RADIOLOGY / NUCLEAR MEDICINE

INSTALLATION GUIDE

Version 5.0

April 1998

Department of Veterans Affairs
Veterans Health Administration
Office of Chief Information Officer

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Installation Information

This package was created using Kernel V. 8.0 and VA FileMan V. 21.0 and requires the following external software:

Package Name	Minimum Required Version
VA FileMan	21.0
Kernel	8.0
MailMan	7.1
PIMS	5.3
Health Level Seven	1.6
Adverse Reaction Tracking	3.0
OE/RR	2.5
PCE	1.0

Pre-installation

1. Coordinate the installation with your ADPAC. There are many enhancements to this version, some requiring up front preparation by the ADPAC before this version is installed. For example, if the nuclear medicine data collection features are going to be used, the ADPAC will have to work with the Pharmacy ADPAC to make sure all radiopharmaceuticals used at the site have been added to the Drug file #50. (See the Radiology/Nuclear Medicine ADPAC Guide, Implementation Check List.)

2. The package will be installed using Kernel Installation and Distribution system (KIDS).

3. Make certain at least patches RA*4.5*2, RA*4.5*10, and DI*21.0*41 are installed **prior** to installing this version of the software. (If this is a virgin installation, you may skip patches RA*4.5*2 and RA*4.5*10.)

4. **If this is a virgin installation, you may skip this step.** Make certain the following entries are among those in the Imaging Type file #79.2:

   Cardiology Studies (Nuc Med)
   Nuclear Medicine

   If they do not exist, try to determine how and why these entries were corrupted and make the necessary corrections. **The environment check routine**

requires the conditions in both steps 3 and 4 in order to run the installation.

5. Schedule downtime with the package and any interface users (e.g., any PACS/ Imaging or voice recognition system users). This installation will put RA namespaced options and protocols out of service for the duration of the installation. Please refer to the Test Site Install Times chart, page 23, for a sampling of installation and cleanup times. The cleanup runs in the background so users can go back on the system while it is running. The cleanup run time depends largely on how many entries are in File #74.4.

6. Six bulletins are exported with this package. These bulletins are generated when an important action happens, such as the deletion of an exam. Consult with the package ADPAC to determine how many Radiology/Nuclear Medicine package related mail groups should exist and what mail group(s) should be associated with each bulletin and who the mail group members should be. If this is not a virgin installation, you may not need to make any changes. For more information on bulletins and mail groups, see page 19 of this manual.

7. Use the Distribution Queue Purge [RA RPTDISTPURGE] option to purge distribution files of printed reports in the Report Distribution Queue file #74.3. This will help to minimize the CPU time needed to run the clean-up programs. The entries in this file are only pointers to the real report records. Sites not using distribution queues may have zero entries in this file. If there are zero entries in File #74.3, skip to step 9.

8. After the purge completes, determine the number of entries in the Report Distribution file #74.4. Using the VA FileMan Inquire option, enter "74.4" at the Output From What File prompt. VA FileMan should display the number of entries in the file. Use an "^" to exit the option. If you have a large number of entries (e.g., >10,000), you may want to use the Rebuild Distribution Queues [RA RPTDISTREBUILD] option and enter a date within the last 45 days. The purpose of this is to reduce the volume of data that must be processed by the clean-up programs.

9. Use the global placement utilities to create and place the new ^RADPTN global.

10. For multiple cpu's the following globals must be translated:

   ^RA
   ^RABTCH
   ^RADPT
   ^RADPTN (new global)
   ^RAMIS
   ^RAO
   ^RARPT

Installation Instructions

This guide can be used to install the package into either a test or production account. The following table indicates which steps are appropriate for the installation. You will probably wish to install the package in your test account first.

Step	Description	Test	Prod
1.	Make sure the Radiology/Nuclear Medicine (or Imaging Service) and voice recognition system users are off the system. Clinicians should stop ordering Rad/Nuc Med procedures during the install.		P
2.	Backup the system.		P
3.	Disable Mapping for RA* routines, if applicable.		P
4.	Disable journalling, if applicable (RA* globals).		P
5.	Stop all tasked jobs in the RA* namespace. Taskman should be up and running during this install.		P
6.	Manually disable the RA SIGN-ON MSG option. This must be done prior to the install to prevent errors during sign-on for other users.		P
7.	Delete old package routines from all your systems (optional). You may wish to delete existing RA namespaced routines. Also, remember not to delete any locally created routines (e.g., RAZ*). Use the routine deletion method you are most comfortable with.	T	P

Example:

```
D ^%RDELETE

ROUTINE DELETE

routine (s) ?  > RA*
routine (s) ?  > -RAZ*  (On Open M, 'RAZ*)
routine (s) ?  > <RET>

nnn routines to DELETE, OK: NO// YES   (On Open M,
you get a Device: prompt)
```

8.	Sign into the account where the package is installed. Make certain your DUZ variable is set to a valid user number and DUZ(0) equals "@". **The environment check routine requires this.** Invoke the KIDS menu (XPD Installation Menu option).	T	P

There are two (2) builds that must be loaded. Only one build needs to be installed - it queues the cleanup.

First, use the Load a Distribution option to load:
RAD5_0CLN.KID
The environment check routine requires this.

Then use the same option to load: **RAD5_0.KID**

Use the Install Package(s) option to install:
RADIOLOGY/NUCLEAR MEDICINE 5.0

This installation assumes TaskMan is running.

Note: The installation example dialogue that follows may vary depending on the system you have (Alpha or Open-M) and the additional work that must be done in the pre- and post- installation process.

See example of an installation over version 4.5, page 8.

9.	If you have not encountered any problems during the installation, users can be allowed back on the system when it is complete. (Check the KIDS Install File Print in the Utilities menu to verify successful completion of this Radiology/Nuclear Medicine V. 5.0 install.)		P
10.	If your site is running the HL7 messaging interface to the VISTA Imaging package, you need to update copies of Radiology/Nuclear Medicine V. 4.5 routines that may exist on the DICOM server and/or Imaging workstations. These routines must also be updated each time they are affected by future patches.		P
11.	The KIDS cleanup install, RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0, will run in the background. It should take less than 36 hours unless your site has	T	P

very large numbers of records in Files #74.4, #70, and #74. Use the KIDS Install File Print option under the Utilities Menu to check on the progress and completion of the cleanup install. If there are errors, you should fix the data problems, then restart the cleanup install through the KIDS Restart Install of Package(s) option.

Post Installation:

Step	Description	Test	Prod
1.	Enable journalling, if applicable. The following globals are recommended for journalling:		P

> ^RA
> ^RABTCH
> ^RADPT
> ^RADPTN (new global)
> ^RAMIS
> ^RAO
> ^RARPT

Step	Description	Test	Prod
2.	If you did not purge all RA* routines prior to the install, you will need to delete RACTTK* and RACTEX* routines.	T	P
3.	Move the Radiology/Nuclear Medicine routines (RA* minus RAI*) onto all your systems, if applicable.		P
4.	Enable routine mapping, if applicable. The following routines are recommended for mapping:		P

RABTCH*	RACNLU	RACT*	RADEM*	RADPA
RAEDCN*	RAEDPT	RAFLH*	RAHL*	RAJAC
RAORD*	RAPROD*	RAPROQ	RAPSET*	RAPTLU
RAREG*	RART*	RASERV	RASTED	RASTEXT*
RASTREQ*	RAUTL*			

Step	Description	Test	Prod
5.	**If this is a virgin installation of this package:**	T	P

- Define at least one division for your site (File #79),
- Assign the RA OVERALL menu to the ADPAC,
- Assign the three RA security keys (RA ALLOC, RA MGR, and RA VERIFY) to the ADPAC,
- Specify devices to print flash cards, jacket labels and

> reports (see Implementation and Maintenance section of the technical manual for more information on how you can do this),
> - Enter a mail group name for each one of the six bulletins (see page 19) exported, and
> - Add the RA OVERALL menu to XUCORE menu.

6.   If your Rad/Nuc Med service wants to print cancelled   T   P
       requests, you will need to enter the devices on which
       they should print. Use the Device Specifications for
       Imaging Locations [RA DEVICE] option under the IRM
       Menu [RA SITEMANAGER].

7.   If your facility is planning to use the   P
       Radiopharmaceutical dosage ticket feature, use the
       Device Specifications for Imaging Locations option to
       enter printers for each nuclear medicine imaging
       location where dosage tickets need to be printed.

8.   Print the install log using the KIDS Install File Print   P
       option and review it with your ADPAC. Some
       adjustments may be needed if the label or report
       printers data could not be resolved, or if any other
       messages indicate a problem.

9.   Further implementation can be done by the package   T   P
       ADPAC using the Implementation Check List in the
       ADPAC guide.

The KIDS Distributions, ^XTMP("XQOO", "RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0") and ^XTMP("XQOO","RADIOLOGY/NUCLEAR MEDICINE 5.0"), occupy approximately 2 megabytes of disk space and are deleted upon successful completion of the installation process.

Use the KIDS Build File Print option if you wish to obtain a complete listing of package components (e.g., routines and options) sent with this Distribution file.

Use the KIDS Install File Print option if you wish to print out the results of the installation process. You will need to retrieve the two install results separately.

A summary of installation times at the test sites can be found on page 23.

Please refer to the Health Level Seven package documentation and the Radiology/Nuclear Medicine Technical manual to set up and maintain

Radiology/Nuclear Medicine interfaces with non-V*IST*A systems (e.g., voice recognition systems and PACS systems).

Note: If you run an XINDEX or %INDEX, you may run into several errors caused by references to routines not in the UCI if the imaging package and/or OE/RR V. 3.0 (CPRS) are not yet installed or released. These errors are benign and do not affect the operation of the Radiology/Nuclear Medicine package. Routines involved are:

MAGRIC   MAGSET3   ORMFN   ORXP   ORERR

There will also be a false warning for RAUTL8. This occurs because XINDEX and %INDEX can't recognize that a second line label is still part of an extrinsic function and is not called separately from the extrinsic function.

Installation Over Version 4.5 (Example)

The following example is taken from an installation on an Open M system. Quotes enclosing messages may not appear on your system and messages may change depending on the data at your facility.

```
D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT320

Select OPTION NAME: EVE          Systems Manager Menu


          Core Applications ...
          Device Management ...
   FM     VA FileMan ...
          Manage Mailman ...
          Menu Management ...
          Programmer Options ...
          Operations Management ...
          Spool Management ...
          System Security ...
          Taskman Management ...
          User Management ...
          Application Utilities ...
          Capacity Management ...
          MailMan Menu ...

Select Systems Manager Menu Option: Programmer Options


   KIDS   Kernel Installation & Distribution System ...
   NTEG   Build an 'NTEG' routine for a package
   PG     Programmer mode
          Calculate and Show Checksum Values
          Delete Unreferenced Options
          Error Processing ...
          Global Block Count
          List Global
          Map Pointer Relations
          Number base changer
          Routine Tools ...
          Test an option not in your menu
          Verifier Tools Menu ...

Select Programmer Options Option: KIDS  Kernel Installation & Distribution
System


          Edits and Distribution ...
          Utilities ...
          Installation ...
```

```
Select Kernel Installation & Distribution System Option: Installation
```

> **Note: You must load the cleanup file (RAD5_0CLN.KID) first. It will be
> queued to run from the Radiology/Nuclear Medicine 5.0 build.**

```
Select Installation Option: Load a Distribution
Enter a Host File: RAD5_0CLN.KID

"KIDS Distribution saved on Sep 30, 1997@11:45:18"
Comment: Rad/Nuc Med Cleanup 5.0

This Distribution contains Transport Globals for the following Package(s):
     RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0

Want to Continue with Load? YES// <RET>
Loading Distribution...

Want to RUN the Environment Check Routine? YES// <RET>
   RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0
"Will first run the Environment Check Routine, RAIENV"


   This build will be queued to run from the RADIOLOGY/NUCLEAR MEDICINE
   5.0 build.  RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0 cannot be run
   independently.
```

> **Note: Although KIDS displays the next message automatically, you should
> ignore it. You will not select the Radiology/Nuclear Medicine Cleanup 5.0
> build to install because it will install automatically after you install
> RAD5_0.KID.**
> **Exception: Should the cleanup not run through to completion, then
> restart the cleanup using the following install name.**

```
Use INSTALL NAME: RADIOLOGY/NUCLEAR MEDICINE CLEANUP 5.0 to install this
Distribution.
```

> **Next, load the RAD5_0.KID file.**

```
Select Installation Option: Load a Distribution
Enter a Host File: RAD5_0.KID

"KIDS Distribution saved on Sep 30, 1997@11:45:18"
Comment: Rad/Nuc Med 5.0

This Distribution contains Transport Globals for the following Package(s):
     RADIOLOGY/NUCLEAR MEDICINE 5.0

Want to Continue with Load? YES// <RET>
Loading Distribution...

Want to RUN the Environment Check Routine? YES// <RET>
   RADIOLOGY/NUCLEAR MEDICINE 5.0
```

```
"Will first run the Environment Check Routine, RAIENVCK"


Use INSTALL NAME: RADIOLOGY/NUCLEAR MEDICINE 5.0 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
```

> **Note:**
> **You may want to run the option Print Transport Global. Among other
> things, it provides a list of options and routines that will be deleted during
> the installation.**
>
> **At this point, you should run the Verify Checksums in Transport Global
> option. If any of the routine checksums fail, you should contact your IRM
> Field Office and not proceed with the installation process.**

```
Select Installation Option: Install Package(s)
Select INSTALL NAME:    RADIOLOGY/NUCLEAR MEDICINE 5.0 Loaded from Distribution
11/5/97@16:50:55


"This Distribution was loaded on Nov 05, 1997@16:50:55 with header of"
"Rad/Nuc Med 5.0;Created on Sep 30, 1997@11:45:18"
It consisted of the following Install(s):
RADIOLOGY/NUCLEAR MEDICINE 5.0

   RADIOLOGY/NUCLEAR MEDICINE 5.0
"Will first run the Environment Check Routine, RAIENVCK"



Install Questions for RADIOLOGY/NUCLEAR MEDICINE 5.0

Incoming Files:


   34       CONTRACT/SHARING AGREEMENTS
Note:  You already have the 'CONTRACT/SHARING AGREEMENTS' File.


   70       RAD/NUC MED PATIENT
Note:  You already have the 'RAD/NUC MED PATIENT' File.
```

```
   70.2       NUC MED EXAM DATA


   71         RAD/NUC MED PROCEDURES  (including data)
Note:  You already have the 'RAD/NUC MED PROCEDURES' File.
Data will NOT be added.


   71.1       MAJOR RAD/NUC MED AMIS CODES  (including data)
Note:  You already have the 'MAJOR RAD/NUC MED AMIS CODES' File.
Data will NOT be added.


   71.2       PROCEDURE MODIFIERS  (including data)
Note:  You already have the 'PROCEDURE MODIFIERS' File.
Data will NOT be added.


   71.3       RAD/NUC MED COMMON PROCEDURE
Note:  You already have the 'RAD/NUC MED COMMON PROCEDURE' File.


   71.4       RAD/NUC MED PROCEDURE MESSAGE
Note:  You already have the 'RAD/NUC MED PROCEDURE MESSAGE' File.


   71.5       IMAGING STOP CODES
Note:  You already have the 'IMAGING STOP CODES' File.


   71.6       ROUTE OF ADMINISTRATION  (including data)


   71.7       SITE OF ADMINISTRATION  (including data)


   71.8       RADIOPHARMACEUTICAL SOURCE


   71.9       RADIOPHARMACEUTICAL LOT


   72         EXAMINATION STATUS  (including data)
Note:  You already have the 'EXAMINATION STATUS' File.
Data will NOT be added.


   74         RAD/NUC MED REPORTS
Note:  You already have the 'RAD/NUC MED REPORTS' File.


   74.1       STANDARD REPORTS
Note:  You already have the 'STANDARD REPORTS' File.


   74.2       REPORT BATCHES
Note:  You already have the 'REPORT BATCHES' File.
```

74.3   REPORT DISTRIBUTION QUEUE (including data)
Note: You already have the 'REPORT DISTRIBUTION QUEUE' File.
I will MERGE your data with mine.

     74.4   REPORT DISTRIBUTION
Note: You already have the 'REPORT DISTRIBUTION' File.

     75.1   RAD/NUC MED ORDERS
Note: You already have the 'RAD/NUC MED ORDERS' File.

     75.2   RAD/NUC MED REASON (including data)
Note: You already have the 'RAD/NUC MED REASON' File.
Data will NOT be added.

     78.1   COMPLICATION TYPES (including data)
Note: You already have the 'COMPLICATION TYPES' File.
Data will NOT be added.

Note: File #78.2 needs to be overwritten because its name has changed; no data will
be affected.

     78.2   LBL/HDR/FTR FORMATS
*BUT YOU ALREADY HAVE 'FLASH CARD FORMATS' AS FILE #78.2!
Shall I write over your FLASH CARD FORMATS File? YES// **<ret>**

     78.3   DIAGNOSTIC CODES (including data)
Note: You already have the 'DIAGNOSTIC CODES' File.
Data will NOT be added.

     78.4   FILM SIZES
Note: You already have the 'FILM SIZES' File.

     78.6   CAMERA/EQUIP/RM
Note: You already have the 'CAMERA/EQUIP/RM' File.

     78.7   LABEL PRINT FIELDS (including data)
Note: You already have the 'LABEL PRINT FIELDS' File.
I will OVERWRITE your data with mine.

     79   RAD/NUC MED DIVISION
Note: You already have the 'RAD/NUC MED DIVISION' File.

     79.1   IMAGING LOCATIONS
Note: You already have the 'IMAGING LOCATIONS' File.

```
   79.2      IMAGING TYPE  (including data)
Note:  You already have the 'IMAGING TYPE' File.
I will MERGE your data with mine.


   101       PROTOCOL  (including data)
Note:  You already have the 'PROTOCOL' File.
Data will NOT be added.


   200       NEW PERSON  (Partial Definition)
Note:  You already have the 'NEW PERSON' File.
```

Answer YES to the following prompt and disable options beginning with RA. It disables all the options and protocols contained in **this** KIDS build.

```
Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//<ret>

Enter options you wish to mark as 'Out Of Order': RA*
```

Since some VA FileMan options are attached to a Rad/Nuc Med Supervisor menu, you **must** deselect them at the next prompt or else they will be locked for the duration of this install and no one at your site will be able to use them.

```
Enter options you wish to mark as 'Out Of Order': -DI*

Enter options you wish to mark as 'Out Of Order': <ret>
```

Enter RA* at the next prompt to disable site created quick order protocols not included in this KIDS build.

```
Enter protocols you wish to mark as 'Out Of Order': RA*

Enter protocols you wish to mark as 'Out Of Order': <ret>

Delay Install (Minutes):  (0-60): 0// <ret>

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// (Spoolfile)
```

Note: TaskMan must be running to successfully complete this installation because the installation queues a data cleanup conversion.

```
PACKAGE: RADIOLOGY/NUCLEAR MEDICINE 5.0     Nov 06, 1997 1:42 pm   PAGE 1
                                             COMPLETED          ELAPSED
-------------------------------------------------------------------------------
```

```
STATUS: Install Completed            DATE LOADED: NOV 05, 1997@16:50:55
INSTALLED BY: SUPPORT,IRM
NATIONAL PACKAGE: RADIOLOGY/NUCLEAR MEDICINE

INSTALL STARTED: NOV 05, 1997@17:21:13      17:27:15          0:06:02


ROUTINES:                                    17:21:59          0:00:46


PRE-INIT CHECK POINTS:
XPD PREINSTALL STARTED                       17:22:02          0:00:03
PREA1                                        17:22:10          0:00:08
PREA2                                        17:22:11          0:00:01
PREA4                                        17:22:11
PREA10                                       17:22:12          0:00:01
PREA11                                       17:22:13          0:00:01
PREB1                                        17:22:13
PREB2                                        17:22:13
PREB3                                        17:22:14          0:00:01
PREB4                                        17:22:15          0:00:01
PREB5                                        17:22:16          0:00:01
PREB7                                        17:22:18          0:00:02
XPD PREINSTALL COMPLETED                     17:22:19          0:00:01


FILES:
CONTRACT/SHARING AGREEMENTS                  17:22:19
RAD/NUC MED PATIENT                          17:22:37          0:00:18
NUC MED EXAM DATA                            17:22:39          0:00:02
RAD/NUC MED PROCEDURES                       17:22:47          0:00:08
MAJOR RAD/NUC MED AMIS CODES                 17:22:48          0:00:01
PROCEDURE MODIFIERS                          17:22:50          0:00:02
RAD/NUC MED COMMON PROCEDURE                 17:22:52          0:00:02
RAD/NUC MED PROCEDURE MESSAGE                17:22:52
IMAGING STOP CODES                           17:22:53          0:00:01
ROUTE OF ADMINISTRATION                      17:22:54          0:00:01
SITE OF ADMINISTRATION                       17:22:55          0:00:01
RADIOPHARMACEUTICAL SOURCE                   17:22:55
RADIOPHARMACEUTICAL LOT                      17:22:56          0:00:01
EXAMINATION STATUS                           17:23:02          0:00:06
RAD/NUC MED REPORTS                          17:23:10          0:00:08
STANDARD REPORTS                             17:23:11          0:00:01
REPORT BATCHES                               17:23:13          0:00:02
REPORT DISTRIBUTION QUEUE                    17:23:15          0:00:02
REPORT DISTRIBUTION                          17:23:16          0:00:01
RAD/NUC MED ORDERS                           17:23:22          0:00:06
RAD/NUC MED REASON                           17:23:23          0:00:01
COMPLICATION TYPES                           17:23:24          0:00:01
LBL/HDR/FTR FORMATS                          17:23:26          0:00:02
DIAGNOSTIC CODES                             17:23:27          0:00:01
FILM SIZES                                   17:23:28          0:00:01
CAMERA/EQUIP/RM                              17:23:29          0:00:01
LABEL PRINT FIELDS                           17:23:30          0:00:01
RAD/NUC MED DIVISION                         17:23:35          0:00:05
IMAGING LOCATIONS                            17:23:38          0:00:03
IMAGING TYPE                                 17:23:40          0:00:02
NEW PERSON                                   17:23:58          0:00:18

BULLETIN                                     17:24:10          0:00:12
SECURITY KEY                                 17:24:12          0:00:02
FUNCTION                                     17:24:12
PRINT TEMPLATE                               17:24:21          0:00:09
SORT TEMPLATE                                17:24:27          0:00:06
INPUT TEMPLATE                               17:24:56          0:00:29
```

```
HL7 APPLICATION PARAMETER                    17:24:56
PROTOCOL                                     17:24:57           0:00:01
OPTION                                       17:26:48           0:01:51


POST-INIT CHECK POINTS:
XPD POSTINSTALL STARTED                      17:26:49           0:00:01
POST1                                        17:26:49
POST2                                        17:26:50           0:00:01
POST3                                        17:26:53           0:00:03
POST31
POST311
POST4                                        17:26:54           0:00:01
POST7                                        17:26:54
POST8                                        17:26:54
POST9                                        17:26:54
POST10                                       17:26:55           0:00:01
POSTCLN                                      17:26:56           0:00:01
POST11                                       17:26:56
POST12                                       17:26:56
XPD POSTINSTALL COMPLETED                    17:26:56


INSTALL QUESTION PROMPT                                            ANSWER


XPF78.2#1   Shall I write over your FLASH CARD FORMATS File        YES
XPZ1   Want to DISABLE Scheduled Options, Menu Options, and Protocols YES
MESSAGES:

  Install Started for RADIOLOGY/NUCLEAR MEDICINE 5.0 :
            Nov 05, 1997@17:21:13


  Installing Routines:
            Nov 05, 1997@17:21:59


  Running Pre-Install Routine: ^RAIPRE
```

Deleting obsolete Stop Codes multiple from Rad/Nuc Med Procedures
data dictionary. Deleting Stop Code data from the Rad/Nuc Med
Procedures file. Please be patient, this may take a while.

Deleting obsolete Principal Clinic field from Imaging Locations data
dictionary. Deleting Principal Clinic data from the Imaging Locations file.

Deleting obsolete Common Procedure Group field from Rad/Nuc Med
Common Procedure data dictionary. Deleting Common Procedure
Group data from the Rad/Nuc Med Common Procedure file.

Deleting obsolete Input Devices multiple from Imaging Locations
data dictionary. Deleting Imaging Devices data from the
Imaging Locations file.

Deleting obsolete Device Assignment Explanation word processing field
from Imaging Type data dictionary. Deleting Device Assignment
Explanation data from the Imaging type file.

Deleting obsolete Allow 'VA' Patient Entry field from Rad/
Nuc Med Division data dictionary. Deleting Allow 'VA'
Patient Entry data from the Rad/Nuc Med Division file.

Deleting obsolete Allow 'NON-VA' Patient Entry field from
Rad/Nuc Med Division data dictionary. Deleting Allow 'NON-
VA' Patient Entry data from the Rad/Nuc Med Division file.

Deleting obsolete Ask 'Requesting Physician' field from

Rad/Nuc Med Division data dictionary. Deleting Ask 'Requ-
esting Physician' data from the Rad/Nuc Med Division file.

Deleting obsolete LAST DFN CONVERTED (75.1) field from
RAD/NUC MED DIVISION data dictionary.
Deleting LAST DFN CONVERTED (75.1) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Deleting obsolete CONVERSION START TIME (75.1) field from
RAD/NUC MED DIVISION data dictionary.
Deleting CONVERSION START TIME (75.1) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Deleting obsolete CONVERSION STOP TIME (75.1) field from
RAD/NUC MED DIVISION data dictionary.
Deleting CONVERSION STOP TIME (75.1) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Deleting obsolete LAST DFN CONVERTED (70) field from
RAD/NUC MED DIVISION data dictionary.
Deleting LAST DFN CONVERTED (70) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Deleting obsolete CONVERSION START TIME (70) field from
RAD/NUC MED DIVISION data dictionary.
Deleting CONVERSION START TIME (70) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Deleting obsolete CONVERSION STOP TIME (70) field from
RAD/NUC MED DIVISION data dictionary.
Deleting CONVERSION STOP TIME (70) data from the
RAD/NUC MED DIVISION file. Division: VAMC, ANYWHERE,IL

Changing name of Label Print Field (file: 78.7)
from: 'RADIOLOGY LOCATION' to 'IMAGING LOCATION'

Un-compiling the `RA STATUS CHANGE' input template on the
Rad/Nuc Med Patient file. All the compiled templates
associated with `RA STATUS CHANGE' will be deleted.

Un-compiling the `RA EXAM EDIT' input template on the
Rad/Nuc Med Patient file. All the compiled templates
associated with `RA EXAM EDIT' will be deleted.

 Installing Data Dictionaries:
            Nov 05, 1997@17:23:58

 Installing Data:
            Nov 05, 1997@17:24:07

 Installing PACKAGE COMPONENTS:

 Installing BULLETIN

 Installing SECURITY KEY

 Installing FUNCTION

 Installing PRINT TEMPLATE

 Installing SORT TEMPLATE

 Installing INPUT TEMPLATE

Installing HL7 APPLICATION PARAMETER

Installing PROTOCOL

Installing OPTION
                Nov 05, 1997@17:26:48

 Running Post-Install Routine: ^RAIPST
Option 'RA SIGN-ON MSG' IS NOW UNDER option 'XU USER SIGN-ON'
Deleting obsolete *CREDIT CLINIC STOP data dictionary and
Descriptor nodes from Major Rad/Nuc Med AMIS Codes file

Converting free-text pointer data in the REQUIRED FLASH CARD PRINTER
field of the Rad/Nuc Med Procedures file to regular pointers to the
Device file.

Converting free-text pointer data for fields:
FLASH CARD PRINTER NAME, JACKET LABEL PRINTER NAME,
REPORT PRINTER NAME and REQUEST PRINTER NAME
in the Imaging Locations file to regular pointers to the Device file.

Converting ALLOW 'RELEASED/UNVERIFIED' data from the Rad/
Nuc Med Division file to the new ALLOW 'RELEASED/UNVERIFIED'.
field on the Imaging Locations file.

Deleting obsolete ALLOW 'RELEASED/UNVERIFIED' field from
Rad/Nuc Med Division file.

Correcting values in the REPORT RIGHT MARGIN field of all entries in the
IMAGING LOCATIONS file.

Add Exam Statuses with an Imaging Type of 'Mammography'.
Exam Statuses created: Cancelled; Waiting For Exam; Called
For Exam; Examined; Transcribed and Complete.

 Updating Routine file...

 The following Routines were created during this install:
     RACTRG
     RACTRG1
     RACTRG10
     RACTRG11
     RACTRG12
     RACTRG13
     RACTRG2
     RACTRG3
     RACTRG4
     RACTRG5
     RACTRG6
     RACTRG7
     RACTRG8
     RACTRG9
     RACTWR
     RACTWR1
     RACTWR2
     RACTWR3

PACKAGE: RADIOLOGY/NUCLEAR MEDICINE 5.0   Nov 06, 1997 1:42 pm   PAGE 2

```
                                        COMPLETED            ELAPSED
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
-----------------


      RACTWR4
      RACTWR5
      RACTVR
      RACTVR1
      RACTVR2
      RACTVR3
      RACTVR4
      RACTOE
      RACTOE1
      RACTOE2
      RACTOE3
      RACTOE4
      RACTOE5
      RACTOE6
      RACTOE7
      RACTOE8
      RACTQE
      RACTQE1
      RACTQE2
      RACTQE3
      RACTQE4
      RACTQE5
      RACTQE6

  Updating KIDS files...

  RADIOLOGY/NUCLEAR MEDICINE 5.0 Installed.
             Nov 05, 1997@17:27:15

  Install Message sent #6331999
```

Mail Groups and Bulletins

This chapter discusses creating mail groups and associating those mail groups to the package's six bulletins. These bulletins are generated when important actions take place (e.g., the deletion of an exam) and are sent to members of a mail group who should be aware that the action took place. The names of the bulletins are:

    RAD/NUC MED REQUEST CANCELLED
    RAD/NUC MED EXAM DELETED
    RAD/NUC MED REPORT DELETION
    RAD/NUC MED REPORT UNVERIFIED
    RAD/NUC MED CREDIT FAILURE
    RAD/NUC MED REQUEST HELD

To find out what mail groups are associated with these bulletins and who belongs to those mail groups, you can do a VA FileMan sort and print. The following is an example of a sort and print that can be run before or after the installation of this new version.

```
D Q^DI

VA FileMan 21.0

Select OPTION: 2  PRINT FILE ENTRIES

OUTPUT FROM WHAT FILE: BULLETIN// <RET>
SORT BY: NAME// <RET>
START WITH NAME: FIRST// RA<RET>
GO TO NAME: LAST// RADZ<RET>
   WITHIN NAME, SORT BY: <RET>
FIRST PRINT FIELD: .01<RET>  NAME
THEN PRINT FIELD: 4<RET>  MAIL GROUP     (multiple)
  THEN PRINT MAIL GROUP SUB-FIELD: .01<RET>  MAIL GROUP
  THEN PRINT MAIL GROUP SUB FIELD: MAIL GROUP:MEMBER<RET>
  THEN PRINT MAIL GROUP SUB FIELD: <RET>
THEN PRINT FIELD: <RET>

  *****************************
Heading (S/C): BULLETIN LIST// <RET>
START AT PAGE: 1// <RET>
DEVICE: (printer name) <RET>     RIGHT MARGIN:  80// <RET>
```

Consult with the package ADPAC to determine how many mail groups to create, what mail group(s) you wish to associate with each bulletin, and who should be the coordinator for each mail group.

The following are suggestions for setting up six mail groups, one for each bulletin.

1) Bulletin Name: RAD/NUC MED REQUEST CANCELLED

Mail Group (#3.8) field name	Suggested value
NAME	RA REQUEST CANCELLED
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when a Radiology/Nuclear Medicine request is cancelled.

2) Bulletin Name: RAD/NUC MED EXAM DELETED

Mail Group (#3.8) field name	Suggested value
NAME	RA EXAM DELETED
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when a Radiology/Nuclear Medicine exam is deleted

3) Bulletin Name: RAD/NUC MED REPORT DELETION

Mail Group (#3.8) field name	Suggested value
NAME	RA REPORT DELETION
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when a Radiology/Nuclear Medicine report is deleted.

4) Bulletin Name: RAD/NUC MED REPORT UNVERIFIED

Mail Group (#3.8) field name	Suggested value
NAME	RA REPORT UNVERIFIED
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when a Radiology/Nuclear Medicine report is changed from Verified to any other status.

5) Bulletin Name: RAD/NUC MED REQUEST HELD

Mail Group (#3.8) field name	Suggested value
NAME	RA REQUEST HELD
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when a Radiology/Nuclear Medicine request is placed on a status of Hold.

6) Bulletin Name: RAD/NUC MED CREDIT FAILURE

Mail Group (#3.8) field name	Suggested value
NAME	RA CREDIT FAILURE
TYPE	Public
RESTRICTIONS	Unrestricted
DESCRIPTION	The members of this mail group will receive a bulletin when an exam has not been credited properly.

The following is an example of creating a mail group.

```
D Q^DI

VA FileMan 21.0

Select OPTION: 1  ENTER OR EDIT FILE ENTRIES

INPUT TO WHAT FILE: MAIL GROUP// <RET>

EDIT WHICH FIELD: ALL// <RET>


Select MAIL GROUP NAME: RA CREDIT FAILURE
  Are you adding 'RA CREDIT FAILURE' as
    a new MAIL GROUP (the nnTH)?  YES
    MAIL GROUP COORDINATOR: Mail Group Coordinator          FT
Select MEMBER: Mail Group Member          NS
  Are you adding 'Mail Group Member' as a new MEMBER (the 1ST for this MAIL
GROUP)?  YES
Select MEMBER: <RET>
DESCRIPTION:
 1>The members of this mail group will receive a bulletin when an
 2>exam has not been credited properly.
 3><RET>
EDIT Option: <RET>
TYPE: public
ORGANIZER: Public Mail Group Organizer
COORDINATOR: Public Mail Group Coordiaton
SELECT AUTHORIZED SENDER: <RET>
ALLOW SELF ENROLLMENT?: NO
REFERENCE COUNT: <RET>
LAST REFERENCED: <RET>
RESTRICTIONS: 0<RET>UNRESTRICTED
Select MEMBER GROUP NAME: <RET>
Select REMOTE MEMBERS: <RET>
Select DISTRIBUTION LIST: <RET>
```

```
Select MAIL GROUP NAME: <RET>
```

The following is an example of associating a mail group with a bulletin.

D Q^DI

```
VA FileMan 21.0

Select OPTION: 1  ENTER OR EDIT FILE ENTRIES

INPUT TO WHAT FILE: BULLETIN// <RET>
EDIT WHICH FIELD: ALL// 4<RET>    (multiple)
    EDIT WHICH MAIL GROUP SUB-FIELD: ALL// <RET>
THEN EDIT FIELD: <RET>

Select BULLETIN NAME: RAD/NUC MED CREDIT FAILURE
Select MAIL GROUP: RA CREDIT FAILURE
  Are you adding 'RA CREDIT FAILURE' as
    a new MAIL GROUP (the 1st for this BULLETIN)?  YES
Select MAIL GROUP: <RET>

Select BULLETIN NAME: <RET>
```

Test Site Install Times

Install Times from Test Sites

Type of System	File	#of Entries	Radiology/Nuclear Medicine 5.0 Install Time (HH:MM)	Radiology/Nuclear Medicine Cleanup 5.0 Install Time (HH:MM)
Alpha (site 1)	70	59,500		
	74	369,000		
	74.4	30,800		
Total			**00:08**	**22:35**
Alpha (site 2)	70	74,515		
	74	546,600		
	74.4	235,813		
Total			**00:04**	**15:09**
Alpha (site 3)	70	39,920		
	74	363,442		
	74.4	252		
Total			**00:03**	**2:04**
Alpha (site 4)	70	97,066		
	74	519,576		
	74.4	0		
Total			**00:03**	**00:06**
Open M (site 1)	70	20,700		
	74	189,200		
	74.4	4,000		
Total			**00:01**	**00:30**
Open M (site 2)	70	14,890		
	74	79,860		
	74.4	0		
Total			**00:01**	**00:24**