.0;KERNEL;<patchlist>;Jul 10, 1995

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XQUSR	5053391	4960998	**169**
XUSER1	n/a	1428663	**169**
XUSTERM	13933270	14433091	**36,73,135,148,169**
XUTMK	7364498	8630418	**49,67,118,169**
XUTMQ	8186969	8210432	**20,136,169**
XUTMRP	15577050	13191393	**2,20,86,120,169**
XUTMRP1	7184681	5994786	**2,86,120,169**
XUTMTP	10473436	10842367	**20,86,169**

List of preceding patches: 118, 120, 136, 148

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XQUSR
Routine Checksum:

Routine Name: XUTMK
Routine Checksum:

Routine Name: XUTMQ
Routine Checksum:

Routine Name: XUTMRP
Routine Checksum:

Routine Name: XUTMRP1
Routine Checksum:

Routine Name: XUTMTP
Routine Checksum:

Routine Name: XUSTERM
Routine Checksum:

Routine Name: XUSER1
Routine Checksum:

2.142.3 Installation

Note: Users may remain on the system.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.

This patch can be queued and installed at any time.

TaskMan and Background tasks can remain running.

5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*169'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.143 XU*8*192 SEQ #172: Correction to REQ ZTLOAD3

Associated patches: (v)XU*8*136 must be installed BEFORE `XU*8*192'

Category: Routine

2.143.1 Description

NOIS: ISB-0201-31135

In the code for REQ^%ZTLOAD the new schedule time is put in the wrong piece of the TASK. The code which puts the time in the task record was not found at REQ^%ZTLOAD. The code at REQ^%ZTLOAD transfers control to %ZTLOAD3 which then contains the code being fixed. The 5th piece of ^%ZTSK(ztsk,0) was set when piece 6 should have been set. Also the original create \$H is moved to a new field (#16) and the \$H at the time of requeueing is set into the 5th piece. This patch fixes this problem.

2.143.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: ;;8.0;KERNEL;<patchlist>;JUL 10, 1995

Checksum

Routine	Old Checksum	New Checksum	2nd Line
ZTLOAD3	4046069	4541001	**67,127,136,192**

List of preceding patches: 136

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZTLOAD3

Routine Checksum:

2.143.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time.
 - This patch cannot be queued.
 - **There is a slight chance that a job (User or TaskMan) could access this routine and get some CLOBBER/NOSOURCE errors.
 - If this isn't acceptable then see that all jobs on the system are stopped before installing this patch.
5. In Programmer mode:
 - Use "D ^XPDKRN" then
 - Install Package(s) 'XU*8.0*192'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move the following routine from your production account to each manager account: ZTLOAD3
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:

- DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 192
8. DSM Sites, after patch has installed, rebuild your map set.

2.144 XU*8*197 SEQ #173: Update SAGG Collection Routines

Associated patches: (v)KMPS*1.8*1 must be installed BEFORE `XU*8*197'

Category: Routine

2.144.1 Description

This patch must be installed at both DSM and Open M-NT (Cache) sites.

Items addressed by this patch for DSM sites:

- Re-enable collection of hardware information

Items addressed by this patch for OpenM-NT (Cache) sites:

- Allow collection of global information at sites running Cache 3.2 (and higher)
- This patch is being released by Capacity Management (CM) for installation of modifications to the %ZOSVK* collection routines that are used by the Statistical Analysis of Global Growth (SAGG) Version 1.8 software package.
- All DSM and OpenM-NT (Cache) sites are instructed to install this patch.
- This patch makes modifications to the %ZOSVK* collection routines that are used by the SAGG software package.
- This patch removes the MSM versions of the collection routines (ZOSVKSME and ZOSVKSMS) from the production environment.
- Provided that the 'SAGG Master Background Task' [KMPS SAGG REPORT] is not currently running, this installation can be performed at any time of the day with minimal disruption to users. Installation should not take longer than 10-15 minutes.

2.144.2 Routines

Routine	Old Checksum	New Checksum	2nd Line
ZOSVKSD	1846282	2225899	**121,197**
ZOSVKSOE	6067956	5411841	**90,94,197**
ZOSVKSOS	14826279	6783109	**90,94,197**
ZOSVKSVE	9688078	5367629	**90,94,197**
ZOSVKSVS	4925185	3596789	**90,94,197**

Checksums calculated by CHECK^XTSUMBLD

Routine Information

Routine Name: ZOSVKSD

Routine Checksum:

Routine Name: ZOSVKSOE

Routine Checksum:

Routine Name: ZOSVKSOS

Routine Checksum:

Routine Name: ZOSVKSVE

Routine Checksum:

Routine Name: ZOSVKSVS

Routine Checksum:

2.144.3 Installation

1. You will need to disable mapping of any routines within the %ZOSVK* namespace.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. You do not need to inhibit users from login into the system.
5. Ensure that the 'SAGG Master Background Task' [KMPS SAGG REPORT] is not currently running by using the 'Status of SAGG Collection Routines' [KMPS SAGG STATUS] option and verifying the following message is displayed:

```
The temporary collection global (i.e., ^XTMP("KMPS")) has no data.
```

6. On the KIDS menu, under the 'Installation' menu, use the 'Install Package(s)' option and select the package
 - XU*8.0*197

7. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//", you can respond with NO.
8. OpenM-NT (Cache) sites - you do not need to move any routines, skip this step.

DSM sites - you need to move several routines from your production account to manager account.

ZOSVKSD
 ZOSVKSOE
 ZOSVKSOS
 ZOSVKSVE
 ZOSVKSVS

9. OpenM-NT (Cache) sites remain in VAH.

DSM sites remain in the manager account.

10. All sites:

- DO RELOAD^ZTMGRSET
- Select the System
- Patch number to load: 197

11. After patch has installed, rebuild your map set if necessary.

2.145 XU*8*201 SEQ #174: Parameter File KIDS Update

Associated patches: (v)XU*8*182 must be installed BEFORE `XU*8*201'

Category: - Routine, Input Template, Enhancement (Mandatory), Data Dictionary

2.145.1 Description

This patch creates two new components that add the following functionality to KIDS:

1. A KIDS Build component that allows users to export entries from the PARAMETER DEFINITION File (#8989.51).
 - a. Export the Parameter Definition for each entry.
 - b. Export the entries in the PARAMETERS file (#8989.5) that pointed to the exported Parameter Definition (Step A) and had as the entity the package to which the KIDS build belongs. The package-level parameters contained in the PARAMETERS file (#8989.5) are used as default values in cases where the site hasn't set up or modified the parameter.
 - c. Export the entries in PARAMETER ENTITY (#8989.518) file.
 - d. Synchronize/resolve any issues with "pointed to" files and entries.

- e. The incoming data replaces any data at the site.
2. A KIDS Build component that allows users to export entries from the PARAMETER TEMPLATE File (#8989.52).
 - a. Export the Parameter Template for each entry.
 - b. Export each Parameter Definition (#8989.51) that is pointed to, without the PARAMETERS file (#8989.5) entry.

2.145.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: ;;8.0;KERNEL;<patchlist>;Jul 10, 1995

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XPDE	15289814	15641945	**2,15,21,44,51,68,131,182,201**
XPDIA3	n/a	3070143	**201**
XPDTA2	n/a	2361795	**201**

List of preceding patches: 182

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XPDE

Routine Checksum:

Routine Name: XPDIA3

Routine Checksum:

Routine Name: XPDTA2

Routine Checksum:

2.145.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can be queued and installed at any time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*201'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.146 XU*8*213 SEQ #175: XUSRB for ESSO Related Uses

Category: Routine

2.146.1 Description

This patch adds some capabilities within the routine XUSRB related to Enterprise Single Sign-on (ESSO).

One change will enable the RPCBroker to determine proxy servers which can be used for an ESSO sign-on. Another change is specific to the CAPRI program of VBA to permit an ESSO-like sign-on using methods used in remote data views.

The patch contains only a single routine.

2.146.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: `;;8.0;KERNEL;<patchlist>;Jul 10, 1995`

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XUSRB	6227685	8143764	**11,16,28,32,59,70,82,109,115,165,150,180,213

List of preceding patches: 36, 102, 149, 150, 180

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUSRB

Routine Checksum:

2.146.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of the routine is usually mapped, so you will need to disable mapping for the routine.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system if installed at non-peak hours. There is a small chance that a user could get a CLOBBER error if they are signing on at the time the routines change. This patch can be queued and installed at non-peak time. TaskMan can remain running.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*213'
 - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

2.147 XU*8*214 SEQ #176: Restrict User to Patients Associated with OE/RR List

Associated patches:

(v)XU*8*134	must be installed BEFORE `XU*8*214'
(v)XU*8*150	must be installed BEFORE `XU*8*214'
(v)XU*8*169	must be installed BEFORE `XU*8*214'

Category: Routine, Data Dictionary, Print Template, Input Template

2.147.1 Description

This patch was created to support the BVA (Board of Veterans Appeals) project to allow CPRS to restrict the access of users in the New Person file (#200) to those patients associated with a specific OE/RR LIST.

Changes to New Person file (#200)

This patch adds two new fields to the New Person file:

- 200,101.01 Restrict Patient Selection 101;1 SET
 - '0' for No;
 - '1' for Yes;
 - Description: Answer 'YES' to restrict this user to selecting only those patients associated with the list pointed to by the Patient Selection List field (#101.02).
- 200,101.02 Patient Selection List 101;2 Pointer to File #100.21
 - Description: If a value is entered into this field, the user is allowed to select only those patients associated with this OE/RR LIST.
 - Option: Add a New User [XUSERNEW]
 - Form: XUEXISTING USER

Input Template: XUNEW USER

The change to this option adds the two new fields to the form and the input template used when a new entry is added to the New Person file. Also, the Termination Date and DISUSER fields are moved to the first page of the form to make them easier to see.

Option: Edit an Existing User [XUSEREDIT]

Form: XUEXISTING USER

Input Template: XUEXISTING USER

The change to this option adds the two new fields to the form and the input template

used when a New Person file entry is edited. Also, the Termination Date and DISUSER fields are moved to the first page of the form to make them easier to see.

Option: User Inquiry [XUSERINQ]

Print Template: XUSERINQ

The change to this option causes the two new fields to be displayed in the report.

Option: Grant Access by Profile [XUSERBLK]

Routine: XUSERBLK

The change to this option, which calls routine XUSERBLK, causes the contents of the Restrict Patient Selection field (#101.01) and Patient Selection List (#101.02) to be included in the copying process.

Blood Bank Team Coordination

Clearance - Oct 29, 2001

2.147.2 Routines

The following routines are included in this patch. The second line of the routines now looks like: <tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995

CHECK^XTSUMBLD results:

Routine	Old Checksum	New Checksum	2nd Line
XUSERBLK	10269237	10276297	20,214

Routine Information

Routine Name: XUSERBLK

Routine Checksum:

2.147.3 Installation Instructions

This patch can be installed with VISTA users online. However, it is recommended that it be installed or queued for install during non-peak times.

TaskMan does not need to be STOPPED or placed in a WAIT state.

1. AXP/DSM sites: Review your mapped routine set. If any of the routine(s) listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set at this time.

2. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This option loads the patch into a Transport Global on your system.
3. On the KIDS menu, select the "Installation" menu, and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*214
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
4. AXP/DSM sites: Answer NO to the question "Want to MOVE routines to other CPUs?"
5. AXP/DSM sites: After the patch has been installed, if any routines were removed from the mapped set in Step 1 above, rebuild your map set.

2.148 XU*8*210 SEQ #177: Change Division Option

Associated patches: (v)XU*8*169 must be installed BEFORE `XU*8*210'

Category: Routine

2.148.1 Description

Problem Statement

Patch XU*8*210 addresses the need for users at multi-divisional or consolidated sites to change the division they represent without having to sign out and then sign back onto the system.

Patch Solution

This patch introduces a new Kernel option XUSER DIV CHG, menu text: Change my Division. It has been added to the TBOX on the COMMON Menu.

Option description:

The Kernel option "Change my Division" allows you to change the division to which you are currently assigned. This option performs the same function as entering your current division at the sign-on prompt "Select DIVISION: default division //".

If you only have one division to select from, XUSER DIV CHG will show you your current division and indicate that you cannot change it.

The following NOIS calls are also corrected:

- HIN-0801-41754, FRE-0801-60466, BAC-0701-41456
- The problem:
In the User Inquiry option, the CPRS Parameter Info is for the wrong person. It has been fixed to report for the correct person.

2.148.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XUSER1	1428663	3013639	**169,210**

List of preceding patches: 169

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUSER1

Routine Checksum:

2.148.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global

- Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued for install at non-peak hours.
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*210'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. DSM Sites, after patch has installed, rebuild your map set.

2.149 XU*8*208 SEQ #178: Strong Verify Cleanup

Associated patches:

(v)XU*8*214	install with patch `XU*8*208'
(v)XU*8*115	must be installed BEFORE `XU*8*208'
(v)XU*8*134	must be installed BEFORE `XU*8*208'
(v)XU*8*180	must be installed BEFORE `XU*8*208'

Category: Routine, Data Dictionary

2.149.1 Description

This Patch Addresses the Following NOIS Calls:

- DAY-0501-41059
- FOR-0701-20582
- CLE-0601-42777
- MEM-0701-70137
- MIN-0701-40152
- DEN-0701-50838

Patch XU*8.0*208 is composed of the following two parts. Each part is described in the form of a Problem Statement and Patch Solution as follows.

Note: All fields added or modified by this patch (XU*8.0*208) and referenced in this patch description reside in the NEW PERSON file (#200).

2.149.1.1 Problem One

Problem Statement:

Patch XU*8*180 introduced a feature whereby the DISUSER flag (#7) was set for any user that had not signed onto the system in the last 90 days. This caused the problem that if the DISUSER flag was cleared and the user did not sign onto the system before the next scheduled time for the XUAUTODEACTIVATE option to run, the DISUSER flag was being set again, causing extra work for IRM. The same problem occurred when a user that was reactivated did not sign onto the system before the XUAUTODEACTIVATE option ran.

Patch Solution:

To fix this problem, a new field ENTRY LAST EDIT DATE (#202.04) was added to the NEW PERSON file (#200) to keep track of the date of some edits. The following fields now trigger the current date to the ENTRY LAST EDIT DATE field: DISUSER, ACCESS CODE (#2), and TERMINATION DATE (#9.2).

The conditions under which the DISUSER field is set have also been changed. If any of the following conditions are true, we don't set the DISUSER flag:

- ;Last sign-on within 90 days
- ;User edited in last 30 days
- ;User set up in last 30 days
- ;Verify code changed in last 30 days

The TERMINATION DATE and DISUSER fields were moved to the first page of the Edit an Existing User ScreenMan form to make them easier to see. This was done in patch XU*8.0*214

2.149.1.2 Problem Two

Problem Statement:

A problem was identified in that not all sign-on code (i.e. XUP, WebMail, POP3 server) was setting the LAST SIGN-ON DATE field (#202).

Patch Solution:

The known places where this was happening have been fixed. Specifically they were: XUP and XUSRA that POP3. WEBMAIL has been patched on FORUM.

2.149.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;Jul 10, 1995
```

Checksum

Routine	Old Checksum	New Checksum	2nd Line
XUP	4867034	5102490	**208**
XUSERNEW	7347033	7464165	**16,49,134,208**
XUSRA	1579938	1722541	**70,115,208**
XUSTERM1	11515045	12346209	**102,180,208**

List of preceding patches: 115, 134, 180

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XUP

Routine Checksum:

Routine Name: XUSRA

Routine Checksum:

Routine Name: XUSTERM1

Routine Checksum:

Routine Name: XUSERNEW

Routine Checksum:

2.149.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSMle mapping for the affected routines.
2. Use th sites - Some of these routines are usually mapped, so you will need to disab e 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:

- Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be queued for install at non-peak hours.
 5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*208'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. DSM Sites, after patch has installed, rebuild your map set.

2.150 XU*8*199 SEQ #179: IOPAR Corrupting Tasks

Associated patches:

(v)XU*8*112	must be installed BEFORE `XU*8*199'
(v)XU*8*175	must be installed BEFORE `XU*8*199'

Category: Routine

2.150.1 Description

Per the patch description below, this patch was intended to correct a problem identified in NOIS reports NOIS: NAS-0700-31644, CHA-0700-32007, MIW-0201-40662, DAY-0401-41059, and BRX-0501-10502.

Problem Statement:

The Text Integration Utility (TIU) has been encountering run away jobs at some sites due to the IO variable IOPAR being left behind by an earlier task. After a lot of work by the sites, National Vista Support (NVS), and TIU developers, the following pattern has been identified: Because the IOPAR variable is left behind by an earlier task, it overrides the normal Open parameter in the DEVICE file (#3.5) if either conditions exist:

- When TIU (or any routine making a call %ZTLOAD) queues to a Host File System (HFS) device, they could experience this problem depending on what devices had been used before.

- If TaskMan opens the device for a task which cannot be opened, TaskMan reschedules the task incorrectly using that same IOPAR variable, which is still in the symbol table. Several places in the code have been fixed to ensure that extra IO variables are not left behind after tasks have finished processing. This patch corrects the problem that the TIU has come across by changing the routine %ZTMS2 to kill the IOPAR variable before setting up the task. The %ZTMS2 routine now kills all IO variables before setting up a call to open a device. In addition, any special IO variables for that device are killed when the routine %ZISC is called to closed the device.
- This patch also introduces a new extrinsic function UNIQUE^ZISUTL, which creates a unique IO parameter. This parameter takes the string \$H_ "-" _\$J and runs a CRC32 on it to get a 10 digit number. If UNIQUE^ZISUTL is called using a parameter, it will concatenate the number just before the last period (.) in the parameter string. Here are some examples on this:

```

W $$UNIQUE( )          >>2987896688
W $$UNIQUE("last")    >>last_9041564
W $$UNIQUE("$USR:[USER.FORT.EDIT]TEST.TMP")
>>$USR:[USER.FORT.EDIT]TEST_2603399923.TMP

```

2.150.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;8.0;KERNEL;<patchlist>;JUL 10, 1995
```

Checksum

Routine	Old Checksum	New Checksum	2nd Line
ZIS	9454725	9332342	**18,23,69,112,199**
ZIS1	10540675	9968286	**18,49,69,104,112,199**
ZISC	8004258	8130420	**24,36,49,69,199**
ZISUTL	2307058	2825748	**18,24,34,69,118,127,199**
ZTMS2	7001305	7090453	**2,18,23,36,67,118,127,163,167,175,199**

List of preceding patches: 112, 175

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZIS
Routine Checksum:

Routine Name: ZIS1
Routine Checksum:

Routine Name: ZISC
Routine Checksum:

Routine Name: ZISUTL
Routine Checksum:

Routine Name: ZTMS2
Routine Checksum:

2.150.3 Installation

Note:

Do not allow users to log in to the system during installation.
Users may remain on the system.
They may get EDITED error if they are selecting a device at the time.
TaskMan does need to be in a wait state.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users could remain on the system. They may get a EDITED error if they are selecting a device at the time. This patch can not be queued. Also place TASKMAN in a wait state. (DO WAIT^ZTMKU) Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users can stay on the system.)
5. In Programmer mode: Use "D ^XPDKRN" then
 - Install Package(s) 'XU*8.0*199'
 - Want KIDS to INHIBIT LOGONs during the install? YES// YES
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account:
 - ZIS
 - ZIS1
 - ZISC
 - ZISUTL
 - ZTMS2
7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 199
8. DSM Sites, after patch has installed, rebuild your map set.
9. Enable user's login.
10. Remove TASKMAN from the wait state. (DO RUN^ZTMKU)

2.151 XU*8*209 SEQ #180: Master File Server (MFS) Enhancements

Associated patches: (v)XU*8*206 must be installed BEFORE `XU*8*209`

Category: Routine

2.151.1 Description

This patch adds additional error checking / reporting to the Master File Server (MFS) mechanism implemented in XU*8*206.

The handler routine XUMFH is enhanced to check for/perform the following:

QRD segment: WHO defined, WHAT defined, KEY not null

MFI/QRD segment (REPLY subroutine): IFN defined (if query)

MSA segment: Trigger message to XUMF ERROR bulletin if CODE is AE or AR (app error/reject)

Error bulletin subroutine: Enhanced to take additional parameters

INIT subroutine: Initializes ARRAY flag so MFE handles ARRAY flag if not MFQ

The clean up routines XUMF4 and XUMF4A were modified. During beta testing at Montana HCS a syntax error was identified that could affect any site that has an entry in the INSTITUTION (#4) file that has a STATUS (#11) of Inactive.

Installing this patch before performing the clean up in 206 will prevent this error from occurring. (Manually removing all STATUS of INACTIVE will also prevent the error.) Also, the facility type information is now handled by special clean up code.

The routine XUMFP4C sets and passes additional information to the XUMF INSTITUTION bulletin.

The XUMF INSTITUTION bulletin now includes information for each segment sequence in the HL7 Interface Specification for the ZIN (Institution) segment. The segment sequence maps to a specific VA FileMan field in the INSTITUTION file (#4).

The XUAF4 routine implements \$\$LEGACY^XUAF4(STA) to determine if STA is a legacy station number.

\$\$STATUS^XUAF4(%1) -- the parameter %1 didn't match the variable used in the body of the function %. %1 replaced with %.

2.151.2 Routines

CHECK^XTSUMBLD

Routine	Old Checksum	New Checksum	2nd Line
XUAF4	3805595	4371108	**43,112,206,209**
XUMF4	7946722	9167436	**206,209**
XUMF4A	5978851	5724102	**206,209**
XUMFH	5277020	7771379	**206,209**
XUMFP4C	4836667	6015828	**206,209**

2.151.3 Installation Instructions

The patch can be installed at anytime. Install time should not take more than two minutes.

1. Users ARE allowed to be on the system during the installation.
2. DSM/AXP sites: These routines are not usually mapped, so you will probably not have to disable mapping.
3. You DO NOT need to stop TaskMan or the background filers.
4. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.

5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - Install Name: XU*8.0*209
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

2.152 XU*8*212 SEQ #181: MFS - Developer / Test Server

Associated patches: (v)XU*8*209 must be installed BEFORE `XU*8*212'

Category: Enhancement (Mandatory)

2.152.1 Description

The IFR project - patch XU*8*206 - implemented a Master File Server (MFS) mechanism. Also included in patch 206 was functionality to clean up the local INSTITUTION (#4) file with data from the Institution Master File (IMF) -- the FORUM server.

The server mechanism was implemented using HL7 as the messaging protocol. The VistA implementation of HL7 provides site parameter specifications regarding environment such as the target account (production, debug, or training).

For reasons of security and other considerations, the target account is included in the HL7 message header. A message to a production link will reject if the header indicates the message is intended for the training account. The HL7 package does not route these messages but rejects them.

Several developers have requested the ability to subscribe to the unsolicited update notifications related to IMF updating. Since the development accounts normally have the HL7 site parameter set to 'training' to avoid any unintentional messages to production systems, it is not possible to subscribe to the IMF FORUM server because that is a production server.

Also, sites have requested the ability to perform and test the IFR patch clean up in their training accounts as well as subscribe to unsolicited update notifications.

A separate developer / test account was required. The Bay Pines Test Lab has provided a host environment to act as a developer / test Master File Server (MFS).

This patch enhances the MFS components and the clean up code related to the INSTITUTION (#4) file clean up to allow sites to connect to either the production server on FORUM or the developer / test server at Bay Pines Test Lab, and allows sites and developers to subscribe to update notifications from the test lab.

2.152.2 Routines

Routine	Old Checksum	New Checksum	2nd Line
XUMF4	9167436	8713427	**206,209,212**
XUMF4A	5724102	5724999	**206,209,212**

2.152.3 Installation Instructions

Warning: Prior to installing Institution File Redesign (IFR) patches (XU*8*206, XU*8*209, and XU*8*212), make a copy of the INSTITUTION (#4) file.

Use ^%GTO (DSM) (for Cache use %GO) to save a copy of the INSTITUTION (#4) file for backup purposes. Following is an example:

```
VAH>D ^%GTO

This routine saves globals to be restored by %GTI
Output Device ? > DIC4.GBL

Header comment... INSTITUTION (#4) file backup
global(s) ? > ^DIC(4)
global(s) ? > ^DIC(4.1)
global(s) ? > ^

Global(s) Selected:
  ^DIC(4)

Output started for ^DIC at 8:19:50 AM

Global transfer finished at 8:19:51 AM

VAH>

In the event of some unforeseen disaster the site decides they need to back
out of the clean up, the site may 'KILL ^DIC(4),^DIC(4.1)' and DO ^%GTI
(DSM)(for Cache use DO ^%GI) to restore the backup copy. This will restore
the data to its original state.
```

The patch can be installed at anytime. Install time should not take more than two minutes.

1. Users ARE allowed to be on the system during the installation.
2. DSM/AXP sites: These routines are not usually mapped, so you will probably not have to disable mapping.
3. You DO NOT need to stop TaskMan or the background filers.
4. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This loads the patch into a Transport Global onto your system.
5. On the KIDS menu, select the "Installation" menu and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - INSTALL NAME: XU*8.0*212
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
7. DSM/AXP Sites: If the routines were unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

2.152.4 Post-Installation Instructions

This patch allows you to run the clean up in a test account without any special set up. The clean up process is documented in the IFR, Supplement to Patch Description (XU*8*206) posted on the web. The web address is

<http://vista.med.va.gov/vdl/#App9> -- see appendix B.

2.153 XU*8*216 SEQ #182: Fix for Patch XU*8*199

Associated patches: (v)XU*8*199 must be installed BEFORE `XU*8*216'

Category: PATCH FOR A PATCH, Routine

2.153.1 Description

NOIS: ALT-1101-22356, DAY-1101-41446, BAY-1101-32090, WAS-1101-22142, DAY-1101-42557, LAS-1101-62483, MAC-1101-62500, NOL-1201-70575

Patch XU*8*199, IOPAR Corrupting Tasks, was released on 11/21/01. After the release of Patch XU*8*199, a new problem was discovered in the use and setting of the IOCPU variable. Unfortunately, this underlying problem was not discovered during the testing phase. To cause the problem you had to use OPEN^%ZISH to open the host file and use ^%ZISC to close it, then without calling ^%ZIS use OPEN^%ZISH again to open a host file when you call ^%ZISC the file would not get closed. Patch XU*8*216 corrects this problem. If sites installed any local modifications to correct this problem, based on advice provided by NVS in NOIS, please remove them prior to or immediately after the installation of this patch. We regret the error and any inconvenience this has caused.

2.153.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: `;;8.0;KERNEL;<patchlist>;JUL 10, 1995`

Checksum

Routine	Old Checksum	New Checksum	2nd Line
ZISC	8130420	8069178	**24,36,49,69,199,216**

List of preceding patches: 199

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZISC

Routine Checksum:

2.153.3 Installation

Note: If you accept a slight risk of jobs getting a CLOBBER/EDITED error users and TaskMan may remain running. Otherwise, stop all other jobs on the system.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global

- Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBBER errors is acceptable, then users and TaskMan can stay on the system.) Also, place TASKMAN in a wait state. (DO WAIT^ZTMKU)
 5. In Programmer mode:
 - Use "D ^XPDKRN" then
 - Install Package(s) 'XU*8.0*216'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account: ZISC
 7. And in the manager account, (OpenM sites remain in VAH)
 - All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 216
 8. DSM Sites, after patch has installed, rebuild your map set.
 9. Enable user's login.
 10. Remove TaskMan from the wait state. (DO RUN^ZTMKU).

2.154 XU*8*200 SEQ #183: KIDS Pre-Init Abort

Category: Routine

2.154.1 Description

KIDS was not recognizing when the abort flag in a Pre-Init routine was set. This problem was reported in NOIS: ISB-0501-30576.

Blood Bank Team Coordination

Clearance - Dec 12, 2001

2.154.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Old Checksum	New Checksum	2nd Line
XPDIJ1	10020629	10031816	**41,68,108,200**

List of preceding patches: 108

Routine Information

Routine Name: XPDIJ1

Routine Checksum:

2.154.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)

- Select INSTALL NAME: XU*8.0*200
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
6. Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
 7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
 8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion

2.155 XU*8*205 SEQ #184: Support for Bar Code Printers

Category: Data Dictionary

2.155.1 Description

This patch adds some new fields to the Terminal Type file (#3.2) in support of Bar Code Medication Administration (BCMA) and barcode printers.

The new field, Control Codes (#55), is a multiple of control codes. The applications that use this field will have to describe to the sites how to populate it. Before any new abbreviations are added to this file see that they have been added to Integration Agreement #3435 first. The Control Code field contains MUMPS code.

Field number	Name
.001	NUMBER
.01	CTRL CODE ABBREVIATION
1	FULL NAME
2	CONTROL CODE

NOIS: PUG-0101-51613

Adds the 'Alternate Syntax for Device Specification' to the Device Handler help.

Adds a new Help Frame 'XUDOC DEVICE ALT SYNTAX' and updates %ZIS7 to use the new Help Frame.

2.155.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: ;;8.0;KERNEL;<patchlist>;JUL 10, 1995

Checksum

Routine	Old Checksum	New Checksum	2nd Line
ZIS7	3002967	2928520	**205**

Sites should use CHECK^XTSUMBLD to verify checksums

Routine Information

Routine Name: ZIS7

Routine Checksum:

2.155.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. TaskMan can remain running.
4. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XU*8.0*205'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
5. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move one routine from your production account to each manager account: ZIS7
6. And in the manager account, (OpenM sites remain in VAH)

- All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 205
7. DSM Sites, after patch has installed, rebuild your map set.

2.156 XU*8*215 SEQ #185: Broker Support

Associated patches: (v)XU*8*136 must be installed BEFORE `XU*8*215'

Category: Routine

2.156.1 Description

Patch XU*8*215

This patch introduces the following three enhancements.

1. A new function named GETPEER has been created to get the IP address of the caller to the TCP service. It has been designed to specifically work with a device connected as a TCP/IP listener in support of RPCBroker.
2. In SHARELIC^%ZOSV, the call made to the Cache operating system utility ^%LICENSE have, in some cases, been resulting in errors which changed the way other errors get handled. This has been resolved by seeing that \$ECODE variable is cleared after the call.
3. Correctly add together the enterprise and division licenses in the \$\$AVJ^%ZOSV call. \$\$AVJ is used by Kernel to check how many available jobs are on the system. Only a few sites have division licenses. Most have enterprise licenses.

2.156.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: `;;8.0;KERNEL;<patchlist>;Jul 10, 1995`

Checksum

Routine	Old Checksum	New Checksum	2nd Line
ZOSVONT	5179130	5640784	**34,94,107,118,136,215**
ZOSVXD	7443216	7675098	**13,65,71,94,107,118,136,215**

List of preceding patches: 136

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: ZOSVVXD
Routine Checksum:

Routine Name: ZOSVONT
Routine Checksum:

2.156.3 Installation

Note: Users may remain on the system. TaskMan does not need to be stopped.

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can not be queued. TaskMan can remain running.
5. In Programmer mode: Use "D ^XPDKRN" then
 - Install Package(s) 'XU*8.0*215'
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. After installing this patch,
 - Cache Sites - you don't need to move anything, skip this step.
 - DSM/MSM sites - you need to move several routines from your production account to each manager account: ZOSVONT, ZOSVVXD
7. And in the manager account, (OpenM sites remain in VAH)

- All sites:
 - DO RELOAD^ZTMGRSET
 - Select the System
 - Patch number to load: 215
- 8. DSM Sites, after patch has installed, rebuild your map set.

2.157 XU*8*202 SEQ #186: KIDS Verify Transport Global

Category: Routine

2.157.1 Description

After installation of Kernel Installation & Distribution System (KIDS) patch XU*8*108, when selecting a build to verify checksums in the transport global, all builds were available to select. The screen, that only allowed builds that exist in the transport global to be selected, was removed in patch XU*8*108. The screen has been added back in.

This problem was reported in NOIS: BHH-0999-40055 & ISD-0301-71106.

Blood Bank Team Coordination

Clearance - Dec 12, 2001

2.157.2 Routines

The following routines are included in this patch. The secondline of each of these routines now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]*;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	2nd Line
XPDDCS	4207018	4262122	**2,44,108,202**

List of preceding patches: 108

Routine Information

Routine Name: XPDDCS

Routine Checksum:

2.157.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN"
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*202
 - Logons do not need to be inhibited.
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
8. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.158 XU*8*221 SEQ #187: Spelling Correction for XUTM Bulletin

Category: Other

2.158.1 Description

This Patch corrects a spelling error in the XUTM Bulletin. Two instances where opening was spelled as 'openning' are corrected. This problem was reported in NOIS: DAY-1001-42136.

Blood Bank Team Coordination

BB Clearance - Feb 4, 2002.

2.158.2 Routines

No routine added.

2.158.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
3. You DO NOT need to stop TaskMan or the background filers.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*221
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

2.159 XU*8*211 SEQ #188: Format of Source Name when Components Are Edited

Associated patches:

(v)XU*8*134 must be installed BEFORE `XU*8*211'

(v)XU*8*152 must be installed BEFORE `XU*8*211'

Category: Data Dictionary, Routine

2.159.1 Description

Background:

Patch XU*8*134, the New Person Name Standardization patch, introduced the NAME COMPONENTS (#20) file that stores the component parts of a name stored in a field in another file (to be referred to as the source name field). A new-style MUMPS-type cross-reference is defined on the NAME COMPONENTS file. It updates that source name field when any of the component parts of the name are edited. The cross-reference helps keep the components in the NAME COMPONENTS file in synch with the source name field.

Prior to this patch, the cross-reference always used the standard form of the name components to build the name to be stored in the source name field. For example, if the name components are changed to:

Family Name: ST. ORES

Given Name: JOHN

The name built and placed in the source field is: STORES, JOHN.

The Patient Name Standardization effort identified a problem with storing standardized names in the .01 field of the PATIENT (#2) file. VistA software often directly accesses the value of the .01 field in $\$P(^DPT(ien,0),U,1)$ for display. Displaying the name in standardized form could result in the name being misrepresented or mispronounced.

Representing and pronouncing a patient's name correctly is considered to be an important element in demonstrating due respect to the patient. It may also be a patient safety issue if, for example, patients called from a waiting room are misidentified.

2.159.1.1 Changes to the Name Components file (#20)

To address the problem, this patch makes two changes to the Name Components file:

- Adds a field: Source Name Format flags (#7).
- Modifies the "ANAME" MUMPS cross-reference.

The "ANAME" cross-reference is modified to look at the contents of the new Source Name Format Flags field to determine how to format the name that is to be stored in the source name field when the component parts of the name are edited. Here is a description of the SOURCE NAME FORMAT FLAGS field:

New field: Source Name Format flags (#7)

Description: When the name fields in the Name Components file are edited, the "ANAME" cross-reference updates the corresponding name field in the source file.

This Source Name Format Flags field can be used to control the format of the name placed in the source name field.

Answer with the flags used in \$\$NAMEFMT^XLFFNAME API. For example,

- C : Return a Comma between the Family (Last) and Given (First) Names.
- L : Truncate the returned name to the maximum length as specified by the data type of the source name field.
- L# : Truncate the returned name to a maximum length of # characters, where # is an integer between 1 and 256.
- S : Standardize the name components before building the formatted name.
- If this field is null (i.e., no flags are specified), the default is "CLS".

Since the contents of the Source Name Format Flags field is null for all New Person file names, and since a default format flags of "CLS" is assumed when the Source Name Format Flags field is null, the names stored in the .01 field of the New Person file will continue to be stored in standard format. The new Source Name Format Flags field, however, can be used by Patient Name Standardization to allow names in the Patient file to be stored in non-standard format.

2.159.1.2 Change to Controlled Subscription API UPDCOMP^XLFFNAME2

The UPDCOMP^XLFFNAME2 API (a controlled subscription API) can be used to update an entry in the NAME COMPONENTS file. This patch adds a new FLAGS parameter to that API:

```
UPDCOMP^XLFFNAME2(FILE,[.]RECORD,FIELD,[.]NAME,PTRFIELD,PTRVAL,FLAGS)
```

The API takes the contents of the FLAGS parameter and stores it in the SOURCE NAME FORMAT FLAGS field of the NAME COMPONENTS file entry being updated. Patient Name Standardization can use this API to initially populate entries in the NAME COMPONENTS file with the flags "CL", for example. If the "S" flag is omitted from the FLAGS parameter, the "ANAME" cross-reference will NOT standardize the NAME COMPONENTS before building the name to be stored in the source name field.

2.159.1.3 Change to Supported Reference API: NAMECOMP^XLFFNAME

This procedure takes a name in standard format and returns in an array the component parts of that name. Before this patch, if the name contained no suffix or middle name portion, the API did not set the nodes in the output array that corresponded to those name components. For example,

- >S MYNAME= "MCDONALD,MARY" D NAMECOMP
^XLFFNAME(.MYNAME) ZW MYNAME
- MYNAME=MCDONALD,MARY
- MYNAME("FAMILY")=MCDONALD
- MYNAME("GIVEN")=MARY

This patch changes the API so that if the name contains no suffix or middle name portion, the corresponding nodes in the output array are set to null:

- >S MYNAME="MCDONALD,MARY" D
NAMECOMP^XLFFNAME(.MYNAME) ZW MYNAME
- MYNAME=MCDONALD,MARY
- MYNAME("FAMILY")=MCDONALD
- MYNAME("GIVEN")=MARY
- MYNAME("MIDDLE")=
- MYNAME("SUFFIX")=

This change also corrects a problem that occurred when you edit the .01 field of the NEW PERSON file directly with FileMan's ENTER OR EDIT FILE ENTRIES option. If you deleted the middle name of an existing entry in the NEW PERSON file, the value of MIDDLE NAME field for the corresponding entry in the NAME COMPONENTS file would not be deleted. For example, if you changed the name of an entry from "SMITH,JOHN A" to "SMITH,JOHN", the MIDDLE NAME field in the NAME COMPONENTS file would still be "A".

2.159.2 Routines

The following routine is included in this patch. The second line of the routine now looks like:

```
<tab>;;8.0;KERNEL;*[patch list]**;Jul 10, 1995
```

CHECK^XTSUMBLD results:

Routine	Before Patch	After Patch	Patch List
XLFFNAME	7311068	7393126	134,211
XLFFNAME2	3037800	3488962	134,211

Routine Information

Routine Name: XLFFNAME2

Routine Checksum:

Routine Name: XLFFNAME

Routine Checksum:

2.159.3 Installation Instructions

This patch can be installed with VistA users online. However, it is recommended that it be installed or queued for install during non-peak times.

TaskMan does not need to be STOPPED or placed in a WAIT state.

1. AXP/DSM sites: Review your mapped routine set. If any of the routine(s) listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set at this time.
2. Use the "INSTALL/CHECK MESSAGE" option on the PackMan menu. This option loads the patch into a Transport Global on your system.
3. On the KIDS menu, select the "Installation" menu, and use the following options to install the Transport Global:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*211
 - Want KIDS to INHIBIT LOGONs during the install? NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
4. AXP/DSM sites: After the patch has been installed, if any routines were removed from the mapped set in Step 1 above, rebuild your map set.

2.160 XU*8*173 SEQ #189: Correct Alert Surrogate Processing

Category: Routine, Data Dictionary

2.160.1 Description

Warning: If your site does not purge old alerts the post install routine, which reindexes the "B" cross-reference of the FILE: ALERT TRACKING (# 8992.1), may take considerably longer than would be the case if you regularly purge. In that case, you will want to schedule the installation so the post installation routine may run on a weekend or overnight.

1. Surrogates for processing alerts may have an end date and time for the surrogate relationship. The actual removal of the surrogate has been performed when the next alert was sent to an individual. This resulted, however, in the user still appearing to have a surrogate after the stated end time if another user tried to set them as their surrogate. This patch modifies the processing so that the removal of the specified surrogate happens on any surrogate related look-up after the specified end time. This will correct the problem that had been reported (E3R #14940).
2. Code has been modified to correct problems identified with setting surrogates (BRX-1000-10427, COS-0401-41366, WRJ-1201-11337).
3. The problem indicated as a mismatch in XQAID values (ISL-0200-52883) is handled by a re-indexing of the "B" cross-reference in FILE: ALERT TRACKING (#8992.1) in the post-installation routine.
4. A small change was made in XQALERT to clarify the way in which alerts are referenced from the menu system (ISL-0898-51279) and to correct a potential problem with matching the "B" cross-reference in FILE: ALERT TRACKING (#8992.1).
5. A cross-reference was added to FIELD: SURROGATE (#.02) of FILE: ALERT (#8992) to permit rapid lookup of users who have specified a selected user as their surrogate (E3R #15158). This is made available via the "XQAL SURROGATE FOR WHICH USERS" (View Surrogate for Which Users) option on the XQALERT MGR menu. The supported reference API SUROFOR^XQALSURO has been added for other applications to access this data.

D SUROFOR^XQALSURO(.LIST,USERDUZ) will return data in the variable LIST. The value of LIST indicates the number of entries returned. The array list will return the users DUZ value in file 200 and the NAME (.01) field from file 200 separated by an '^'.

- LIST = 3
- LIST(1) = "54^LNAME1,FNAME1"
- LIST(2) = "75^LNAME2,FNAME2"
- LIST(3) = "247^LNAME3,FNAME3"

The post-install routine, XQAL173P, also builds the cross-reference for current surrogates. This routine is set to be removed following the installation.

6. In addition, it was noted that while interactive specification of a surrogate checked for cyclic relationships among surrogates, the API for non-interactive setting of a surrogated (SETSURO^XQALSURO) simply set the specified surrogate. While this API can continue to be used, a new API (SETSURO1^XQALSURO) has been created which should be used to obtain a return value (1 if successful, 0 if not successful) indicating whether the surrogate could be set.

```
S
VAL=$$SETSURO1^XQALSURO(USERDUZ,SURODUZ,STRTRDATE,EN
DDATE)
```

Where USERDUZ and SURODUZ are the internal entry numbers in file 200 for the user and selected surrogate, respectively. STRTRDATE and ENDDATE are optional date/time values for when the surrogate relationship should start and end. If STRTRDATE is not specified, the surrogate becomes active immediately. If ENDDATE is not specified, the surrogate remains active until another surrogate is specified or the surrogate is removed.

2.160.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;8.0;KERNEL; **[patch list]**;Jul 10, 1995
```

Checksums obtained using CHECK^XTSUMBLD

Routine	Old Checksum	New Checksum	2nd Line
XQALERT	5402974	5560549	**1,65,125,173**
XQALERT1	30893715	30919356	**20,65,114,123,125,164,173**
XQALSET	14823261	15152866	**1,6,65,75,114,125,173**
XQALSURO	7933100	12681484	**114,125,173**
XQAL173P	N/A	304597	**173**

List of preceding patches: 125,164

Routine Information

Routine Name: XQALSURO

Routine Checksum:

Routine Name: XQALERT

Routine Checksum:

Routine Name: XQAL173P

Routine Checksum:

Routine Name: XQALSET

Routine Checksum:

Routine Name: XQALERT1

Routine Checksum:

2.160.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation but if you have not recently run a scheduled purge of old alerts you may want to schedule the installation for off hours.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - Return to Programmers Prompt and use "D ^XPDKRN":
 - Select KIDS OPTION: Install
 - Install Package(s)
 - Select INSTALL NAME: XU*8.0*173
 - Checking Install for Package XU*8.0*173
 - Install Questions for XU*8.0*173
 - Incoming Files:
 - ALERT (Partial Definition)

Note: You already have the 'ALERT' File.

- Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

- Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
 7. If the routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

2.161 XU*8*226 SEQ #190: API TO Return Default Division

Category: Routine, Enhancement (Mandatory)

2.161.1 Description

NOIS: PBG-0102-N2960

This patch modifies \$\$DIV4^XUSER(.RES,USER) to return a DEFAULT division in the New Person file.

DSS, Inc has the national contract for the Dental Record Manager (DRM), a Graphic User Interface (GUI) front end to the VistA Dental package. The original and main functionality of DRM was to provide a single interface for dental providers to enter Patient Care Encounter (PCE) data, check out appointments, do progress notes, file data to the old VistA Dental Automated Medical Information System (AMIS). To file data to dental AMIS, the provider needs to indicate which division it is for. The old VistA dental package has its own division file. In GUI, radio buttons are provided for users to indicate which division. Currently they are left blank and users must indicate which one.

Users are requesting that a default division be set, but still allow the field to change it. The default division for the users will be pulled from the NEW PERSON (#200) file's DIVISION (#16) multiple especially since Data Dictionary for the multiple field prevents the entering of more than one default.

Blood Bank Team Coordination

Clear - 2/26/02

2.161.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: <tab;;8.0;KERNEL;*[patches list] **;Jul 10, 1995

Checksums obtained using CHECK^XTSUMBLD

Routine	Old Checksum	New Checksum	2nd Line
XUSER	2107735	2163059	**75,97,99,150,226**

Routine Information

Routine Name: XUSER

Routine Checksum:

2.161.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
 - On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s)
 - Select INSTALL NAME:XU*8.0*226
 - Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

3.0 RPC Broker (XWB) V 1.1 Patches

3.1 XWB*1.1*1 SEQ #1: Some Small Fixes

Category

Routine

3.1.1 Description

\$TXT Created by FORT,WALLY at KERNEL.ISC-SF.VA.GOV (KIDS) on THURSDAY, 11/13/97 at 15:52

This patch fixes some small problems that were discovered after release.

XWBTCPL Remove the SYMBOL_TABLE from the VAX DSM JOB command.

XWBTCP When stopping the Broker, Catch a failure to open a socket.

XWB BROKER EXAMPLE option was missing its type field.

3.1.2 Routines

Checksum

Routine	Old	New	2nd Line
XWBTCP	8888247	9081629	**1**
XWBTCPL	8380513	8215020	**1**

Routine Information

Routine Name: XWBTCP

Routine Checksum:

Routine Name: XWBTCPL

Routine Checksum:

3.1.3 Installation

1. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.

3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system but, The Listener must be stopped before installing this patch.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*1'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. DSM Sites, after patch has installed, rebuild your map set.
8. Restart the Broker Listener

3.2 XWB*1.1*2 SEQ #2: Encryption, Data Collection, Agent

Category: Routine

3.2.1 Description

This patch addresses three problems with RPC Broker v1.1

Encrypted Literal:

A leading period (".") in a LITERAL parameter can cause a pattern match failure in RPCs. This type of literal is common when data is encrypted. The failure only occurs with RPCs that combine multiple literals and an array. This fix addresses the needs of NOIS WAS-0398-22800

Data Collection Switch:

The original version of the broker automatically collected Response Time data. This was done to fulfill a request from Capacity Management since at the time; no baseline data existed for Vista client-server Applications. The broker will not do this any longer. Collection will be controlled by the use of the Capacity Management tools, allowing the site to decide when to turn data collection on or off. This fix addresses the needs of NOIS BRX-0498-11768 and HUN-0498-21137.

Note: The Capacity Management option "Enable/Disable RT Logging" looks at the old Kernel Site Parameters file instead of the new Kernel System Parameters file. So, using this option will not enable/disable the RTM. The Capacity Management team is aware of this and is going to issue a patch. In the meantime, a site has to use FileMan to manually turn the RTM on/off in file 8989.3 (Kernel System Parameter). The field is the LOG SYSTEM RT and its within the VOLUME SET multiple.

Example:

Select OPTION: ENTER OR EDIT FILE ENTRIES

Select KERNEL SYSTEM PARAMETERS DOMAIN NAME: 1
KERNEL.ISC-SF.VA.GOV

10 Second Network Timeout in Client Agent

A 30 second timeout is being switched to 10 for network communications with client agent. In the event of network problems, this should prevent delays to exceed minutes in communications between the server and the workstation client agent. No current NOIS addresses this, this effect was discovered by the SF CIOFO.

3.2.2 Installation

1. DSM sites - Some of these routines MAY BE mapped, so you will need to disable mapping for the effected routines. Broker routines do not need to be mapped.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. All RPC Broker users should log off. Since no changes are made to the main server routines, sites do not need to shut down the listener jobs, BUT sites may choose to do if it makes it easier to control users trying to log on during the routine update.
5. On the KIDS menu, under the 'Installation' menu, use the following option:

- Install Package(s) 'XWB*1.1*2'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
 7. DSM Sites, after patch has installed, rebuild your map set.
 8. Restart the Broker Listener if necessary.

3.2.3 Routine Information

Routine Name: XWBBRK

Routine Checksum:

OLD: 4495672

NEW: 4562161

Routine Name: XWBTCPC

Routine Checksum:

OLD: 8204793

NEW: 8099567

Routine Name: XWBCAGNT

Routine Checksum:

OLD: 2022848

NEW: 2022488

3.3 XWB*1.1*3 SEQ #3: Security Log problem

Associated patches: (v) XU*8*82 install with patch `XWB*1.1*3'

Category: Routine

3.3.1 Description

NOIS	Routine	Description
DAY-0898-41587	XWBSEC	Under CPRS when the DG routines call OP^XQCHK to record what option is used it was getting back "unknown." The broker created context needed to set the variable XQY.

3.3.2 Routines

Checksum

Routine	Old	New	2nd Line
XWBSEC	1126915	1317713	**3**

Checksum's calculated by CHECK^XTSUMBLD

Routine Information

Routine Name: XWBSEC

Routine Checksum:

3.3.3 Installation

1. DSM sites - XWB* routines DO NOT need to be mapped.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. Users can remain on the system. Stop the Broker server(s), Stop any broker clients. (Each RPC call passes through this routine.)
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*3'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

3.4 XWB*1.1*5 SEQ #4: RUM Support

Associated patches: (v) XU*8*107 must be installed BEFORE `XWB*1.1*5'

Category: Routine

3.4.1 Description

This patch is for the support of RUM. This will allow the trapping of data for Remote Procedure Calls (RPCs) and the RPC Broker handler.

3.4.2 Routines

Checksum

Routine	Old	New	2nd line
XWBBRK2	2982680	3134294	**5**
XWBTCPC	8099567	8239171	**2,5**

Routine Information

Routine Name: XWBBRK2

Routine Checksum:

Routine Name: XWBTCPC

Routine Checksum:

3.4.3 Installation

1. DSM sites - The Broker routines are not usually mapped. Disable mapping if necessary.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. All RPC Broker users should log off. Since no changes are made to the main server routines, sites do not need to shut down the listener jobs, BUT sites may choose to do if it makes it easier to control users trying to log on during the routine update. Every RPC call passes through these routines.
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*5'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
7. DSM Sites - Rebuild your map set if necessary.
8. Restart the Broker Listener if necessary.

3.5 XWB*1.1*7 SEQ #5: Broker Listener/Available Slots

Category: Routine

3.5.1 Description

This patch addresses two problems:

A command error occurring at RESTART+17^XWBTCPL when the Broker tries to reopen a device that is not closed. This seems to be a problem with Cache sites only. The result of this error causes the Broker Listener to stop. This fix is in XWBTCPL routine.

The other problem deals with available slots. The listener does not check for available slots before starting a new process. The listener will now check the MAX SIGNON ALLOWED field of the VOLUME SET multiple in the KERNEL SYSTEM PARAMETERS file, the same one used by Kernel logon. This fix is also in XWBTCPL.

Note: This is a server side patch only.

NOISs:

MRN-1198-42547 - Broker Listener

WIC-0399-42263 - Broker Listener

MAR-0499-20186 - Broker Listener

CHY-1298-52305 - Broker Listener

CTX-0499-70598 - Available Slots

PUG-0399-51484 - Available Slots

3.5.2 Routines

Routine Summary:

The following routine is included in this patch. The second line of this routine now looks like: ;;1.1;RPC BROKER;<patchlist>;Mar 28, 1997

Checksum

Routine	Old	New	2nd Line
XWBTCPL	8215020	8850625	**1,7**

List of preceding patches: 1

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XWBTCPL

Routine Checksum:

3.5.3 Installation

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and verify if any XWBTCP routines are running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.
2. Stop the Broker Listener on the server. Check the system status and verify if the XWBTCPL routine is running (i.e., Broker Listener). If it is running, stop it. To stop the Listener, do the following:
 - a. Log into your M server.
 - b. Enter the following at the M prompt:
 - >D STOP^XWBTCP(Listener port) (Typically, the Listener port is 9200)
3. Broker routines are not usually mapped on systems that allow it, so you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
 - On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*7'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

7. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
8. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
9. Restart the Broker Listener on the Server:
 - a. Log into your M server
 - b. Enter the following at the M prompt:
 - >D STRT^XWBTCP(Listener port) (Typically, the Listener port is 9200)

3.6 XWB*1.1*4 SEQ #6: Updated BDK and Kernel Login Fixes

Associated patches:

(v)XWB*1.1*5 must be installed BEFORE `XWB*1.1*4'

(v)XU*8*109 must be installed BEFORE `XWB*1.1*4'

Category: Informational, Routine

3.6.1 Description

This patch:

- Introduces a shorter timeout when logging in via any GUI application that is using the Broker. The server listener process will timeout after 90 seconds if the user has not passed in his/her access and verify codes. Users of existing GUI applications that were compiled under an older version of the BDK will not see the shorter timeout unless the GUI application is recompiled. It is highly recommended that applications be recompiled using the new BDK to take advantage of the shorter timeout during login.
- Updates the Broker's programmer client workstation software -- also known as the Broker Development Kit (BDK) -- adding support for Delphi 4 development.
- Fixes a bug in which the title bar of the Kernel login form was being changed when a user started entering their access code.

3.6.2 Important Notes

This patch consists of two parts:

- Packman message containing the XWB*1.1*4 KIDS build.

- An updated BDK (programmer client workstation software).
1. Packman message containing the XWB*1.1*4 KIDS build. It installs two modified XWB* routines used by the Broker server. This part of the patch is mandatory.
 2. Updated BDK (programmer client workstation software). All sites doing Broker development are encouraged to retrieve the patched BDK.

Note: This version of the BDK only supports Delphi 4 and Delphi 3.

Do not install this programmer client workstation software at end-user client workstations. If you are not using the BDK in any local or national development, you do not need to retrieve the Broker's programmer client workstation software. The software does not update the Broker software that is running at end-user client workstations.

3.6.3 Software Distribution

File names	Description	Blocks	Bytes
XWB1_1P4PG.EXE	BDK Self-Installing Executable	2944	1507118
XWB1_1P4IG.PDF	Installation Guide	382	195583
XWB1_1RM.TXT	Readme text file	15	7355

Note: Use Binary mode for .PDF, and .EXE files. Use ASCII mode for .TXT file.

To access the updated BDK, use FTP to retrieve the software from one of the following CIO Field Offices' ANONYMOUS.SOFTWARE directories:

CIO FIELD OFFICE	FTP Address
Hines	152.129.1.110
Albany	152.127.1.5
Salt Lake City	152.131.2.1

3.6.4 Broker-Dependent Components

Some components, such as the FileMan Delphi Components, reference the TRPC Broker component. If you use such components for development, be aware that installing a new version of the TRPC Broker component (i.e. a new BDK) may cause incompatibilities in Delphi, resulting in a compile failure of the unit containing the Broker-dependent component and the following compilation error:

Unit <unit1> was compiled with a different version of <unit2>.

Check with the creators of the Broker-dependent component to make sure that, with regards to the version of the BDK you are about to install:

- Your current component is compatible, or
- You can obtain a new version of the component that is compatible.

For the FileMan Delphi Components (FMDC), patch FMDC*1.0*1 brings in a new version of FMDC compatible with the updated BDK. Please refer to the Patch Module for more information on this FMDC patch.

3.6.5 Routines

Routine summary

The following is a list of the routines included in this patch. The second line of each of these routines now looks like: <tab>;1.1;RPC BROKER;[patch list];date

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XWBBRK	4562161	4567623	2,4
XWBTCPC	8239171	7518635	2,5,4

Routine Information

Routine Name: XWBBRK
Routine Checksum:

Routine Name: XWBTCPC
Routine Checksum:

3.6.6 Installation

Server Side

Use the following instructions in installing this server-side RPC Broker patch. Do NOT follow the M Server Installation Instructions in the RPC Broker Installation Guide to install the server portion of this patch. The instructions in the Installation Guide are for virgin server installations and server version upgrades only.

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and verify if any XWBTCPC routine is running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.

2. Stop the Broker Listener on the server. Check the system status and verify if the XWBTCPL routine is running (i.e., Broker Listener). If it is running, stop it. To stop the Listener, do the following:
 - Log into your M server.
 - Enter the following at the M prompt:
 - >D STOP^XWBTCPL(Listener port) (Typically, the Listener port is 9200)
3. These routines are not usually mapped on systems that allow it, so you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
5. The patch has now been loaded into a Transport global on your system. On the KIDS menu, select the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*4'
7. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
8. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
9. Restart the Broker Listener on the Server:
 - Log into your M server
 - Enter the following at the M prompt:
 - >D STRT^XWBTCPL(Listener port)

Client Side

Please follow the 'Programmer Client Workstation Installation Instructions' in the RPC Broker Installation Guide (XWB1_1P4IG.PDF).

3.7 XWB*1.1*6 SEQ #7: Eliminate Orphaned Server Jobs

Associated patches:

(v) XWB*1.1*4 must be installed BEFORE `XWB*1.1*6'

(v) XU*8*115 must be installed BEFORE `XWB*1.1*6'

Category: Routine

3.7.1 Description

This patch eliminates server Broker jobs for which there is no client application. These 'ghost' jobs have occurred when client processes are ended in a non-standard way - for example, by pressing the PC's reset button.

Note: The server side of this patch is effective only for client applications (like CPRS-GUI) that have been recompiled with the Broker Development Kit portion of the patch. So, installing the server patch alone will not eliminate the ghost jobs for client applications that have not been upgraded.

Prior to this patch, these jobs would wait for 10 hours to receive data from the client application that no longer exists. Two significant negative effects of the ghost jobs are 1) consumption of a licensed process, reducing the available number of user jobs and 2) retention of application resources (particularly LOCKs) that interferes with subsequent user actions. Other than waiting 10 hours for these jobs to finally timeout, the only way to get rid of the ghost jobs was for IRM to manually kill them.

This patch changes the time that the server waits for the client to contact it. The length of the timeout is controlled by a new field in the Kernel System Parameters file: `BROKER ACTIVITY TIMEOUT`. That field is distributed by Kernel patch XU*8.0*115 with a default value of approximately 3 minutes. By setting the timeout to a duration much shorter than 10 hours, the ghost jobs are eliminated quickly if the client application is no longer running. See the help for the `BROKER ACTIVITY TIMEOUT` field for advice regarding changing the value for this field.

In order to let the server know that the client application is still active, the client portion of this patch initiates a periodic, background contact with the server. This 'polling' of the server by the client resets the timeout so that the server job is not stopped when the client still exists. Any client application compiled with the RPC Broker component distributed with this patch automatically polls. No developer or user intervention is necessary, and this polling activity affects neither the application nor the user.

This patch specifically resolves problems raised in the following NOISs:

BIR-0399-32032 GUI LOCKES UP ON USERS

OKL-1298-70542 LOCKOUT FROM GUI

HUN-0898-21008 Providers are locked out of record
 SAG-0898-40564 TIMEOUT MANAGMENT ON GUI
 DAY-0798-40953 No DTIME in XWBTCPC
 TUA-0598-30739 GUI JOBS HANGING AROUND
 WAS-0198-20958 SYSTEM NOT RELEASING USER AFTER CLOSING CHART
 BIR-0699-31167 BROKER TIMEOUT
 SDC-0499-62471 PATIENT RECORDS LOCKED UP
 ALB-0499-52063 Patient Record Locked
 HIN-0599-42485 CPRS CONNECTIONS REMAIN ACTIVE AFTER LOGOUT

It also fulfills a request made in the following E3R:

9646 CHANGE OF MAIN TIMED READ FOR BROKER

3.7.2 Important Notes

This patch consists of two parts:

- Packman message containing the XWB*1.1*6 KIDS build.
 - An updated Broker Development Kit (programmer workstation software).
1. The packman message containing the XWB*1.1*6 KIDS build installs three modified XWB* routines and a new RPC (entry in the Remote Procedure file) used by the Broker server. This part of the patch is mandatory.
 2. Updated BDK (programmer client workstation software). All sites doing Broker development are encouraged to retrieve the patched BDK. Note that this version of the BDK only supports Delphi 4 and Delphi 3.

3.7.3 Routines

Routine Summary

The following is a list of the routines included in this patch. The second line of each of these routines now looks like: <tab>;1.1;RPC BROKER:[patch list];date

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XWBTCPC	7518635	7635440	2,5,4,6
XWBLIB	674092	720789	6
XWBSEC	1317713	2113752	3,6

Routine Information

Routine Name: XWBLIB

Routine Checksum:

Routine Name: XWBSEC

Routine Checksum:

Routine Name: XWBTCPC

Routine Checksum:

3.7.4 Software Distribution

File names	Description	Bytes
XWB1_1P6PG.EXE	BDK Self-Installing Executable	1,500,607
XWB1_1P4IG.PDF	Installation Guide	195,583
XWB1_1RM.TXT	Readme text file	13,428*

*The size of this file will change in the future as additions are made.

Note: Use Binary mode to retrieve .PDF, and .EXE files. Use ASCII mode to retrieve .TXT file.

To obtain the updated BDK, use FTP to retrieve the software from one of the following CIO Field Offices' ANONYMOUS.SOFTWARE directories:

CIO Field Office	FTP Address
Hines	152.129.1.110 (isc-chicago.va.gov)
Albany	152.127.1.5 (isc-albany.va.gov)
Salt Lake City	152.131.2.1 (isc-slc.va.gov)

3.7.5 Compatibility with Prior Versions

The server portion of this patch is backwards compatible with client applications compiled with previous versions of the Broker. So, client applications do not have to be recompiled when this patch is installed on the server. The server retains a 10-hour timeout for those client applications compiled with previous Broker versions; that is, they continue to work as they did before the patch is installed.

If an application is compiled with the BDK for XWB*1.1*6, the server XWB*1.1*6 patch **MUST** be installed for that application to run. That is, client portion of this patch requires that the server portion be installed.

3.7.6 Broker-Dependent Components

The following comments apply only to those developing applications with the BDK (programmer workstation software). They are not relevant to server operation.

Some components, such as the FileMan Delphi Components, reference the TRPC Broker component. If you use such components for development, be aware that installing a new version of the TRPC Broker component (i.e., a new BDK) may cause incompatibilities in Delphi, resulting in a compile failure of the unit containing the

Broker-dependent component and the following compilation error:

- Unit <unit1> was compiled with a different version of <unit2>.

Check with the creators of the Broker-dependent component to make sure that, with regards to the version of the BDK you are about to install:

- Your current component is compatible, or
- You can obtain a new version of the component that is compatible, or
- You have the source (.pas, .dfm, .dpc, etc.) files available so that the component can be recompiled successfully.

For the FileMan Delphi Components (FMDC), patch FMDC*1.0*1 brings in a new version of the FMDC that includes the source files. Please refer to the Patch Module for more information on this FMDC patch. Additional instructions regarding installing and recompiling FMDC when the Broker is upgraded are in XWB1_1RM.TXT found in the ANONYMOUS.SOFTWARE directories mentioned above and on the FMDC web page.

3.7.7 Installation

Do Not Install This Programmer Client Workstation Software On End-User Client Workstations. If you are not using the BDK in any local or national development, you do not need to retrieve the Broker's programmer client workstation software. The patch does not update the Broker software that is running at end-user client workstations.

Server Side

The following are the installation instructions for the KIDS distribution for XWB*1.1*6:

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and see if any XWBTCPC routine is running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.
2. Stop the Broker Listener on the server. Check the system status and see if the XWBTCPL routine is running (i.e., Broker Listener). If it is running, stop it. To stop the Listener, do the following:
 - Log into your M server.
 - Enter the following at the M prompt:
 - >D STOP^XWBTCPL(Listener port) (Typically, the Listener port is 9200)

3. These routines are not usually mapped on systems that support mapping; so, you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
 - The patch has now been loaded into a Transport global on your system. On the KIDS menu, select the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*6'
6. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
8. Restart the Broker Listener on the Server:
 - Log into your M server
 - Enter the following at the M prompt:
 - >D STRT^XWBTCP(Listener port)

Client Side

Please follow the instructions in the most recent Broker 1.1 Installation Guide.

3.8 XWB*1.1*8 SEQ #8: GUI Multi-Division Support

Associated patches:

(v) XU*8*115 must be installed BEFORE `XWB*1.1*8'

(v) XWB*1.1*6 must be installed BEFORE `XWB*1.1*8'

Category: Informational, Other

3.8.1 Description

Y2K WAIVER - #Y2KW0001

This patch supports GUI Multi-Divisional sign on. If a user has more than one division to choose from, the user must select one before continuing with sign on. If the user has only one division in file 200, this division will be used; else, the default institution in the Kernel System Parameters file will be used.

This patch specifically resolves problems reported in the following NOISs:

EKH-1298-40440 Divisional Parameters

EKH-0399-40543 WHEN ENTERING THROUGH THE GUI the submit request

HVH-0699-12732 GUI ONLY USES PRIMARY SITE FIELDS: IC LAB ORDERS

FGH-0299-32563 MultiDivisional Capabilities

BHH-0799-41993 Lab Collection Printing Problem for Integrated Sites

3.8.2 Important Notes

This patch consists of 1 part ONLY:

An updated Broker Development Kit (BDK), the programmer workstation software. All sites doing Broker development are encouraged to retrieve the patched BDK. Note that this version of the BDK only supports Delphi 4 and Delphi 3. This patch does not support Delphi 5.

Do not install this programmer client workstation software on end-user Client Workstations. If you are not using the BDK in any local or national development, you do not need to retrieve the Broker's programmer client workstation software. The patch does not update the Broker software that is running at end-user client workstations.

3.8.3 Software Distribution

File Names	Description	Bytes
XWB1_1P8PG.EXE	BDK Self-Installing Executable	1,636,409
XWB1_1P4IG.PDF	Installation Guide	195,583
XWB1_1RM.TXT	Readme text file	13,428*

*The size of this file will change in the future as additions are made.

Note: Use Binary mode to retrieve .PDF, and .EXE files. Use ASCII mode to retrieve .TXT file.

To obtain the updated BDK, use FTP to retrieve the software from one of the following CIO Field Offices' ANONYMOUS.SOFTWARE directories:

CIO FIELD OFFICE	FTP Address
Hines	152.129.1.110 (isc-chicago.va.gov)
Albany	152.127.1.5 (isc-albany.va.gov)
Salt Lake City	152.131.2.1 (isc-slc.va.gov)

3.8.4 Broker-Dependent Components

The following comments apply only to those developing applications with the BDK (programmer workstation software). They are not relevant to server operation.

WARNING

Some components, such as the FileMan Delphi Components, reference the TRPC Broker component. If you use such components for development, be aware that installing a new version of the TRPC Broker component (i.e., a new BDK) may cause incompatibilities in Delphi, resulting in a compile failure of the unit containing the Broker-dependent component and the following compilation error:

Unit <unit1> was compiled with a different version of <unit2>.

Check with the creators of the Broker-dependent component to make sure that, with regards to the version of the BDK you are about to install:

- a. Your current component is compatible, or
- b. You can obtain a new version of the component that is compatible, or
- c. You have the source (.pas) files available so that the component can be recompiled successfully.

For the FileMan Delphi Components (FMDC), patch FMDC*1.0*1 brings in a new version of the FMDC that includes the source files. Please refer to the Patch Module for more information on this FMDC patch. Additional instructions regarding installing and recompiling FMDC when the Broker is upgraded are in XWB1_1RM.TXT found in the ANONYMOUS.SOFTWARE directories mentioned above and on the FMDC web page.

3.8.5 Client Side Installation

THIS IS A CLIENT SIDE PATCH ONLY. Please follow the instructions in the most recent Broker 1.1 Installation Guide.

3.9 XWB*1.1*9 SEQ #9: Cache License Fix

Category: Routine

3.9.1 Description

Y2K Waiver # Y2K0001

This patch fixes the following:

1. Intersystems License. This is the patch that works with patch XU*8*118. The code to share licenses when GUI and Telnet users from the same workstation are connected is in place and ZU now calls it. This patch adds a similar call from XWBTCPC.
2. This patch brings a new XWB LISTENER STOP ALL option for shutting down multiple listeners. It also brings a modified option XWB LISTENER STARTER for starting Broker listeners.

These changes fulfill the functionality requested in the following E3Rs:

- 11934, RPC broker file shows running on openM fail over
- 10705, Listeners not stopped will not start up
- 8789, Create menu startup and shutdown options

The changes also resolve the problems reported in the following NOIS calls:

- DAY-0796-40646, Startup Queue of Listener
- FRE-0299-60491, Broker Not Starting Automatically

Here are the definitions of the options:

Name: XWB Listener Starter

Menu Text: Start All RPC Broker Listeners

Type: run routine

Creator:

Package: RPC Broker

Delegable: Yes

Description: This option will Start/Restart all the RPC Broker listeners under the control of the RPC BROKER SITE PARAMETERS file. It is normally setup as a STARTUP type option in the TaskMan option-scheduling file. These options will first STOP ALL listeners and then START ALL the listeners through TaskMan. (VMS sites need to be running TaskMan in DCL context). The XWB LISTENER STARTER cannot be used to start one particular listener. To do this, in programmer mode, use STRT^XWBTCPC(port number) on the node the listener needs to run on. Or use the XWB LISTENER EDIT option to change the status of the one listener.

Routine: Restart^XWBTCPC

Scheduling Recommended: Startup

Uppercase Menu Text: Start all RPC Broker Listeners

Name: XWB Listener Stop All

Menu Text: Stop all RPC Broker Listeners

Type: run routine

Creator:**Package:** RPC Broker**Delegable:** yes**Description:** This option will stop all the RPC Broker listeners under the control of the RPC BROKER SITE PARAMETERS file.**Routine:** STOPALL^XWBTCP**Uppercase Menu Text:** Stop all RPC Broker Listeners

3. The code called by the XWB LISTENER STARTER option had a bug that caused it to start the listeners on the default port of 9000. This problem is fixed. The following NOIS calls reported the bug.

- BEC-0999-21188 XWB LISTENER STARTER
- STX-0999-71581 BROKER STARTING 9000 IGNORING PARAME

4. A new menu option, XWB MAIN MENU, is included in this patch. Another option, XWB LISTENER EDIT, is also included. Here are the option definitions:

Name: XWB Menu

Menu Text: RPC Broker Management Menu

Type: menu

Creator:

Package: RPC Broker

Delegable: No

Description: This is the main menu for RPC Broker.

Item: XWB Listener Stop All

Display Order: three

Item: XWB Listener Edit

Display Order: one

Item: XWB Listener Starter

Display Order: two

Timestamp: 58079,48431

Uppercase Menu Text: RPC Broker Management Menu

Name: XWB Listener Edit

Menu Text: RPC Listener Edit

Type: edit

Creator:

Package: RPC Broker

Delegable: NO

Description: This option allows for editing the RPC Broker Site Parameters file (#8994.1).

DIC {DIC}: XWB(8994.1,
 DIC(0): AEMQ
 DIE: XWB(8994.1,
 DR {DIE}: [XWB Listener Edit]
 Timestamp of Primary Menu: 58078,56469
 Uppercase Menu Text: RPC Listener Edit

Note: This is a server side only patch

The updated RPC Broker Systems Manual and the RPC Broker Technical Manual may be retrieved at the following CIO Field Offices' ANONYMOUS.SOFTWARE directories:

Hines 152.129.1.110 (isc-chicago.va.gov)

Albany 152.127.1.5 (isc-albany.va.gov)

Salt Lake City 152.131.2.1 (isc-slc.va.gov)

Use Binary mode for these .PDF files:

XWB1_1P9SM.PDF RPC Broker Systems Manual 239,932 bytes

XWB1_1P9TM.PDF RPC Broker Technical Manual 97,158 bytes

3.9.2 Routines

Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: ;;1.1;RPC BROKER;<patchlist>;Mar 28, 1997

Checksum

Routine	Old	New	2nd Line
XWBTCP	9081629	10677300	**1,9**
XWBTCPC	7635440	7568523	**2,5,4,6,9**
XWBTCPL	8850625	8934371	**1,7,9**

List of preceding patches: 6, 7

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XWBTCP

Routine Checksum:

Routine Name: XWBTCPC

Routine Checksum:

Routine Name: XWBTCPL

Routine Checksum:

3.9.3 Installation

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and verify if any XWBTCPC routines are running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.
2. Stop the Broker Listener on the server. Check the system status and verify if the XWBTCPL routine is running (i.e., Broker Listener). If it is running, stop it. To stop the Listener, do the following:
 - a. Log into your M server.
 - b. Enter the following at the M prompt:
 - >D STOP^XWBTCP (Listener port) (Typically, the Listener port is 9200)
3. Broker routines are not usually mapped on systems that allow it, so you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*9'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

7. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
8. Restart the Broker Listener on the Server:
 - a. Log into your M server
 - b. Enter the following at the M prompt:
 - >D STRT^XWBTCP(Listener port) (Typically, the Listener port is 9200)

3.10 XWB*1.1*11 SEQ #10: Delphi 5 Support

Category: Informational

3.10.1 Description

Y2K WAIVER - #Y2K0001

This patch updates the Broker's programmer client workstation software --also known as the Broker Development Kit (BDK) -- adding support for Delphi 5 development.

Important Notes:

This patch consists of two parts:

1. Packman message containing the XWB*1.1*11 KIDS build. The packman message simply updates the version multiple of the package.
2. Updated BDK (programmer client workstation software). All sites doing Broker development are encouraged to retrieve the patched BDK. This version of the BDK supports Delphi 5, Delphi 4, and Delphi 3.

Do not install this programmer client workstation software at end-user Client Workstations. If you are not using the BDK in any local or national development, you do not need to retrieve the Broker's programmer client workstation software. The software does not update the Broker software that is running at end-user client workstations.

3.10.2 Software Distribution

File names	Description	Bytes
XWB1_1P11PG.EXE	BDK Self-Installing Executable	2,200,099
XWB1_1P11IG.PDF	Installation Guide	185,092
XWB1_1RM.TXT*	Readme text file	13,915

The size of this file will change in the future as additions are made.

Note: Use Binary mode for .PDF, and .EXE files

Use ASCII mode for .TXT file.

To obtain the updated BDK, use FTP to retrieve the software from one of the following CIO Field Offices' ANONYMOUS.SOFTWARE directories:

CIO FIELD OFFICE	FTP Address
Hines	152.129.1.110 (isc-chicago.va.gov)
Albany	152.127.1.5 (isc-albany.va.gov)
Salt Lake City	152.131.2.1 (isc-slc.va.gov)

3.10.3 Broker-Dependent Components

The following comments apply only to those developing applications with the BDK (programmer workstation software). They are not relevant to server operation.

Warning:

Some components, such as the FileMan Delphi Components, reference the TRPC Broker component. If you use such components for development, be aware that installing a new version of the TRPC Broker component (i.e. a new BDK) may cause incompatibilities in Delphi, resulting in a compile failure of the unit containing the Broker-dependent component and the following compilation error:

Unit <unit1> was compiled with a different version of <unit2>.

Check with the creators of the Broker-dependent component to make sure that, with regards to the version of the BDK you are about to install:

- a. Your current component is compatible, or
- b. You can obtain a new version of the component that is compatible.
- c. You have the source (.pas, .dfm, .dpc, etc.) files available so that the component can be recompiled successfully.

If you are using the FileMan Delphi Components (FMDC), please note that the FMDC source code includes references to RPC Broker Development Kit (BDK) code. When you install a new version of the BDK, you will need to recompile the FMDC.

As of patch FMDC*1.0*1, source code for FMDC is provided, allowing you to recompile FMDC if necessary. For instructions on how to recompile FMDC, please refer to FMDC*1.0*2.

3.10.4 Installation

Server Side

Use the following instructions in installing this server-side RPC Broker patch. Do NOT follow the M Server Installation Instructions in the RPC Broker Installation Guide to install the server portion of this patch.

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
2. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*11'

Client Side

Please follow the instructions in the most recent Broker 1.1 Installation Guide.

3.11 XWB*1.1*15 SEQ #11: Broker Command error fix

Category: Routine

3.11.1 Description

All sites should install this patch.

This patch should correct a problem on Cache sites with the Broker looping with COMMAND errors. This error is caused when the Broker tries to open the TCP port and the port is already open by the broker.

This patch resolves the following NOIS calls:

SPO-0300-51693

MUR-0300-32581

WCO-0300-51724

WRJ-1299-10856

MPI-1299-60581

FTL-0200-51217

BOI-0300-50946

3.11.2 Routines

Routine Summary

The following routine is included in this patch. The second line of this routine now looks like: ;;1.1;RPC BROKER;<patchlist>;Mar 28, 1997

Checksum

Routine	Old	New	2nd Line
XWBTCPL	8934371	9128997	**1,7,9,15**

List of preceding patches: 9

Sites should use CHECK^XTSUMBLD to verify checksums.

Routine Information

Routine Name: XWBTCPL

Routine Checksum:

3.11.3 Installation

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and verify if any XWBTCP routines are running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.
2. Stop the Broker Listener on the server. Check the system status and verify if the XWBTCPL routine is running (i.e., Broker Listener). If it is running, stop it. To stop the Listener, do the following:
 - a. Log into your M server.
 - b. Enter the following at the M prompt:
 - >D STOP^XWBTCP(Listener port) (Typically, the Listener port is 9200)
3. Broker routines are not usually mapped on systems that allow it, so you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. On the KIDS menu, under the 'Installation' menu, use the following option:

- Install Package(s) 'XWB*1.1*15'
 - No Options or Protocols need to be placed out-of-order.
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
 8. Restart the Broker Listener on the Server:
 - Log into your M server
 - Enter the following at the M prompt:
 - >D STRT^XWBTCP(Listener port) (Typically, the Listener port is 9200)

3.11.4 XWB*1.1*10 SEQ #12: RPC Availability

Associated patches:

(v)XWB*1.1*4 must be installed BEFORE `XWB*1.1*10'

(v)XWB*1.1*6 must be installed BEFORE `XWB*1.1*10'

Category: Routine, Data Dictionary

3.11.5 Description

This patch gives greater information about and control of RPCs. Specific new abilities are:

1. Blocking an RPC either locally*, remotely*, or in both contexts by setting a value in the INACTIVE field of the Remote Procedure file. The field can be set either by a package developer and exported by KIDS or by a site manager using FileMan. (Prior to this patch, values in this field had no effect.)
2. Assuring that an RPC is at least a specified version when it is run remotely* by setting a value in the new VERSION field of the Remote Procedure file.
3. Querying a server regarding the status of RPCs by using new Remote Procedures: XWB IS RPC AVAILABLE and XWB ARE RPCS AVAILABLE.

Please see the on-line descriptions of the INACTIVE and VERSION fields in the Remote Procedure file and of the XWB IS RPC AVAILABLE and XWB ARE RPCS AVAILABLE Remote Procedure file entries for details of the use of the new functionality.

In addition, this patch stops M errors from occurring when a client application 1) attempts to create a context that does not exist on the server or 2) attempts to run a remote procedure that does not exist on the server. With this patch in both these situations, the user is shown a specific error message explaining the problem. Several

developers have requested this fix, and the following NOIS calls are resolved:

ISP-0399-N2813 Broker Error When Client Calls Non-Existent RPC
 MWV-1099-20408 Error encountered with XWBBRK
 MWV-0499-21483 broker error since *169
 SLC-1298-50740 NULL SUBSCRIPT ERROR
 TOM-0798-41277 RPC ERRORS
 DES-1296-40252 ERROR AT PRSA+18^XWBBRK
 DAY-1196-42040 Error when PCMM not installed in the environment

*'Locally' means an RPC is being run at the site which the user is logged on to;
 'remotely' means an RPC is being run at a site the user is not directly logged on to.

3.11.6 Notes

1. The packman message containing the XWB*1.1*10 KIDS build installs 3 modified XWB* routines, one modified and one new field in the RemoteProcedure file, and two new RPCs (entries in the Remote Procedure file).
2. There is no client portion of this patch.

3.11.7 Routines

Routine Summary

The following is a list of the routines included in this patch. The second line of each of these routines now looks like: <tab>;;1.1;RPC BROKER;[patch list];date

CHECK^XTSUMBLD results:

Routine Name	Before Patch	After Patch	Patch List
XWBBRK	4567623	5912545	2,4,10
XWBLIB	720789	3253016	6,10
XWBSEC	2113752	2425405	3,6,10

Fields in Remote Procedure file (#8994):

INACTIVE (#.06) is modified

VERSION (#.09) is new

Remote Procedure:

XWB IS RPC AVAILABLE is new

XWB ARE RPCS AVAILABLE is new

Routine Information

Routine Name: XWBLIB

Routine Checksum:

Routine Name: XWBSEC

Routine Checksum:

Routine Name: XWBBRK

Routine Checksum:

3.11.8 Installation

1. Do not run any RPC-Broker-based Client/Server software (e.g., CPRS, PCMM) during the installation. No Broker-based client/server software should be running while installing this patch on the server. To identify these jobs, check the system status and see if any XWBTCPC routine is running (i.e., Broker Handler). Once identified, notify users to logoff or forcex the jobs. Active users may get NOSOURCE or CLOBBER errors.
2. Stop the Broker Listener(s) on the server. Check the system status and see if the XWBTCPL routine is running (i.e., Broker Listener). If it is running stop it. There are several ways to stop the Listeners -- see the current version of the RPC Broker System Manual for details.
3. These routines are not usually mapped on systems that support mapping; so, you will probably not have to disable mapping.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
5. The patch has now been loaded into a Transport global on your system. On the KIDS menu, select the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
6. On the KIDS menu, under the 'Installation' menu, use the following option:
 - Install Package(s) 'XWB*1.1*10'
7. When asked, answer these questions NO:

- Want KIDS to INHIBIT LOGONs during the install? YES// NO
 - Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO
8. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
 9. If the routines were unmapped as part of step 3, the mapped set should be rebuilt once the installation has run to completion.
 10. Restart the Broker Listener on the Server: see the current RPC Broker System Manual for details.

4.0 Capacity Management RUM (KMPR) V 1.0 Patches

4.1 KMPR*1*1 SEQ #1: RUM Update

Category: Informational

4.1.1 Description

This patch is included with patch XU*8.0*122. See patch XU*8.0*122 for detailed instructions.

4.1.2 Routine Information

No routines included

4.2 KMPR*1*2 SEQ #2: RUM for Cache and Enhancements

Category: Informational

4.2.1 Description

See patch XU*8.0*143 for Description and Installation instructions.

4.2.2 Routine Information

No routines included

5.0 SAGG Project (KMPS) V 1.8 Patches

5.1 KMPS*1.8*1 SEQ #1: Collect Disk Capacity Information

Associated patches

(v)XU*8*121 must be installed BEFORE `KMPS*1.8*1'

Category

Routine

5.1.1 Description

This patch is being released by Capacity Management (CM) to allow the Statistical Analysis of Global Growth (SAGG) Version 1.8 software package to collect disk capacity information from the sites.

All DSM, MSM and OpenM-NT sites are instructed to install this patch.

This patch, in conjunction with Kernel patch XU*8*121, will support the collection of disk capacity information from the following operating system platforms: DSM and OpenM-NT.

5.1.2 Routines

Checksum

Routine	Old	New	2nd Line
KMPSGE	21239523	20004053	**1**
KMPSLK	14666984	14824425	**1**
KMPSUTL	17494692	17505897	**1**

Checksums calculated by CHECK^XTSUMBLD

Routine Information

Routine Name: KMPSGE

Routine Checksum:

Routine Name: KMPSLK

Routine Checksum:

Routine Name: KMPSUTL

Routine Checksum:

5.1.3 Installation

Provided that the 'SAGG Master Background Task' [KMPS SAGG REPORT] is not currently running, this installation can be performed at any time of the day with minimal disruption to users. Installation should not take longer than 10-15 minutes.

1. DSM and MSM sites - You will need to disable any routines within the KMPS* namespace.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
4. As this install only affects the SAGG Master Background Task, you do not have to inhibit users from login into the system.
5. On the KIDS menu, under the 'Installation' menu, use the 'Install Package(s)' option and select the package KMPS*1.8*1.
6. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', you can respond with NO.
7. DSM and MSM sites - after the patch has installed, rebuild your map set if necessary. The KMPS* namespaced routines are NOT recommended to be mapped.

5.2 KMPS*1.8*2 SEQ #2: SAGG Enhancements

Associated patches:

(v)KMPS*1.8*1 must be installed BEFORE `KMPS*1.8*2'

(v)KMPS*1.8*1 must be installed BEFORE `KMPS*1.8*2'

Category: Routine

5.2.1 Description

This patch is being released by Capacity Management (CM) to correct the 'Invalid reverse-path specification' transmission error within the Statistical Analysis of Global

Growth (SAGG) Version 1.8 software package. This patch release will also allow the collection routines to run on Cache for OpenVMS platforms.

All DSM, Cache for Windows NT and Cache for OpenVMS sites are instructed to install this patch.

The original 'Status of SAGG Collection Routines' [KMPS SAGG STATUS] option has been renamed as the 'Check SAGG Environment' option. In addition to providing the previous information regarding the SAGG collection routines, this option will now check the status of SAGG patch installation at the site.

The local mail message that is generated when the SAGG background routines complete their collection process has been enhanced to accommodate the expanded volume set names found on the Cache for OpenVMS and Cache for Windows NT platforms. In addition, the local message will recommend that the background job be run over the weekend hours if the job is started during the weekday.

The pre-install routine of this patch will move mail members from the KMPS-SAGG mail group to the KMP-CAPMAN mail group. The KMP-CAPMAN mail-group was created with the release of the Resource Usage Monitor (RUM) package. All SAGG notification messages will start utilizing the KMP-CAPMAN mail group. Any mail groups within the MAIL GROUP file that have KMPS-SAGG as a MEMBER GROUP will have the KMPS-SAGG entry removed.

This patch will remove the KMPS-SAGG mail group from the MAIL GROUP file. The 'Edit KMPS-SAGG Mail Group' [KMPS SAGG MAIL] option will be deleted. Use the 'Capacity Management Mail Group Edit' [KMP MAIL GROUP EDIT] option to change the membership of the mail group that will receive package notification messages.

This patch will now allow SAGG to accept alphanumeric characters within the site number. This problem had effected the MPI facility located in Austin.

This patch will enable the collection of hardware information from sites running DSM. The hardware information will consist of the hardware name (such as Compaq Alpha Server ES40) and the number of active CPU processors installed within each node.

5.2.2 Software Retrieval

The software patch is not being distributed through the National Patch Module. The patch is being distributed as a host file.

Host file name: KMPS1_8_2.KID

This file contains patch KMPS*1.8*2

Sites may retrieve the patch directly using FTP from the

ANONYMOUS.SOFTWARE directory at the following OI Field Offices:

- Albany: ftp.fo-albany.med.va.gov
- Hines: ftp.fo-hines.med.va.gov
- Salt Lake City: ftp.fo-slc.med.va.gov

The following file will be available:

File Name	Description
KMPS1_8_2.KID	Host file containing KIDS software distribution

* NOTE: Use ASCII mode when transferring the .KID file

Test sites include Albany IOFO, Cincinnati, Cleveland, Connecticut HCS, Fayetteville AR, Forum, Maryland HCS, Tomah, Washington and White River.

This patch addresses the following NOISes:

WIC-0301-41553, TOM-1201-41071, WIM-0302-22413, HIN-0602-41061, FAV-0602-71295, CIN-0602-41640, SBY-0602-31773, MOU-0602-32292, TAM-0602-32529, NOL-0702-70404, LAS-0702-60685, WPB-0702-30974, SLC-0702-50997, LEB-0702-21442, CHS-0702-41454, SDC-0702-61500, CMM-0702-N1799, LAH-0702-61988, ATG-0702-32243, COA-0702-22639, and MON-0702-53239.

5.2.3 Routines

Checksum

Routine	Old	New	2nd Line
KMPSENV	n/a	45940	**2**
KMPSGE	20004053	9750122	**1,2**
KMPSLK	14824425	10632243	**1,2**
KMPSPRE	n/a	6696549	**2**
KMPSPST	n/a	1162953	**2**
KMPSUTL	17505897	15926854	**1,2**
KMPSUTL1	n/a	4494004	**1,2**

Note:

KMPSENV is an environment check routine used during patch install.

KMPSPRE is a pre-install routine used during patch install.

KMPSPST is a post-install routine used during patch install.

KMPSUTL1 is a new routine.

Checksums calculated by CHECK^XTSUMBLD

Routine Information

Routine Name: KMPSENV

Routine Checksum:

Routine Name: KMPSGE

Routine Checksum:

Routine Name: KMPSLK

Routine Checksum:

Routine Name: KMPSPRE

Routine Checksum:

Routine Name: KMPSPST

Routine Checksum:

Routine Name: KMPSUTL

Routine Checksum:

Routine Name: KMPSUTL1

Routine Checksum:

5.2.4 Installation

Provided that the 'SAGG Master Background Task' [KMPS SAGG REPORT] is not currently running, this installation can be performed at any time of the day with minimal disruption to users. Installation should not take longer than 10-15 minutes.

1. Review the mail members of the KMPS-SAGG and KMP-CAPMAN mail groups with the FileMan Inquiry option. A pre-install routine will attempt to move mail members from the KMPS-SAGG mail group to the KMP-CAPMAaN mail group. Any mail members that are not automatically moved will need to be entered manually with FileMan into the KMP-CAPMAN mail group after completion of the patch installation process. The patch will delete the KMPS-SAGG mail group during the patch installation process.
2. DSM sites - You will need to disable any routines within the KMPS* namespace.
3. Download the KIDS file KMPS1_8_2.KID from the Anonymous Software directory of either Albany, Hines or the Salt Lake OIFO to the appropriate directory on your system.

4. Use 'Load a Distribution' option on the KIDS 'Installation' menu, and enter: KMPS1_8_2.KID Provide the necessary directory path to the file if needed. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksums in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
5. As this install only affects the SAGG Master Background Task, you do not have to inhibit users from login into the system.
6. On the KIDS menu, under the 'Installation' menu, use the 'Install Package(s)' option and select the package KMPS*1.8*2.
7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', you can respond with NO.
8. DSM sites - after the patch has installed, rebuild your map set if necessary. The KMPS* namespaced routines are NOT recommended to be mapped.
9. Review the contents of the KMP-CAPMAN mail group with the FileMan Inquiry option to ensure that the members of the KMPS-SAGG mail group have been properly copied.

6.0 AVA V 93.2 Patch

6.1 AVA*93.2*15: Support of FileMan22/Kernel Update

Category

Routine

Data Dictionary

6.1.1 Description

<p>Note: Read the entire notes file prior to attempting any installation.</p>
--

This patch is being released in conjunction with the FileMan22/Kernel Update and is installed with that distribution .

This is a special patch for the FileMan22/Kernel Update. Some of the Kernel patches contained in the Update deleted or reset some of the IHS cross-references on the New Person file #200 and the Institution file #4. This routine resets the IHS cross-references. It also restores the trigger and cross references on the .01 field of file 200 used to keep files 3-16-200 in sync. These are restored because some IHS sites may not have done the File 200 Conversion or may have local packages still pointing to files 3 or 16.

This patch is NOT cumulative, so does not contain the previous AVA patches.

6.1.2 Contents of Patch

ava_9320.15k KIDS file

ava_9320.15n Notes file

6.1.3 Requirements

- Kernel V8.0 or later
- FileMan V21 or later
- AVA 93.2

6.1.4 Installation Instructions

This patch is installed by the FileMan22/Kernel Update package.

6.1.5 Routine Information

Routine Name: AVAP15

Description of Changes: New routine used to reset cross references in the New Person #200 file and Institution #4 file.

Routine Checksum:

7.0 A4A7 V 1.01 Patches

7.1 A4A7*1.01*9 SEQ #9: Scan for 3-6-16-20 references

Category: **Routine**

7.1.1 Description

OVERVIEW: This patch is step one in the process of removing Files 3, 6, 16, and 20. It provides the means to examine your site's routines, screens (forms and blocks), templates, and data dictionaries for all references to Files 3, 6, 16, and 20. It next prints a report of all cross references, regular pointers, routines, and templates with pointers that use these files so that you know where the references are that must be removed.

If the report indicates there are routines or DDs that reference these files, a programmer should be consulted to update the pointers. If the report indicates a pointer referenced in a nationally released package, check to see if you have the latest version and patches. If it is the latest and a reference is found, please contact customer service.

In the near future, Files 3/6/16/20 will be removed and only File 200 will remain. A patch will be released soon to perform step two and remove the data dictionaries and the data for Files 3/6/16/20. That patch will also remove any cross references used in File 200 that point to these files.

7.1.2 Patch History

This patch was generated to give the developers and sites one more tool to make a last check to ensure that none of their code or FileMan data points to the files 3/6/16/20. The decision was made years ago to go to a single new file New Person (#200) so that the 4 logically equivalent files would be combined.

7.1.3 Routines

The following is a list of the routines included in this patch. The second line value of each of these routines will look like:

```
<tab>;;1.01;New Person File;**9**;/2/9/96
```

Routine Name	Before Patch	After Patch	Patch List
A4A7B	n/a	19871326	9
A4A7B0	n/a	11784974	9
A4A7B1	n/a	13417104	9

* from CHECK^XTSUMBLD

Environmental Check Routine

None

Routine Information

Routine Name: A4A7B

Routine Checksum:

Routine Name: A4A7B0

Routine Checksum:

Routine Name: A4A7B1

Routine Checksum:

7.1.4 Installation Instructions

How Long?: Installation will take less than 2 minutes.

1. Use the INSTALL/CHECK MESSAGE option on the PackMan and respond YES at the prompt 'Want to Continue with load? YES//' (Press the Return key).
2. Review your Mapped Routine set. If any of the routines listed in the ROUTINE SUMMARY section are mapped on your system, they should be removed from the Mapped set at this time.
3. From the Kernel Installation and Distribution System Menu, select the Installation menu.
4. From the Installation menu, you may elect to use the following options: (when prompted for the install name enter A4A7*1.01*9)
 - a. Back up the Transport Global - This option will create a backup message of any routines exported with this patch. It will NOT back up any other changes such as DDs or templates.
 - b. Verify checksums in the transport global - this option will allow you to ensure the integrity of the routines that are in the Transport Global.
5. Use the Install Package(s) options and select the package:
 - A4A7*1.01*9.
6. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? Yes//', respond NO.

7. MSM sites: Please ensure you answer YES when asked if you want to move the routines to other systems and indicate the appropriate CPUs. Alternatively, you can wait until the installation is complete and move the routines listed in the Routine Summary Section to all systems.
8. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

7.1.5 Implementation

This patch consists of three routines, two of which (A4A7B and A4A7B0) search for references to Files 3/6/16/20 and a third, (A4A7B1), which will print out the results of the most recent search.

This patch contains no templates or options, only the routines. It is designed to be used at the site in programmer mode to allow checking and correcting your site's modifications that may point to the files to be removed.

This is a programmer set of routines intended to be run in IRM by a programmer in programmer mode. To run the utility, D ^A4A7B from programmer mode to scan and D ^A4A7B1 to print the results.

It is suggested that, for Full Database runs, this utility be run during off-peak hours (at night or over a weekend). Estimated Run time is about 4 hours.

The user is first asked whether to run a partial database search (P) or all (A). If "A" is chosen, the user is given the option of queuing it to be run as a background task. (The process of a complete database search can be quite lengthy.) If you chose not to queue the task, it will be done immediately.

Captured Examples Of Use:

```

                                COMPLETE DATABASE SEARCH:
                                -----

>D ^A4A7B
=====

Partial or All (A or P) default A // <return>
=

TASK THE COMPLETE SEARCH? Y/N (CAPS ONLY) // Y
=

Requested Start Time: NOW// <return> (OCT 28, 1996@07:14:05)
=

TASK                88452

-----
P(artial) - PARTIAL DATABASE SEARCH:

```

Figure 7-1:Using A4A7*1.01*9 SEQ #9 screen 1

If you select a partial run, you will be asked what part you wish to do (Data Dictionary, Routines, or Other [templates/forms/blocks]) and then what part, if any, of that choice you wish to further limit. This can be done to a file number, a single letter range of routines, or a family of templates. These partial runs may take as little as 2 to 10 minutes on a lightly loaded machine, hence they are not queueable.

```

-----
Data Dictionary:
-----

>D ^A4A7B
=====

Partial or All (A or P) default A // P
=

Which section? (Data Dictionary (D) Routines (R)
or templates/forms/blocks (O) // D
=

Please enter start and end file numbers in the form (start,end) // 400,500
=====

-----
Routines:
-----

>D ^A4A7B
=====

Partial or All (A or P) default A // P
=

-----
Which section? (Data Dictionary (D) Routines (R)
or templates/forms/blocks (O) // R
=

FOR WHICH SINGLE LETTER RANGE (CAPS ONLY) // L
=

-----
Other:
-----

>D ^A4A7B
=====

Partial or All (A or P) default A // P
=

Which section? (Data Dictionary (D) Routines (R)
-----
or templates/forms/blocks (O) // O
=

SELECT INPUT TEMPLATES (I), SORT TEMPLATES (S), PRINT TEMPLATE (P), FUNCTIONS

```

```

(F), FORMS (A), BLOCKS (B) (CAPS ONLY) // I
=
-----
PRINT:
-----

>D ^A4A7B1
=====

This report could take some time, remember to QUEUE the report

DEVICE: HOME // QUEUE TO PRINT ON
=====
DEVICE:

```

Figure 7-2:Using A4A7*1.01*9 SEQ #9 screen 2

The job is stoppable while in the background by D STOP^A4A7B. If the tasked job is stopped or simply crunched, the job can later be retasked by code D TASK^A4A7B. A search will restart from a safe recovery point. The crunch may be from a OS or MUMPs crash or by simply losing the partition for some reason. The restart capability was designed for full database scans. It is suggested for less than full database scans the scan simply be rerun from the beginning in local mode (not queued) since the run time is short.

When the search run is complete, you will run the print routine D ^A4A7B1 to print the results. The results will be sent to a printer or displayed on the screen. The Global ^Utility("A4A7B", is used to hold the data for this utility.

WARNING: When a new run is started, the old data from the last search is removed from the global (except for recoveries).

The A4A7B* routines are to be deleted after the 3/6/16/20 sterilization routines are run (coming as a separate patch).

Note: the ^UTILITY("A4A7B" global, is not automatically removed upon completion of the runs, but must be removed manually at the time the A4A7B* routines are deleted. The code to be used is K ^UTILITY("A4A7B").

7.2 A4A7*1.01*10 SEQ #10: Fix some non-standard code

Category: Routine, Data Dictionary

7.2.1 Description

WIC-0497-40424 A4A7B Fixed use of non-standard code.

BRX-1197-11294 The DD for file 200 was missing two fields

- "XUS Logon Atempt Count" and
- "XUS Active User"

7.2.2 Routines

Checksums

Routine	Old	New	2nd Line
A4A7B	19871326	19882220	**9,10**

Routine Information

Routine Name: A4A7B

Routine Checksum

7.2.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Users can remain on the system. This patch can be loaded any time.
4. On the KIDS menu, under the 'Installation' menu, use the following option: Install Package(s) 'A4A7*1.01*10'
5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).

7.3 A4A7*1.01*11: 3/6/16/20 Killer Patch

Category: Data Dictionary

7.3.1 Description:

Note: This patch will remove the dd and data for files 3/6/16/20 and the cross references in file 200 that set data into them.

- It also will delete 2 fields from file 49 (SERVICE/SECTION). Fields 7 & 8 (subfiles 49.02 and 49.03) were deleted (DD's and data).
- A reminder to be sure that you have run the A4A7*1.01*9 patch, Routine A4A7B to scan for references to files 3, 6, 16, 20.
- The Scan routine A4A7B can be run after patch A4A7*1.01*11 has been installed/run looking for local references.
- It also adds two fields into the New Person file that had been left out XUS Logon Attempt Count and XUS Active User.

7.3.2 Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like:

```
;;1.01;NEW PERSON;<patchlist>;2/9/96
```

Checksum

Routine	Old	New	2nd Line
A4A7KILL		2767871	**11**

Sites should use CHECK^XTSUMBLD to verify checksums

Routine Information:

Routine Name: A4A7KILL

Routine Checksum:

7.3.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
 - Verify Checksum's in Transport Global
 - Print Transport Global
 - Compare Transport Global to Current System
 - Backup a Transport Global
3. Inhibit users from login into the system. Also, place TASKMAN in a wait state.
4. On the KIDS menu, under the 'Installation' menu, use the following option:

- Install Package(s) 'A4A7*1.01*11'
5. With the user's still off the system:
 - DO K^A4A7KILL

```
Are you sure you want to kill off files 3, 6, 16, 20:? NO// YES
Deleting file 20
Deleting file 6
Deleting file 16
Deleting file 3

... more stuff printed out

DONE
```

6. Enable user's login. Remove TASKMAN from the wait state. You can now delete the A4A7KILL routine.

8.0 Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

Phone: (505) 248-4371 or (888) 830-7280 (toll free)

Fax: (505) 248-4363

Web: <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

Email: support@ihs.gov