Patch Module

Release Notes
&
Installation Guide

PATCH MODULE RELEASE NOTES & INSTALLATION GUIDE

T A B L E   O F   C O N T E N T S

==

ENHANCEMENTS & CHANGES (for Developers)

Patch priority limited to either EMERGENCY or MANDATORY.

Patch category expanded to include enhancement, patch for a patch.

Network mail input of routines and/or text description for a patch.

A new DHCP message file #11005.1 to hold routines and message data.

A new option, Create a PackMan Message, from the local FORUM directory.

Patch numbers are always incremented when adding a patch.

A flag when entering a routine name to warn that the routine has previous patches.

A new multiple field to list associated patches, when appropriate.

A flag to force sequential verification/release of associated patches.

A flag to hold verification/release until a certain date.

A field to enter routine checksum values.

A new option, Forward a Completed/Unverified Patch Message.

Network mail distribution of completed/unverified patch messages to verifiers.

The completed/unverified patch bulletin will show network recipients of the patch message, the FORUM patch message number, and the category - patch for a patch.

ENHANCEMENTS & CHANGES (for Verifiers)

A new option, Forward a Completed/Unverified Patch Message.

Network mail distribution of completed/unverified patch messages to verifiers.

The completed/unverified patch bulletin will show network recipients of the patch message, the FORUM patch message number, and the category - patch for a patch.

A new option, Completed Patch Summary for Assigned Packages. This report will include routines, associated patches, and hold date.

A flag to warn the routines in a patch have previous patches.

A flag to prevent verification/release by date.

A flag to force sequential verification/release of associated patches.

A sequential release number will be generated on verification and included in the patch message for patch management. The SEQ # will appear in the verified patch message subject next to the patch designation.
NOTE: The post-init of the package installation will generate SEQ #s by date for all verified patches for the last two versions of each package in the system. SEQ #s will also be generated for a package database version.

ENHANCEMENTS & CHANGES (for IRM/Support Personnel)

Network mail distribution of verified patch messages to G.SUPPORT@ISCS defined in the A1AE package of the Patch Module.

The verified patch bulletin will show network recipients of the patch message, the FORUM patch message number, and category - patch for a patch.

A sequential release number will be generated on verification and included in the patch message for patch management. The SEQ # will appear in the verified patch message subject next to the patch designation.
NOTE: The post-init of the package installation will generate SEQ #s by date for all verified patches for the last two versions of each package in the system. SEQ #s will also be generated for a package database version.
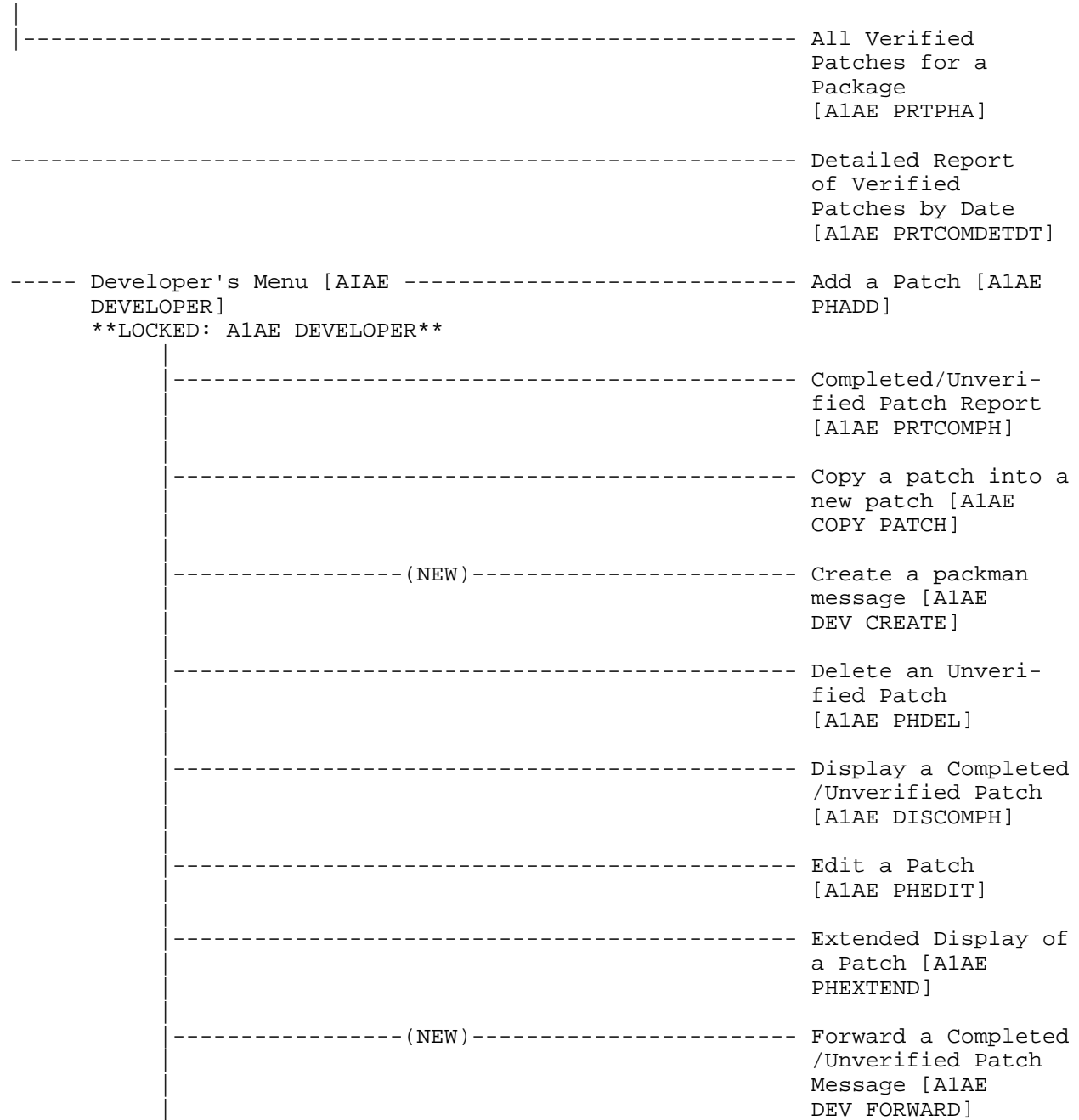
A new option, Forward a Verified Patch Message.

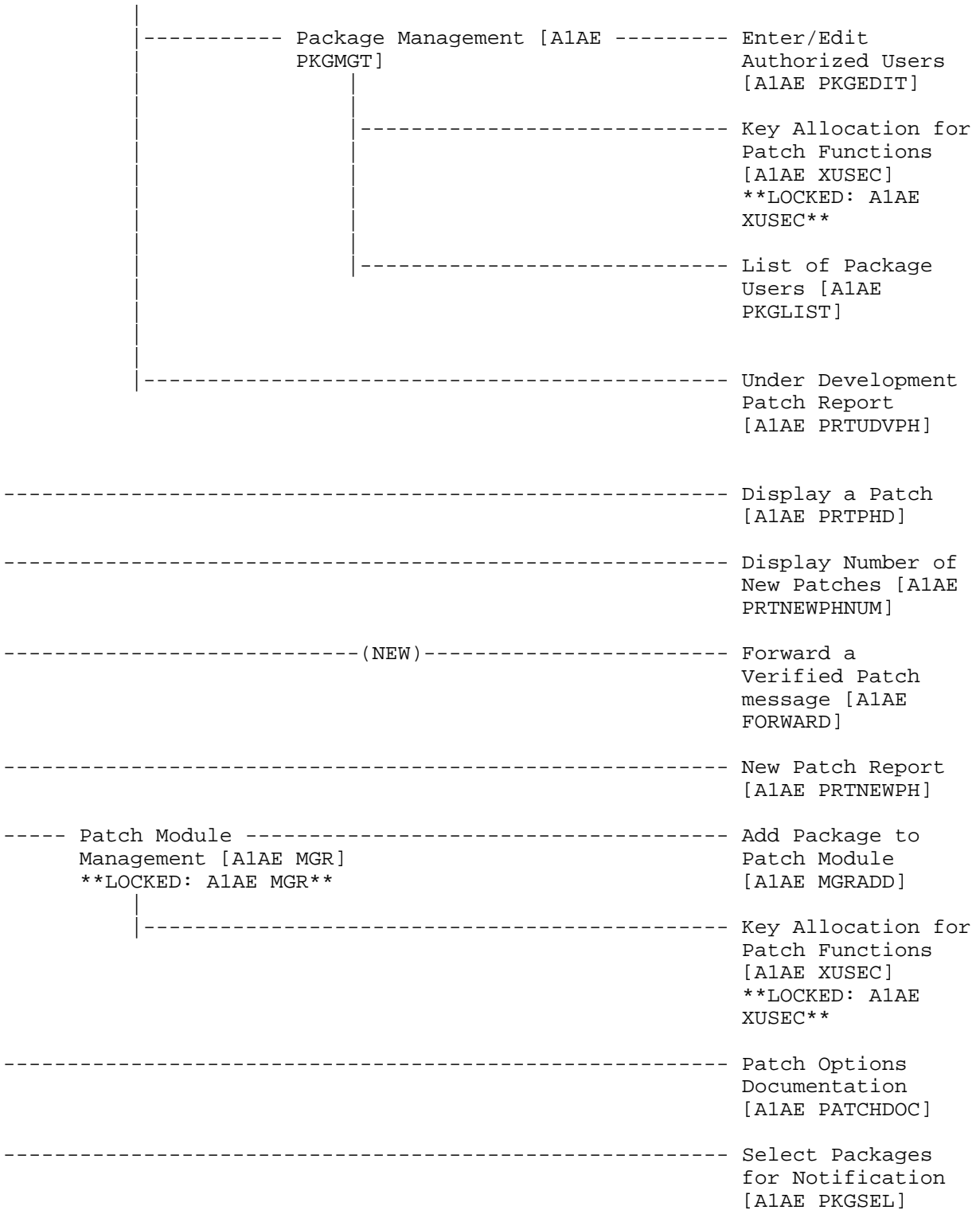The option, Summary Report of All Patches for a Package, will include routines, associated patches, and hold date.

The option, Verified Patch Summary Report by Date, will include associated patch(s) and hold date.
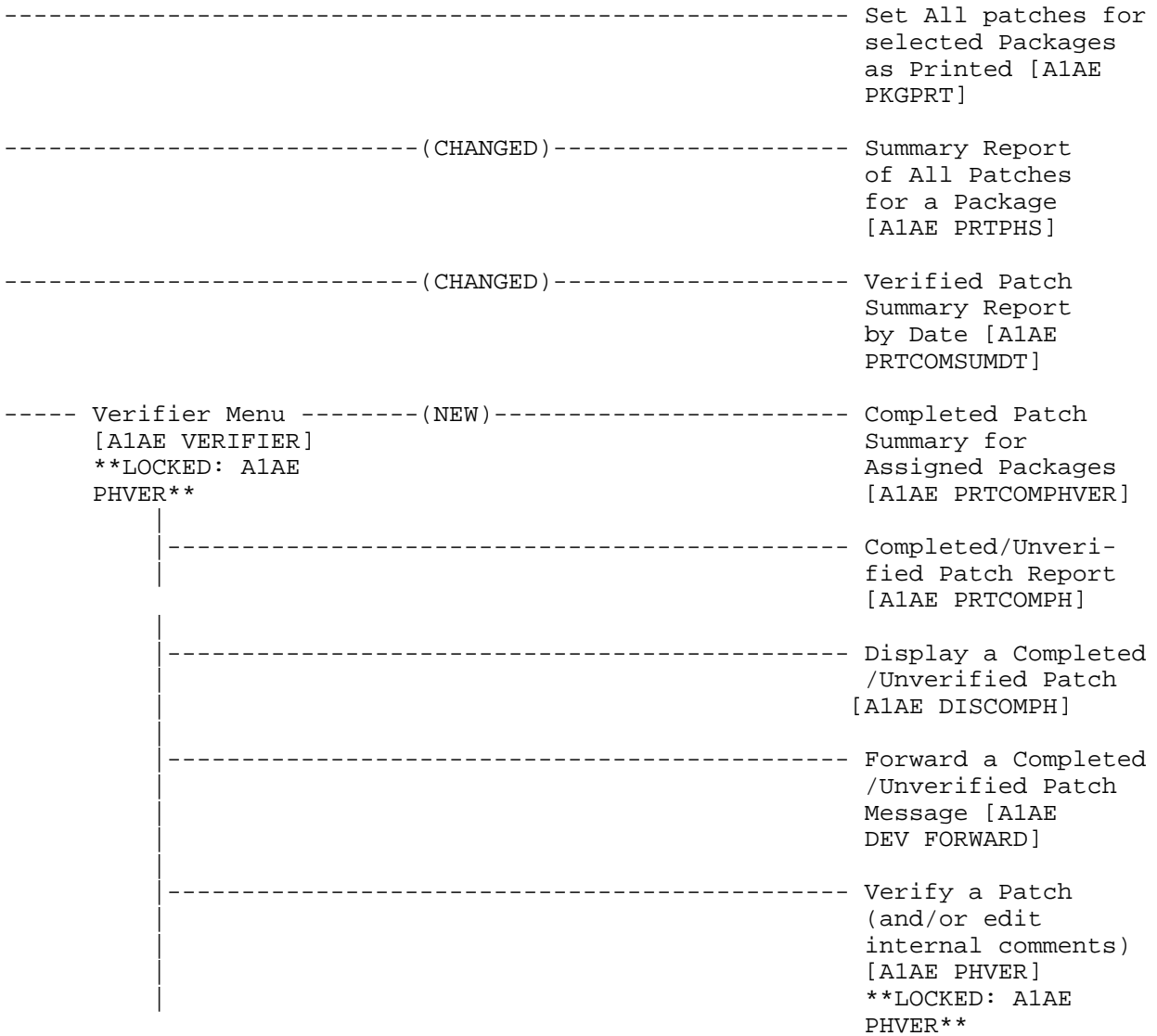
MENU DIAGRAM

```
Patch User Menu (A1AE USER)
|
|------------------------------------------------------- All Verified
                                                         Patches for a
                                                         Package
                                                         [A1AE PRTPHA]


------------------------------------------------------- Detailed Report
                                                         of Verified
                                                         Patches by Date
                                                         [A1AE PRTCOMDETDT]


----- Developer's Menu [AIAE -------------------------- Add a Patch [A1AE
      DEVELOPER]                                          PHADD]
      **LOCKED: A1AE DEVELOPER**
              |
              |--------------------------------------- Completed/Unveri-
              |                                         fied Patch Report
              |                                         [A1AE PRTCOMPH]
              |
              |--------------------------------------- Copy a patch into a
              |                                         new patch [A1AE
              |                                         COPY PATCH]
              |
              |----------------(NEW)------------------ Create a packman
              |                                         message [A1AE
              |                                         DEV CREATE]
              |
              |--------------------------------------- Delete an Unveri-
              |                                         fied Patch
              |                                         [A1AE PHDEL]
              |
              |--------------------------------------- Display a Completed
              |                                         /Unverified Patch
              |                                         [A1AE DISCOMPH]
              |
              |--------------------------------------- Edit a Patch
              |                                         [A1AE PHEDIT]
              |
              |--------------------------------------- Extended Display of
              |                                         a Patch [A1AE
              |                                         PHEXTEND]
              |
              |----------------(NEW)------------------ Forward a Completed
              |                                         /Unverified Patch
              |                                         Message [A1AE
              |                                         DEV FORWARD]
```

MENU DIAGRAM

```
|
|---------- Package Management [A1AE --------- Enter/Edit
|               PKGMGT]                        Authorized Users
|                   |                          [A1AE PKGEDIT]
|                   |
|                   |------------------------- Key Allocation for
|                   |                          Patch Functions
|                   |                          [A1AE XUSEC]
|                   |                          **LOCKED: A1AE
|                   |                          XUSEC**
|                   |
|                   |------------------------- List of Package
|                                              Users [A1AE
|                                              PKGLIST]
|
|
|--------------------------------------------- Under Development
                                               Patch Report
                                               [A1AE PRTUDVPH]


------------------------------------------------ Display a Patch
                                                 [A1AE PRTPHD]

------------------------------------------------ Display Number of
                                                 New Patches [A1AE
                                                 PRTNEWPHNUM]

-------------------------(NEW)------------------- Forward a
                                                 Verified Patch
                                                 message [A1AE
                                                 FORWARD]

------------------------------------------------ New Patch Report
                                                 [A1AE PRTNEWPH]

----- Patch Module ------------------------------ Add Package to
      Management [A1AE MGR]                       Patch Module
      **LOCKED: A1AE MGR**                        [A1AE MGRADD]
          |
          |------------------------------------- Key Allocation for
                                                 Patch Functions
                                                 [A1AE XUSEC]
                                                 **LOCKED: A1AE
                                                 XUSEC**

------------------------------------------------ Patch Options
                                                 Documentation
                                                 [A1AE PATCHDOC]

------------------------------------------------ Select Packages
                                                 for Notification
                                                 [A1AE PKGSEL]
```

MENU DIAGRAM

```
-------------------------------------------------- Set All patches for
                                                   selected Packages
                                                   as Printed [A1AE
                                                   PKGPRT]

-------------------------(CHANGED)----------------- Summary Report
                                                   of All Patches
                                                   for a Package
                                                   [A1AE PRTPHS]

-------------------------(CHANGED)----------------- Verified Patch
                                                   Summary Report
                                                   by Date [A1AE
                                                   PRTCOMSUMDT]

----- Verifier Menu --------(NEW)----------------- Completed Patch
      [A1AE VERIFIER]                              Summary for
      **LOCKED: A1AE                               Assigned Packages
      PHVER**                                      [A1AE PRTCOMPHVER]
         |
         |---------------------------------------- Completed/Unveri-
         |                                         fied Patch Report
         |                                         [A1AE PRTCOMPH]
         |
         |---------------------------------------- Display a Completed
         |                                         /Unverified Patch
         |                                         [A1AE DISCOMPH]
         |
         |---------------------------------------- Forward a Completed
         |                                         /Unverified Patch
         |                                         Message [A1AE
         |                                         DEV FORWARD]
         |
         |---------------------------------------- Verify a Patch
         |                                         (and/or edit
         |                                         internal comments)
         |                                         [A1AE PHVER]
         |                                         **LOCKED: A1AE
         |                                         PHVER**
```

POST INSTALLATION SETUP REQUIRED FOR EACH PACKAGE (ON FORUM)

1. Enable patch description copy question if you want it.
2. Add domains for each package verifier.
3. OPTIONAL - Setup test users if the Patch Module is to be used for a test site package.
                NOTE: A test site package does not require verification of patches.


```
Select Developers Menu Option:    Package Management Option
select Package Management Option: Enter/Edit Authorized users

Select the Package:               RT

USER SELECTION PERMITTED:         no change
* PERMIT DEVELOPER TO COMPLETE:   no change
FOR TEST SITE ONLY?:              no change

(1) Ask Patch Description Copy: NO// Say YES if you want the option to copy
                                     the patch description from the input
                                     PackMan text when editing a patch.
-----------------------------------------------------------------------------

Select SUPPORT PERSONNEL: HARVEY,JULIE//
    SUPPORT PERSONNEL: HARVEY,JULIE//
     VERIFY PERSONNEL: VERIFIER//

(2) VERIFIER'S DOMAIN: VER.ISC-ALBANY.VA.GOV// For each verifier, add a sub-
                                     domain where completed/
                                     unverified patch messages are
                                     sent.


OPTIONAL
Select the Package: DVBZ
   'This package is considered a TEST SITE PACKAGE in the Patch Module'

-----------------------------------------------------------------------------
* PERMIT DEVELOPER TO COMPLETE:   no change
FOR TEST SITE ONLY: YES//          no change
ASK PATCH DESCRIPTION COPY:       no change
-----------------------------------------------------------------------------
Select SELECTED USERS FOR PACKAGE: JONES,JOHN
  SELECTED USERS FOR PACKAGE: JONES,JOHN

(3) TEST SITE DOMAIN: KANSAS-CITY.VA.GOV  For each TEST SITE USER for the
                                     package, enter the domain where a
                                     message containing the completed/
                                     unverified test version patch
                                     should be sent.
```

LOCAL ISC DEVELOPMENT SYSTEM SETUP AND PROCEDURES

1. In the Development System sub-domain, add a DOMAIN file entry "Q-Patch.va.gov" with relay domain to the parent domain "ISC-XXXX".
2. In the parent ISC-XXXX domain, add a DOMAIN file entry "Q-Patch.va.gov" with relay domain FORUM.

```
domain: COR.ISC-ALBANY.VA.GOV
        =====================
OUTPUT FROM WHAT FILE: DOMAIN//
Select DOMAIN NAME: Q-PATCH.VA.GOV

NAME: Q-PATCH.VA.GOV                    RELAY DOMAIN: ISC-ALBANY.VA.GOV

domain: ISC-ALBANY.VA.GOV
        =================
Select DOMAIN NAME: Q-PATCH.VA.GOV

NAME: Q-PATCH.VA.GOV                    RELAY DOMAIN: FORUM
```

PROCEDURE TO SEND A PACKMAN MESSAGE FOR INPUT TO THE PATCH MODULE

1. Create the PackMan message.

   Subject : Namespace*version[*patch number and text]
   Recipient: XXX@Q-PATCH.VA.GOV
       or
   Recipient: yourname@Q-PATCH.VA.GOV

2. Include all routines to be included in the patch under development. The version line of the routine(s) will be updated to the correct patch number by the patch system; however, any previous patches should be included in the input.

3. Optional text can be included in the text portion of the message if you want to prepare patch text description locally and then just copy it at FORUM.

4. THE SUBJECT NAMESPACE CONVENTION is critical. You will only be able to see and use messages with subject: "namespace*version" when editing a patch. The Q-Patch will act as a package, version specific shared mail-box for the package developers in the patch system.

ADD A PATCH

This function permits authorized developers to add a new patch to a specific version of a package. Patches are unique by their designation and have the following format: package namespace*
version number*system assigned patch number. When the patch is added, the system assigns it a patch status of "'under development". A developer other than the one entering the patch must review the patch and change the status to "completed/unverified" using the Edit a Patch option.

```
Select PACKAGE: RT    RECORD TRACKING      RT
Select VERSION: 1// <RET>    Date Verified: 04-14-92
  ARE YOU ADDING 'RT*2*3' AS A NEW DHCP PATCHES (THE 3RD)? yes
DHCP PATCHES PATCH SUBJECT: wrap

Patch Added: RT*2*3

PATCH SUBJECT: wrap// <RET>
PRIORITY: m   MANDATORY
HOLDING DATE: <RET>
Select CATEGORY OF PATCH: r   (ROUTINE)
Select CATEGORY OF PATCH: <RET>
```

The PATCH SUBJECT field has two cross-references that can be used for look-up; a regular cross-reference and key word in context cross reference. If you do not want this patch verified/installed until a certain date, enter that date at the HOLDING DATE prompt. The priorities are "E"mergency (must be installed within one working day of receipt) or "M"andatory (must be installed within five days of receipt). CATEGORY OF PATCH is a multiple field.

ADD A PATCH

```
Do you want to copy lines from a message into the Patch
Description? No// yes
  (1) RT*2*1            JONES,JENNY        APR 14,1992
  (2) RT*2*TESTMESSAGE  JONES,JENNY        MAY 8, 1992

Select Message to copy: 2// <RET>
  Copy from line: 1
  Copy through line: 1// 3

1>If a user enters an '^' at the select patient prompt, an error
2><UNDEF> will occur. This patch will disable the use of '^' at
3>this prompt.

Do you want to copy this line? NO// yes
PATCH DESCRIPTION:
1>$TXT Created by JONES,JENNY at ISC-ALBANY.VA.GOV on FRIDAY,
05/08/92 AT 13:47
EDIT Option: <RET>
```

The first prompt in the above screen will only appear if the ASK PATCH
DESCRIPTION COPY parameter is set to YES for the selected package (through the
Add Package to Patch Module option). The system will check messages in the queue
with subject starting with "package namespace*version" and will copy the selected lines
of the text portion of the selected PackMan message. The option provides the ability to
add/edit the patch description.

ADD A PATCH

```
Select ROUTINE NAME: RTQ2

 editing DESCRIPTION OF ROUTINE CHANGES

Copy routine lines from the routine directory into the description?
No// <RET>

Copy routine lines from a PackMan message into the description?
No// yes

Copy from line: XQ
Copy through line: XQ// <RET>

1> XQ K RTBLD,RTTYR,RTBKGRD,RTPAR,RTSD,RT,RTSEL,A,Z,L,L1,I,RTINST,
RTDIV,RTPULL,RTPN,RTTY,RTTYP,RTAPL,RTQ,RTY,RTS,RTQDT,RTB,RTPLTY,
RTE D CLOSE^RTUTL Q

Do you want to copy this line? No// yes


 ..
DESCRIPTION OF ROUTINE CHANGES:
1> XQ K RTBLD,RTTYR,RTBKGRD,RTPAR,RTSD,RT,RTSEL,A,Z,L,L1,I,RTINST,
RTDIV,RTPULL,RTPN,RTTY,RTTYP,RTAPL,RTQ,RTY,RTS,RTQDT,RTB,RTPLTY,
RTE D CLOSE^RTUTL Q
EDIT Option:
  ROUTINE CHECKSUM:
  1>5463243
  2><RET>
EDIT Option: <RET>
Select ROUTINE NAME: <RET>
```

If a programming change has been made to a routine, enter the name of the routine. Each routine in the patch must be entered as a separate entry in the routine multiple. THIS IS MANDATORY. If the routine can be found in the routine directory on FORUM, you will be prompted to copy routine lines into the routine description. Enter the line tag or line tag plus offset. You will usually copy the modified line out of the PackMan message into the routine description. At the ROUTINE CHECKSUM prompt, you should enter the value obtained from running CHECK^XTSUMBLD.

ADD A PATCH

```
                    editing MESSAGE TEXT

Do you want to copy 'RT*2*TESTMESSAGE' into the Message Text?
No// yes
    Using message 'RT*1'  Checking the input ..  Deleting old text ..
         Adding  <<= NOT VERIFIED > to the first line
            line (6)  ;;v 1.0;Record Tracking;**3**;6/22/92


         MESSAGE TEXT:...

29> G ^RTSM
30> ;
31>7 ;;Management Reports Menu
32> G ^RTRPT
33> ;
34>8 ;;MAS Specific Setup Menu
35> G ^RTMAS
36> ;
37>$END ROU RT
EDIT Option: <RET>
```

You may choose to copy the routine portion of the PackMan message into your patch. If
a PackMan message was selected previously, that message subject will be displayed in
the first prompt shown on this screen; otherwise, you may select the PackMan message
here. "NOT VERIFIED" is added to the first line of the routines and is subsequently
removed when the patch is verified. When the routines are copied into the message text,
the patch number is added to the version line of the routines. For routine patches, the
input PackMan message must contain all the routines in the patch, and they must be
copied into the message text. The message text becomes the installable PackMan
routines portion of the released patch message.

ADD A PATCH

```
 editing comments only seen by verifiers/developers
 INTERNAL COMMENTS:
  1> Test verify
  2> <RET>
 EDIT Option: <RET>
 Select PATCH RELEASE CHECK: RT*2*1   WRAPAROUND   UNDER DEVE PKE
   ARE YOU ADDING 'RT*1*1' AS A NEW PATCH RELEASE CHECK (THE 1ST FOR
 THIS DHCP PATCHES? y  (YES)
   PATCH RELEASE CHECK REQUIRED FOR VERIFICATION: YES
  REQUIRED FOR VERIFICATION: YES// <RET>

 STATUS OF PATCH: UNDER DEVELOPMENT// <RET>
```

The new INTERNAL COMMENTS field has been established as a means for the developer and verifier to exchange comments between themselves. If another patch must be verified/installed with this patch, enter that patch at the Select PATCH RELEASE CHECK prompt. If you use the routine name for lookup make sure the correct patch is selected as routines may appear in more than one patch. This is a multiple field and patches entered may be from the same package or different packages. Enter YES at the PATCH RELEASE CHECK REQUIRED FOR VERIFICATION prompt if the patch you entered in the PATCH RELEASE CHECK field must be verified/installed prior to verification/installation of the patch you are adding. Enter NO to allow concurrent verification/installation of the patches.

ADD PACKAGE TO PATCH MODULE

This option allows users to add packages to the DHCP PATCH/PROBLEM PACKAGE file (#11007). Only holders of security key A1AE MGR may access this option. The following is an explanation of most of the fields and how they should be answered when initially adding a package. An example of what may appear on the screen when utilizing the option appears on the next page.

DHCP PATCH/PROBLEM PACKAGE USER SELECTION PERMITTED
Set this parameter to NO.

USER SELECTION PERMITTED: NO//
Accept the default at this parameter until the package is added; then go back and enter YES. This will cause a mail bulletin to be sent on FORUM to three large mail groups informing them the package is now available in the Patch Module. Make sure the SHORT DESCRIPTION field in the PACKAGE file (#9.4) is filled in as text for the bulletin.

*PERMIT DEVELOPER TO COMPLETE: YES//
Accept the default of YES at this prompt.

FOR TEST SITE ONLY: NO//
Enter NO if patches for this package are for all sites. Enter YES if they are for test sites only.

ASK PATCH DESCRIPTION COPY
If set to YES, user will be asked "Do you want to copy lines from a message into the Patch Description?" when adding or editing a patch.

Select SUPPORT PERSONNEL
Enter the verifiers assigned to this package. This is a multiple field.

VERIFY PERSONNEL
This field should always be set to V (Verifier) as the support personnel entered at the previous prompt should always be verifiers.

ADD PACKAGE TO PATCH MODULE

VERIFIER'S DOMAIN
This field identifies the verifier's network mail domain for sending patch messages to the
verifier.
The entry must contain a valid domain and have the format: [subdomain.]DOMAIN.

Select DEVELOPMENT PERSONNEL
Enter assigned developers for the selected package. This is a multiple field.
Development personnel may enter/edit authorized users in the DHCP AUTHORIZED USER file
for those packages for which they are assigned developers.

```
 Select PACKAGE: A1BN   INCOME DATA COLLECTION
 ARE YOU ADDING 'AIBN INCOME DATE COLLECTION' AS A NEW DHCP PATCH/PROBLEM
 PACKAGE (THE 9TH)? YES
 DHCP PATCH/PROBLEM PACKAGE USER SELECTION PERMITTED: NO
 -----------------------------------------------------------------------
 USER SELECTION PERMITTED: NO// <RET>
 *PERMIT DEVELOPER TO COMPLETE: YES// <RET>
 FOR TEST SITE ONLY?: NO// <RET>
 ASK PATCH DESCRIPTION COPY: YES
 -----------------------------------------------------------------------
 Select SUPPORT PERSONNEL: CHANDLER,DUSTY
 VERIFY PERSONNEL: V   VERIFIER
 VERIFIER'S DOMAIN: VER.ISC-ALBANY
 Select SUPPORT PERSONNEL: <RET>
 -----------------------------------------------------------------------
 Select DEVELOPMENT PERSONNEL: HARRISON,PAUL
 Select DEVELOPMENT PERSONNEL: BATES,NORMA
 Select DEVELOPMENT PERSONNEL: <RET>
 -----------------------------------------------------------------------
```

EDIT A PATCH

This function permits authorized developers of a package to edit a patch. The option is also used by a developer other than the one who entered the patch to review the patch and change the status to "completed/unverified". When looking up a patch, the values for the following fields can be entered as the look-up value: patch designation, package, patch subject, routine name. There is also a key word in context cross-reference on the SUBJECT field that can be used. Which fields may be edited are dependent on the value of the STATUS field.

```
Select PATCH: RT
     1  RT*2*1              TEST WRAP        COMPLETED/PKE
     2  RT*2*2              TEST VERIFY      UNDER DEVE PKE
CHOOSE 1-2: 2

Editing Patch: RT*2*2

PATCH SUBJECT: TEST VERIFY// <RET>
PRIORITY: MANDATORY// <RET>
HOLDING DATE: <RET>
Select CATEGORY OF PATCH: ROUTINE// <RET>
```

The priorities are "E"mergency (must be installed within one working day of receipt) or "M"andatory (must be installed within five days of receipt). CATEGORY OF PATCH is a multiple field. If you do not want this patch verified/installed until a certain date, enter that date at the HOLDING DATE prompt. The holding date can be changed to a future date but not a past date. For patches with a "completed" status, you may change the patch subject and holding date without having the patch status revert to "under development".

```
Do you want to copy lines from a message into the Patch
Description? No// <RET>

PATCH DESCRIPTION:
1>$TXT Created by JONES,JENNY at ISC-ALBANY.VA.GOV on FRIDAY,
05/08/92 AT 13:47
EDIT Option: <RET>
```

The first prompt in the above screen will only appear if the ASK PATCH DESCRIPTION COPY parameter is set to YES for the selected package (through the Add Package to Patch Module option). The system will check messages in the queue with subject starting with "package namespace*version" and will copy the selected lines of the text portion of the selected PackMan message. The option provides the ability to add/edit the patch description.

EDIT A PATCH

```
Select ROUTINE NAME: RT// <RET>
  ROUTINE NAME: RT// <RET>
                editing DESCRIPTION OF ROUTINE CHANGES

Copy routine lines from the routine directory into the description?
No// <RET>

Copy routine lines from a PackMan message into the description?
No// <RET>

DESCRIPTION OF ROUTINE CHANGES:
1>new line looks like:
2> XQ K RTBLD,RTTYR,RTBKGRD,RTPAR,RTSD,RT,RTSEL,A,Z,L,L1,I,RTINST,
EDIT Option: <RET>
  ROUTINE CHECKSUM:
  1>5463243
EDIT Option: <RET>
Select ROUTINE NAME: <RET>
```

If a programming change has been made to a routine, enter the name of the routine. Each routine in the patch must be entered as a separate entry in the routine multiple. THIS IS MANDATORY. If the routine can be found in the routine directory on FORUM, you will be prompted to copy routine lines into the routine description. Enter the line tag or line tag plus offset. You may also copy the modified line out of the PackMan message into the routine description. At the ROUTINE CHECKSUM prompt, you should enter the value obtained from running CHECK^XTSUMBLD.

EDIT A PATCH

```
                    editing MESSAGE TEXT

 Do you want to copy a PackMan message into the Message Text? No//
 <RET>


         MESSAGE TEXT:...

 29> G ^RTSM
 30> ;
 31>7 ;;Management Reports Menu
 32> G ^RTRPT
 33> ;
 34>8 ;;MAS Specific Setup Menu
 35> G ^RTMAS
 36> ;
 37>$END ROU RT
 EDIT Option: <RET>
```

You may choose to copy the routine portion of the PackMan message into your patch. If a PackMan message was selected previously, that message subject will be displayed in the first prompt shown on this screen; otherwise, you may select the PackMan message here. If you choose to copy, "NOT VERIFIED" is added to the first line of the routines and is subsequently removed when the patch is verified. When the routines are copied into the message text, the patch number is added to the version line of the routines. The message text should not have to be edited. Any edits must be done very carefully or the resulting PackMan routine may not install correctly.

EDIT A PATCH

```
 editing comments only seen by verifiers/developers...
 INTERNAL COMMENTS:
  1> Test verify
 EDIT Option: <RET>
 Select PATCH RELEASE CHECK: RT*2*1// <RET>
  PATCH RELEASE CHECK: RT*2*1// <RET>
  REQUIRED FOR VERIFICATION: NO// <RET>
 Select PATCH RELEASE CHECK: <RET>

 STATUS OF PATCH: UNDER DEVELOPMENT// c  COMPLETED/UNVERIFIED

 Are you sure you want to change status to 'Complete/not verified'?
 No// yes
 ...status changed to 'Completed/not verified'
 . .... .
 NOTE: A message has been sent to the verifiers of this package.

 Note: A bulletin has been sent to the verifiers of this package
 informing them of this 'Completed/not verified' patch.
```

The new INTERNAL COMMENTS field has been established as a means for the developer and verifier to exchange comments between themselves. If another patch must be verified/installed with this patch, enter that patch at the Select PATCH RELEASE CHECK prompt. If you use the routine name for lookup make sure the correct patch is selected as routines may appear in more than one patch. This is a multiple field and patches entered may be from the same package or different packages.   Enter YES at the REQUIRED FOR VERIFICATION prompt if the patch entered in the PATCH RELEASE CHECK field must be verified/installed prior to verification/installation of the patch you are editing. Enter NO to allow concurrent verification/installation of the patches.

When the patch status is changed to "completed/unverified", a patch message is sent to the verifiers of the package at the network address defined in the package VERIFIER'S DOMAIN field. A bulletin is also sent to the package verifiers at FORUM.

SUMMARY REPORT OF ALL PATCHES FOR A PACKAGE

```
Select PACKAGE: RT  RECORD TRACKING       RT
Select VERSION: 1// <RET>            Date Verified: 03-25-89

Sort by reverse SEQ # ? No// <RET>
```

```
Patch Summary Report              NOV 10,1992  15:20        PAGE 1
Designation
            SEQ    Subject                 Status         Routine
------------------------------------------------------------------
RT*1*1       1     TEST 10                 V  05/20/90
RT*1*2       2     Disable LAYGO for Sc    V  05/07/90     RTQ2
RT*1*5       3     TEST COPY               V  09/22/92     RT
                                                          RTQ
                                   Hold date  10/19/92
Associated patches: (v)A1AE*1*6      install with patch      `RT*1*17'
                    (c)DVB*11*3      install with patch      `RT*1*17'
                    (v)RA*1.1     <<= must be installed BEFORE `RT*1*17'
------------------------------------------------------------------------
RT*1*4       4     TEST 11                 V  05/21/90     RT
------------------------------------------------------------------------
RT*1*3       5     TEST 14 RTTEST          V  05/22/90     RTSM6
------------------------------------------------------------------------
RT*1*6       6     TEST 12                 V  05/21/90     RT
------------------------------------------------------------------------
RT*1*7       7     TEST BULLETIN           V  10/26/92     RT
                                                          RTQ2
                                   Hold date  10/26/92
------------------------------------------------------------------------
RT*1*10            TEST DESCRIPTION INP    U  06/13/91
------------------------------------------------------------------------
RT*1*11            TEST DES COPY           U  06/13/91     RT
                                                          RTQ
-------------------------------------------------------------------------
RT*1*12            TEST DES1               C  09/15/92
------------------------------------------------------------------------
RT*DBA*13          TST SUMMARY             C  09/14/92
------------------------------------------------------------------------
RT*1*14            TEST COPY/PATCH CHEC    C  10/19/92     RT
                                                          RTQ
                                                          RTQ2
                                   Hold date  10/19/92
Associated patches: (v)A1AE*1*6      install with patch      `RT*1*34'
                    (c)DVB*11*3   <<= must be installed BEFORE `RT*1*34'
------------------------------------------------------------------------
```

VERIFIED PATCH SUMMARY REPORT BY DATE

```
Do you want to Print Patches for a Specific Package? No// Y

Select PACKAGE: RT  RECORD TRACKING        RT

**** Date Range of Verified Patches ****

  Beginning DATE: T-999  (FEB 15, 1990)

  Ending    DATE: T  (NOV 10, 1992)

DEVICE: HOME// <RET>   Decnet           RIGHT MARGIN: 80// <RET>
```

```
Patch           SEQ #  Patch Subject             Date        Priority
Designation                                      Verified
----------------------------------------------------------------------
RT*1.26*17      14    TEST COPY                  SEP 22, 1992  MANDATORY
                                       Hold date: OCT 19, 1992
Associated patches: (v)A1AE*1*6      install with patch
                    (u)RA*2.08*5   <<= must be installed BEFORE

RT*1*4          13    TEST DEMO COPY             SEP 16, 1992  EMERGENCY
RT*1*18         12    TEST :                     SEP 15, 1992  EMERGENCY
RT*1*3          11    DEMO PATCH                 JUN 12, 1991  MANDATORY
Associated patches: (v)RT*1.25*3   <<= must be installed BEFORE

RT*1*19          9    TST                        MAR 19, 1991  MANDATORY
RT*1*20          8    TEST20 NEW MAIL,PRINT      MAR 19, 1991  MANDATORY
RT*1*14          7    TEST 14 RTTEST             MAY 22, 1990  MANDATORY
RT*1*11          6    TEST 11                    MAY 21, 1990  MANDATORY
RT*1*12          5    TEST 12                    MAY 21, 1990  MANDATORY
RT*1*13          4    TEST 13                    MAY 21, 1990  MANDATORY
RT*1*10          3    TEST 10                    MAY 20, 1990  MANDATORY
RT*1*8           2    TEST 8                     MAY 17, 1990  MANDATORY
RT*1*2           1    Disable LAYGO for Schedu   MAY  7, 1990  MANDATORY
```

VERIFY A PATCH (and or edit internal comments)

The Verify a Patch option can be used by authorized verifiers of a package to change the status of a patch from "completed/unverified" to "verified". Once the status has been changed, a patch message is sent to G.SUPPORT at the ISCs for distribution, a bulletin is sent to user(s) who have requested notification of patches for the package, and the patch becomes available to all patch users. The option can also be used to add/edit the INTERNAL COMMENTS field. Only holders of the A1AE PHVER security key may access this option.

```
Select PATCH: RT*1*3         TEST WRAP        COMPLETED/ PKE

Do not release/verify until: NOV  6, 1992

Internal Comments to developers/verifiers for: RT*1*3

INTERNAL COMMENTS:
  1>TEST INTERNAL WRAP
EDIT Option: <RET>

Continue and Display Patch? No// YES

'RTQ2' routine has previous Patches:     (c)RT*1*1

DEVICE: HOME// <RET>      LAT
```

The "Do not release/verify" message appears if there is a holding date for the selected patch.

If the routine(s) associated with this patch has had previous version-specific patches, they will be displayed. The letter in the parentheses indicates the status of that patch (i.e., (c) above).

VERIFY A PATCH (and or edit internal comments)

```
 DHCP Completed/not verified Patch Display                    Page: 1
 ======================================================================
 Run Date: OCT 26, 1992              Designation: RT*1*3
 Package : RT  - RECORD TRACKING     Priority   : MANDATORY
 Version : 1                         Status     : COMPLETED/UNVERIFIED
 ======================================================================

 Associated patches: (c)RT*1*4       install with patch       `RT*1*2'
                     (c)RA*1.08*5  <<= must be installed BEFORE `RT*1*2'

 Subject:  TEST WRAP

 Category:  ROUTINE

 Description:
 ===========
```

Any associated patches are listed, indicating that concurrent or sequential release/verification is required.

```
 DHCP Completed/not verified Patch Display                    Page: 2
 ======================================================================
 Run Date: OCT 26, 1992              Designation: RT*1*3
 Package : RT  - RECORD TRACKING     Priority   : MANDATORY
 Version : 2                         Status     : COMPLETED/UNVERIFIED
 ======================================================================

 Routine Information:
 ===================
 old line looks like:

 Routine Name:  RTQ2

 Description of Changes:

 Routine Checksum:  4599234
```

VERIFY A PATCH (and or edit internal comments)

```
User Information:                        Hold Date :    OCT 22,1992
  Entered By  :   EKLUND,PETER           Date Entered  :   APR 14,1992
  Completed By:   URBANSKI,JOSEPH L.     Date Completed:   SEP 16,1992
  Verified By :                          Date Verified :
 ====================================================================

Verifying Patch: RT*1*3

STATUS OF PATCH: COMPLETED/UNVERIFIED// VERIFIED

Are you sure you want to change status to 'Verified'? No// YES
   ...status changed to 'Verified'
          Removing  <<= NOT VERIFIED > from the first line
   . ... .
NOTE: A message has been sent to the Network Mail groups for
      distribution.

NOTE: A bulletin has been sent to the select users of this package
      informing them of this 'Verified' patch.
```