NETWORK HEALTH EXCHANGE (NHE)
USER MANUAL

Version 5.1
February 1996

Revised September 2004

Revision History

Documentation Revisions

The following table displays the revision history for this document. Revisions to the documentation are based on patches and new versions released to the field.

Date	Revision	Description	Author
02/1996	1.0	Initial Network Health Exchange V. 5.1 software documentation creation.	Michal Maunsell, Oakland, CA OIFO
09/27/04	2.0	Reformatted document to follow ISS styles and guidelines. **Data Scrubbing**—Changed all patient/user TEST data to conform to HSD&D standards and conventions as indicated below: • The first three digits (prefix) of any Social Security Numbers (SSN) start with "000" or "666." • Patient or user names are formatted as follows: MMPDPATIENT,[N] or KMPDUSER,[N] respectively, where the N is a number written out and incremented with each new entry (e.g., KMPDPATIENT, ONE, KMPDPATIENT, TWO, etc.). • Other personal demographic-related data (e.g., addresses, phones, IP addresses, etc.) were also changed to be generic.	Thom Blom, Oakland, CA OIFO
02/16/05	2.1	**PDF 508 Compliance**—The final PDF document was recreated and now supports the minimum requirements to be 508 compliant (i.e., accessibility tags, language selection, alternate text for all images/icons, fully functional Web links, successfully passed Adobe Acrobat Quick Check).	Thom Blom, Oakland, CA OIFO

Table i: Documentation revision history

Patch Revisions

For a complete list of patches related to this software, please refer to the Patch Module on FORUM.

Contents

Figures and Tables

Orientation

How to Use this Manual

Throughout this manual, advice and instructions are offered regarding the use of the Network Health Exchange (NHE) software within Veterans Health Information Systems and Technology Architecture (VistA) Infrastructure and Security Services (ISS) software products.

The main body of the manual is divided into three sections:

- User Menu

- Manager Menu

- Site Management Functions

Each of the three sections begins with an overview and then describes each menu option or function in detail.

This manual uses several methods to highlight different aspects of the material:

- Various symbols are used throughout the documentation to alert the reader to special information. The following table gives a description of each of these symbols:

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

Table ii: Documentation symbol descriptions

- Descriptive text is presented in a proportional font (as represented by this font).

- Conventions for displaying TEST data in this document are as follows:

  - The first three digits (prefix) of any Social Security Numbers (SSN) will be in the "000" or "666."

  - Patient and user names will be formatted as follows: [Application Name]PATIENT,[N] and [Application Name]USER,[N] respectively, where "Application Name" is defined in the Approved Application Abbreviations document and "N" represents the first name as a number spelled out and incremented with each new entry. For example, in Kernel (KRN) test patient and user names would be documented as follows: KRNPATIENT,ONE; KRNPATIENT,TWO; KRNPATIENT,THREE; etc.

- Sample HL7 messages, "snapshots" of computer online displays (i.e., character-based screen captures/dialogues) and computer source code are shown in a *non*-proportional font and enclosed within a box. Also included are Graphical User Interface (GUI) Microsoft Windows images (i.e., dialogues or forms).

  ➢ User's responses to online prompts will be boldface.

  ➢ The "**<Enter>**" found within these snapshots indicate that the user should press the Enter key on their keyboard.

  ➢ Author's comments are displayed in italics or as "callout" boxes.

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

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

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

How to Obtain Technical Information Online

Exported file, routine, and global documentation can be generated through the use of Kernel, MailMan, and VA FileMan utilities.

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

Help at Prompts

VistA software provides online help and commonly used system default prompts. In character-based mode, users are strongly encouraged to enter question marks at any response prompt. At the end of the help display, you are immediately returned to the point from which you started. This is an easy way to learn about any aspect of VistA software.

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

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

- Enter two question marks ("**??**") at a field/prompt for a more detailed description. Also, if a field is a pointer, entering two question marks displays the HELP PROMPT field contents and the list of choices.

- Enter three question marks ("**???**") at a field/prompt to invoke any additional Help text that may be stored in Help Frames.

Obtaining Data Dictionary Listings

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

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

Assumptions About the Reader

This manual is written with the assumption that the reader is familiar with the following:

- VistA computing environment (e.g., Kernel Installation and Distribution System [KIDS])

- VA FileMan data structures and terminology

- M programming language

It provides an overall explanation of the use of the Network Health Exchange (NHE) software. However, no attempt is made to explain how the overall VistA programming system is integrated and maintained. Such methods and procedures are documented elsewhere. We suggest you look at the various VA home pages on the World Wide Web (WWW) for a general orientation to VistA. For example, go to the VHA OI Health Systems Design & Development (HSD&D) Home Page at the following Web address:

http://vaww.vista.med.va.gov/

Reference Materials

Readers who wish to learn more about Infrastructure and Security Services (ISS) documentation should consult the following:

- *Network Health Exchange Release Notes*

- *Network Health Exchange Installation Guide*

- *Network Health Exchange Technical Manual*

- *Network Health Exchange User Manual* (this manual)

- The Network Health Exchange Home Page at the following Web address:

   http://vaww.vista.med.va.gov/nhe/index.asp

   This site contains additional information and documentation.

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

> http://www.adobe.com/

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

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

VistA documentation can be downloaded from the Enterprise VistA Support (EVS) anonymous directories or from the Health Systems Design and Development (HSD&D) VistA Documentation Library (VDL) Web site:

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

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

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

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

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

1. Introduction

Overview

Network Health Exchange (NHE) was developed at the Chicago Westside Veterans Affairs Medical Center (VAMC) and has evolved over several iterations. The Network Health Exchange is a Veterans Health Information Systems and Technology Architecture (VistA) component that provides clinicians with quick and easy access to patients' information from any site where they have been treated. NHE provides the computer mechanism for VAMC clinicians to retrieve clinical patient data from other medical centers. The requester is notified of returned patient data through an alert that appears with the VistA menu system. Patient data is displayed in a format similar to the integrated clinical reports found in Health Summary and can be viewed onscreen or printed.

The NHE software accesses several VistA files which contain information concerning clinic visits, diagnoses, prescriptions, laboratory tests, radiology exams, and hospital admissions. It enables clinicians to request a total or brief medical or pharmacy record for a specified patient from a specified site or sites. This permits clinical staff to take advantage of the vast amount of clinical data supported through VistA.

Network Health Exchange is based on the Health Summary software. However, NHE does not make calls to Health Summary so it is not necessary for a site to have Health Summary installed in order to use NHE nor is familiarity with Health Summary required in order to use NHE.

The Network Health Exchange is another tool, similar to Patient Data Exchange (PDX). As compared to PDX, however, Network Health Exchange offers fewer retrieval options and requires less input by the user, resulting in simpler, faster access to patient data.

The Network Health Exchange was the first phase of the Master Patient Index/Patient Demographics (MPI/PD project, which was formerly known as the Clinical Information Resource Network [CIRN] Project). The primary goal of the MPI/PD project is to assure full access to patients' information for primary care providers, regardless of location of care. NHE was released as an interim bridge to a more fully integrated clinical patient data exchange system.

Software Operation

NHE is used to retrieve and print patient data. You can request a total or brief medical or pharmacy record for a specified patient from a specified site quickly and easily. The return of a request is signalled by an alert. It is easy to add and edit sites with which data will be exchanged and to monitor the the messages containing incoming and outgoing requests.

- **Network Health Exchange** menu options for users are described in the "User Menu" chapter in this manual. In order to initiate the request for data from another VA facility, you simply enter the patient's name (last,first) or Social Security Number, select the data type (Clinical or only Pharmacy) and amount of patient data you would like returned (full history or last 12 months). Information can be either viewed on the screen or printed.

- **NHE Manager Menu** provides options to add or edit sites in the local VAMC NETWORK HEALTH AUTHORIZED SITES file, to inquire to the tracking file about a previous message, or

to access the Network Health Exchange menu options. These options are described in the "Manager Menu" chapter in this manual.

- **Site Management Functions** include three servers and two functions for system managers to maintain the NHE software at their site. These utilities are described in the "Site Management Functions" chapter in this manual.

The first NHE screen you see is the following:

```
          VVVV              VVAA
           VVVV             VVAAAA
            VVVV           VVAAAAAA
             VVVV        VVAA  AAAA
              VVVV     VVAA    AAAA
               VVVV  VVAA        AAAA
                VVVVVVAA          AAAA
                 VVVVAA    AAAAAAAAAA

                 NETWORK HEALTH EXCHANGE
             Developed at Chicago Westside VA
                          V5.1
     This report will come back to you as an ALERT.  To read or
     print the report, type 'VA' on any screen where you see the
     following:

              Enter "VA VIEW ALERTS    to review alerts

     You may also use the print options #5 or #6 on the Network
     Health Exchange menu.


Press the 'Return' key to continue
```

Figure 1-1: Network Health Exchange first screen

2. User Menu

The Network Health Exchange software comprises two menus, the first of which is described in this chapter and illustrated below:

The DHCP Network Health Exchange Options Menu is shown below. It is the main user menu and can be accessed from the Network Health Exchange first screen. It permits the retrieval of patient information from another VAMC site and allows that information to be viewed onscreen or printed. It is intended to be used by health professionals who have direct patient care responsibilities and have need for clinical information. (If your site has added its own patients, you can make requests for data on patients at your own local facility.)

Network Health Exchange Options Menu

This screen shows the NHE Options Menu, (the User options).

```
NHE    Network Health Exchange Options

DHCP Network Health Exchange Menu                        User: NHEUSER,ONE
========================================================================

     1 - Brief (12 months) Medical Record Information
     2 - Total Medical Record Information
     3 - Brief (12 months) Pharmacy Information
     4 - Total Pharmacy Information
     5 - Print (Completed Requests Only)
     6 - Print By Type of Information (Completed Requests)



NOTE: This package does not make calls to the Health Summary package
      so sites that do not have Health Summary installed can still use
      this package. However, any subsequent updates or changes to the
      Health Summary package will not be reflected in this package unless
      it is updated.


                          Select 1-6:
```

Figure 2-1: NHE User's Menu

Each option is described in the next section, **User Menu Options**.

User Menu Options

The User menu has six options. These options request patient data to be viewed or printed. The first four options are for requesting information from another medical center. They differ only in the type and amount of information retrieved. The last two options are for printing patient information.

Some sites have added their own patients to the NHE NETWORK PATIENT file so that users can request data on patients at their own local site. You may want to ask if your site is set up this way.

The table below shows what each option will give you. For example, if you choose option 1, the report that comes back will give you all patient information that is available for the past twelve months for the individual you specified.

Option	Option Text	Description
1	Brief (12 months) Medical Record Information	All information available online for the past 12 months for the individual you specified
2	Total Medical Record Information	All information available in the system with no time limit for the individual you specified
3	Brief (12 months) Pharmacy Information	Pharmacy information for the past 12 months for the individual you specified
4	Total Pharmacy Information	All Pharmacy information with no time limit for the individual you specified
5	Print (Completed Requests Only)	Print any previously completed requests in the system
6	Print By Type of Information (Completed Requests)	Print one or more sections of previously completed data

Table 2-1: User menu options

ALERTS Notify You of Returned Information

After you choose Option 1, 2, 3, or 4 and request patient information, when you log back in to the system again and the information has been retrieved, you will see a message like this on your screen:

```
You have PENDING ALERTS
          Enter  "VA   VIEW ALERTS     to review alerts
```

Figure 2-2: Sample alerts pending notification

or, if you continue to be logged on to the system, when the information is returned, you will see a message like this:

```
NETWORK data completed for SANFRANCISCO   <BRIEF> NHEPATIENT   000111111
SANFRANCISCO
          Enter   "VA   VIEW ALERTS      to review alerts
```

Figure 2-3: Sample information returned message

Type **"VA** and the system will give you the number(s) of your message(s) so that you can retrieve the patient information you requested.

Patient data can be displayed at the time the alert is processed or can be viewed at a later time.

> Records for patients in the database.with an SSN containing five leading zeroes (00000), two leading EEs or ZZs or a P will *not* be sent across to other sites.

Option 1—Brief (12 months) Medical Record Information

---

1 - Brief (12 months) Medical Record Information

(All information available in the system for the past 12 months)

This option shows a dialogue similar to this one:

```
Select 1-6: 1
Would you like to look for any previous requests on file  ? NO// <Enter>


        [If you answer yes: Yes shows a list of previous requests - in case
         someone already requested data recently for a patient.]


@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
        THIS OPTION WILL REQUEST BRIEF PATIENT DATA FROM ANOTHER VAMC
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

     You can't request information if the patient is not already on file.



SOCIAL SECURITY # or NAME: 000666666 <Enter>   NHEPATIENT,SIX     01-01-40
000666666      NO     NSC VETERAN

Request patient information from: all <Enter> LOCAL AREA SITES       16000,16000A



Request patient information from: <Enter>          [If you chose all local area sites:
                                                    Patient information requests will be
Sending Patient Data Request.........               sent to all sites included by your
Network Area Recipients:                            ADPAC or IRM person in this
MARTINEZ.VA.GOV        612                          group.]
SANFRANCISCO.VA.GOV       662
Local Message ID 31192
Your request has been submitted for completion



SOCIAL SECURITY # or NAME:
```

Figure 2-4: Sample dialogue from the Brief (12 months) Medical Record Information option

ALERTS Notify You of Returned Information

After you choose Option 1, 2, 3, or 4 requesting patient information and the information has been retrieved, you will see a message on your screen like this:

```
You have PENDING ALERTS
          Enter  "VA   VIEW ALERTS    to review alerts
```

Figure 2-5: Sample alerts pending notification

Type **"VA** on any screen where you see the message displayed in Figure 2-5 and the system will give you the number(s) of your message(s) so that you can retrieve the patient information you requested.

You will have to exit from the NHE options in order to see this message on your screen.

Patient data can be displayed at the time the alert is processed or can be viewed at a later time.

Option 2—Total Medical Record Information

---

2 - Total Medical Record Information

(All information available in the system with no time limit)

This option shows a dialogue similar to this one:

```
Select 1-6: 2
Would you like to look for any previous requests on file  ? NO// <Enter>



@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
        THIS OPTION WILL REQUEST PATIENT DATA FROM ANOTHER VAMC
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

     You can't request information if the patient is not already on file.



SOCIAL SECURITY # or NAME: 000222222 <Enter>  NHEPATIENT,TWO     01-01-30
000222222     NO     NSC VETERAN

Request patient information from: 662 <Enter>  SANFRANCISCO.VA.GOV        662

Request patient information from: <Enter>

Sending Patient Data Request........
Local Message ID 31195

Your request has been submitted for completion




SOCIAL SECURITY # or NAME:
```

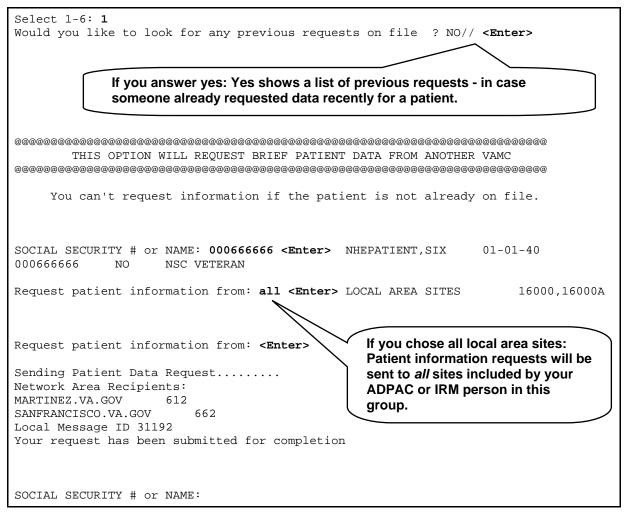**Figure 2-6: Sample dialogue from the Total Medical Record Information option**

ALERTS Notify You of Returned Information

After you choose Option 1, 2, 3, or 4 requesting patient information, when you log back in to the system again and the information has been retrieved, you will see a message on your screen like this:

```
You have PENDING ALERTS
          Enter  "VA   VIEW ALERTS     to review alerts
```
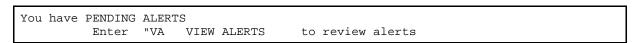
Figure 2-7: Sample alerts pending notification

Type **"VA** on any screen where you see the message displayed in Figure 2-7 and the system will give you the number(s) of your message(s) so that you can retrieve the patient information you requested.

You will have to exit from the NHE options in order to see this message on your screen.

Patient data can be displayed at the time the alert is processed or can be viewed at a later time.

Option 3—Brief (12 months) Pharmacy Information

> **3 - Brief (12 months) Pharmacy Information**
>
> (Pharmacy information for the past 12 months)

This option shows a dialogue similar to this one:

```
Select 1-6: 3
Would you like to look for any previous requests on file ? NO// <Enter>



@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
        THIS OPTION WILL REQUEST BRIEF PHARMACY DATA FROM ANOTHER VAMC
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

     You can't request information if the patient is not already on file.



SOCIAL SECURITY # or NAME: 000333333 <Enter>  NHEPATIENT,THREE     01-01-55
000333333     NO     NSC VETERAN

Request patient information from: SANFRAN <Enter> CISCO.VA.GOV          662

Request patient information from: <Enter>

Sending Patient Data Request........
Local Message ID 31200

Your request has been submitted for completion
A copy of this request was also sent to your 'IN' mail basket


SOCIAL SECURITY # or NAME:
```

Figure 2-8: Sample dialogue from the Brief (12 months) Pharmacy Information option

ALERTS Notify You of Returned Information

After you choose Option 1, 2, 3, or 4 requesting patient information, when you log back in to the system again and the information has been retrieved, you will see a message on your screen like this:

```
You have PENDING ALERTS
          Enter  "VA   VIEW ALERTS     to review alerts
```

Figure 2-9: Sample alerts pending notification

Type **"VA** on any screen where you see the message displayed in Figure 2-9 and the system will give you the number(s) of your message(s) so that you can retrieve the patient information you requested.

You will have to exit from the NHE options in order to see this message on your screen.

Patient data can be displayed at the time the alert is processed or can be viewed at a later time.

Option 4—Total Pharmacy Information

---

4 - Total Pharmacy Information

(All Pharmacy information with no time limit)

This option shows a dialogue similar to this one:

```
Select 1-6: 4
Would you like to look for any previous requests on file ? NO// <Enter>


@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
        THIS OPTION WILL REQUEST PATIENT PHARMACY DATA FROM ANOTHER VAMC
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

     You can't request information if the patient is not already on file.



SOCIAL SECURITY # or NAME: 000444444 <Enter>  NHEPATIENT,FOUR     01-01-21
000444444 NO     NSC VETERAN

Request patient information from: SANFRAN <Enter> CISCO.VA.GOV          662

Request patient information from: <Enter>

Sending Patient Data Request........
Local Message ID 31201

Your request has been submitted for completion



SOCIAL SECURITY # or NAME:
```

Figure 2-10: Sample dialogue from the Total Pharmacy Information option

ALERTS Notify You of Returned Information

After you choose Option 1, 2, 3, or 4 requesting patient information, when you log back in to the system again and the information has been retrieved, you will see a message on your screen like this:
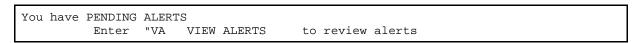
```
You have PENDING ALERTS
         Enter  "VA   VIEW ALERTS    to review alerts
```

Figure 2-11: Sample alerts pending notification

Type **"VA** on any screen where you see the message dispalyed in Figure 2-11 and the system will give you the number(s) of your message(s) so that you can retrieve the patient information you requested.

You will have to exit from the NHE options in order to see this message on your screen.

Patient data can be displayed at the time the alert is processed or can be viewed at a later time.

Option 5—Print (Completed Requests Only)

---

5 - Print (Completed Requests Only)

(Print any previously completed requests in the system)

This option shows a dialogue similar to this one:

```
Select 1-6: 5


Which requests would you like  Y) Your Own  A) All  ^) None  Y// A

     THIS REPORT CAN BE SENT TO A PRINTER OR READ ON THE SCREEN
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Message #               Subject                              Date Sent
==========================================================================
1               <NHBP>  NHEPATIENT 000666666   MARTINEZ.VA.G    01/10/96
2               <BRIEF> NHEPATIENT 000666666   SANFRANCISCO.VA.G 01/30/96@1422
3               <NHBP>  NHEPATIENT 000777777   MARTINEZ.VA.GO   01/25/96

Type one number eg. 1 or up to ten numbers separated by commas eg. 1,2,3,4,5,6,7
,8,9,10: 1

DEVICE: HOME//   VIRTUAL TERMINAL


NHEPATIENT,SIX  000-66-6666                  DOB: 1930

----------------------------- DEM - Demographics -------------------
            Address: 123 MAIN STREET     Phone:
                     SAN FRANCISCO  CALIFORNIA  94105 County:SAN FRANCISCO
     Marital Status: NEVER MARRIED
           Religion: UNKNOWN/NO PREFERENCE
  Period of Service: KOREAN
  Branch of Service: ARMY 00/00/50 TO 00/00/52
             Combat: NO  POW: NO
        Eligibility: NSC   Status: VERIFIED
 Eligible for care?: YES


----------------------------ADRs & Allergies --------------------------
   Allergy/Reaction:
         NO KNOWN DRUG ALLERGIES
------------------- Outpatient Medications (Brief) ----------------------


                                        Fill     Exp/Canc

Press return to continue or "^" to quit: <Enter>
```

Figure 2-12: Sample dialogue from the Print (Completed Requests Only) option (1 of 3)

```
*****************************CONFIDENTIAL Patient Data*****************
------------------ Outpatient Medications (Brief) ---------------------

                                         Fill      Exp/Canc
      Drug                    Qty   Stat  Date       Date

DIAZEPAM SUS-REL. 15MG          30   A    12/08/95   06/09/96
HYDROCORTISONE CREAM 1% 1 OZ TUBE  1   A    12/08/95   06/09/96
------------------------- IV Pharmacy ------------------------------

Drug                         Dose  Stat   Start      Stop
No data available
-------------------------- Unit Dose ------------------------------



Press return to continue or "^" to quit: <Enter>
```

Figure 2-13: Sample dialogue from the Print (Completed Requests Only) option (2 of 3)

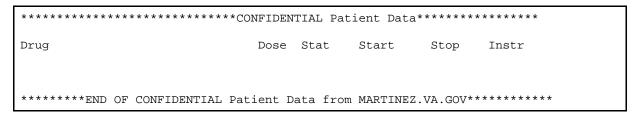```
*****************************CONFIDENTIAL Patient Data*****************

Drug   Dose Stat   Start   Stop   Instr

*********END OF CONFIDENTIAL Patient Data from MARTINEZ.VA.GOV***********
```

**Figure 2-14: Sample dialogue from the Print (Completed Requests Only) option (3 of 3)**

## Option 5—Report Sample

This option allows you to send the report to a printer or view it on your screen.

The printed report will look like this:

```
NHEPATIENT,SIX  000-66-6666                DOB: 1930

----------------------------- DEM - Demographics ----------------------
            Address: 123 MAIN STREET      Phone:
                     SAN FRANCISCO  CALIFORNIA  94105 County: SAN FRANCISCO
     Marital Status: NEVER MARRIED
           Religion: UNKNOWN/NO PREFERENCE
  Period of Service: KOREAN
  Branch of Service: ARMY 00/00/50 TO 00/00/52
             Combat: NO  POW: NO
        Eligibility: NSC    Status: VERIFIED
 Eligible for care?: YES


--------------------------ADRs & Allergies ----------------------------
   Allergy/Reaction:
         NO KNOWN DRUG ALLERGIES
---------------------- Admission/Discharge----------------------------
No data available


-------------------------- Discharge Summary -------------------------
IMPORTANT: UNSIGNED/UNCOSIGNED SUMMARIES HAVE NOT BEEN REVIEWED BY PHYSICIAN(S)
--------------------------ADRs & Allergies ----------------------------
   Allergy/Reaction:
         NO KNOWN DRUG ALLERGIES
---------------------- Admission/Discharge----------------------------
No data available


-------------------------- Discharge Summary -------------------------
IMPORTANT: UNSIGNED/UNCOSIGNED SUMMARIES HAVE NOT BEEN REVIEWED BY PHYSICIAN(S)
No data available


-------------------------- Disabilities --------------------------
Eligibility: NSC    VERIFIED    Total S/C %:
Disabilities
--------------
------------------ Outpatient Medications (Brief) ---------------------

                                         Fill      Exp/Canc
     Drug                      Qty   Stat    Date      Date

No data available


------------------------ Chem & Hematology ------------------------
  ** NOTE:  THE RESULTS IN THIS SECTION ARE FOR THE LAST 6 MONTHS ONLY **

Date/Time        Specimen    Test        Units       Result      Ref Range

No data available


--------------------------- Microbiology -------------------------
No data available
------------------------ Surgical Pathology ----------------------
No data available
-------------------------- Cytopathology -------------------------
```

```
No data available
------------------------ Radiology Profile ------------------------
No data available
------------------------ Radiology Status ------------------------
No data available
------------------------- Surgery Reports ------------------------
---------------------------- ICD Procedures ------------------------
10/02/90    MAGNET REMOVAL CORNEA FB        11.0
09/16/90    MAGNET REMOVAL CORNEA FB        11.0
---------------------------- ICD Surgeries -------------------------
No data available
---------------------------- Past Clinic Visits --------------------
Date/Time          Clinic
No data available


---------------------------- Future Clinic Visits -----------------
Date/Time          Clinic
No data available
---------------------------- Medicine Summary ---------------------
No data available
------------------ Pulmonary Function Tests Summary -----------------
No Pulmonary data available
----------------------- CN - Crisis Notes -------------------------
No data available


------------------------- Progress Notes ---------------------------
NOTE: MANUAL NOTES EXIST. AUTOMATED NOTES ARE NOT MEANT TO BE INCLUSIVE.

No data available


*********END OF CONFIDENTIAL Patient Data from SAN FRANCISCO.VA.GOV********
```

Figure 2-15: Sample dialogue from the

Option 6—Print By Type of Information (Completed Requests)

---

6 - Print By Type of Information (Completed Requests)

(Print one or more sections of previously completed data)

This option shows a dialogue similar to this one:

```
Select 1-6: 6



Which requests would you like   Y) Your Own  A) All  ^) None  Y// A

      THIS REPORT CAN BE SENT TO A PRINTER OR READ ON THE SCREEN
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Message #               Subject                                Date Sent
===========================================================================
1             <NHBP>  NHEPATIENT  000666666   MARTINEZ.VA.G    01/10/96
2             <BRIEF> NHEPATIENT  000666666   SANFRANCISCO.VA.G 01/30/96@1422
3             <NHBP>  NHEPATIENT  000777777   MARTINEZ.VA.GO   01/25/96

Type the number of the report you would like to review
or print: 2


Choose type: icd
     1   ICD Procedures
     2   ICD Surgeries
CHOOSE 1-2: 1

DEVICE: HOME// <Enter>  VIRTUAL TERMINAL


**************************CONFIDENTIAL Patient Data*******************

---------------------------- ICD Procedures ------------------------
10/02/90   MAGNET REMOVAL CORNEA FB          11.0
09/16/90   MAGNET REMOVAL CORNEA FB          11.0


Choose type:
```

Figure 2-16: Sample dialogue from the Print By Type of Information (Completed Requests) option

Option 6—Report Sample

This option allows you to send the report to a printer or view it on your screen.

The printed report will look like this:

```
*******************************CONFIDENTIAL Patient Data***************

----------------------------- ICD Procedures -------------------------
10/02/90     MAGNET REMOVAL CORNEA FB          11.0
09/16/90     MAGNET REMOVAL CORNEA FB          11.0
```

Figure 2-17: Sample report from the Print By Type of Information (Completed Requests) option

3. Manager Menu

The second of the two NHE menus, the Manager Menu, is described in this chapter.

The Network Health Exchange Manager menu is shown below (Figure 3-1). It is by individuals responsible for the operation of the local Network Health Exchange software. The Network Health Exchange Options (the User options described in the User Menu chapter) are also available from the Manager menu as Option 3 (see below).

```
Network Health Exchange Manager

     1    Network Health Exchange Add/Edit Sites[AFJXNHEX EDIT SITES]
     2    Network Health Exchange Inquiry  [AFJXNHEX INQUIRE]
     3    Network Health Exchange Options [AFJXNHEX REQUEST]
```

Figure 3-1: Network Health Exchange Manager Menu

Manager Menu Options

The Manager menu has three options. The table below shows what each option will do for you.

Option	Option Text	Description
1	**Add/Edit Sites**	Edit and add sites that can receive requests (sites in the station's VAMC NETWORK HEALTH EXCHANGE file). *If the 'Include in All' question is answered Y or **<Enter>** is pressed, the site will be included when 'All' is chosen. See INCLUDE IN ALL field below.*
2	**Inquiry**	Inquire about a previous message ID, or Date/Time Received, or Patient SSN, or Requestor Name, or Requesting Place.
3	**Options**	Request patient data and allow the viewing or printing of returned data. These are the same as the User Menu options.

Table 3-1: Manager Menu Options

Option 1—Add/Edit Sites
 Option

---

1 - Network Health Exchange Add/Edit Sites

To enter a new or edit a present Network Health Authorized site.

Adding a Site

This option shows a dialogue similar to this one when you add a new site:

```
Select Network Health Exchange Manager Menu  Option: 1 <Enter>  Network Health
Exchange Add/Edit Sites


Select VAMC NETWORK HEALTH AUTHORIZED SITES NAME: TESTSITE.VA.GOV
  Are you adding 'TESTSITE.VA.GOV' as
    a new VAMC NETWORK HEALTH AUTHORIZED SITES (the 8TH)? Y <Enter>  (Yes)
   VAMC NETWORK HEALTH AUTHORIZED SITES STATION NUMBER: 99999
NAME: TESTSITE.VA.GOV// <Enter>
STATION NUMBER: 99999// <Enter>
NICKNAME: TS
INCLUDE IN 'ALL'?: Y <Enter>  YES
SEND UPDATE TO NETWORK FILE?: Y <Enter>  YES
# DAYS TO KEEP TRACKING DATA?: 90
ACCEPT NETWORK FILE UPDATE?: Y <Enter>  YES
UPDATE NETWORK IDENTIFIER ?: Y <Enter>  YES
```

Figure 3-2: Sample dialogue from the Network Health Exchange Add/Edit Sites—Adding a site

Fields

NAME: The names of sites you will request and receive data from. The NAME field entry must match the entry in your DOMAIN file (#4.2) *exactly*.

STATION NUMBER: The ALL LOCAL AREA SITES field should have site numbers entered separated by commas for those sites you wish to request data from when selecting ALL LOCAL AREA SITES.

NICKNAME: The 1 - 3 character(s) that will be displayed on Patient Lookup (if Update Network Identifier is set to YES) that will signify this site entry, (i.e., W for Chicago Westside or San Francisco for San Francisco). If a patient has been seen at more than one site, these nicknames are concatenated together without punctuation (i.e., WSF is displayed if a patient has been seen at Chicago Westside *and* San Francisco VAMCs).

INCLUDE IN 'ALL'? Enter YES to include this entry as one of the sites requests will be sent to if the user selects the ALL LOCAL AREA SITES entry.

ℹ️ Unless you enter NO at this prompt, the site will be included in the ALL LOCAL AREA SITES group.

SEND UPDATE TO NETWORK FILE?   This field determines whether you want to send your nightly updates to another site to update their VAMC NETWORK PATIENT file (#537010). Any new patients seen at your site will be sent to this site and added to their VAMC NETWORK PATIENT file (#537010) as having data at your site. If your site's entry at this site is set to update the patient identifier, then that site's nickname for your site will be updated and displayed at patient lookup.

ACCEPT NETWORK FILE UPDATE?   This field determines whether you want to accept the nightly update from another site. A site may want to send you their update but you may not want to accept because they are not part of your network.

UPDATE NETWORK IDENTIFIER?   If yes, then the NETWORK IDENTIFIER field in the PATIENT file (#2) will be updated with the NICKNAME for this site entry and displayed at patient lookup.

Note: Network Identifiers from multiple sites are concatenated (strung) together.

ℹ️ Records for patients in the database.with an SSN containing five leading 0s (zeroes), two leading EEs or ZZs or a P will not be sent across to other sites.

Editing a Site

In order to edit information about a site, you must enter the domain name exactly as it is written in the file.

```
Select Network Health Exchange Manager Menu  Option: 1 <Enter>  Network Health
Exchange Add/Edit Sites

Select VAMC NETWORK HEALTH AUTHORIZED SITES NAME: testsite.va.gov <Enter>     99999
NAME: TESTSITE.VA.GOV// <Enter>
STATION NUMBER: 99999// <Enter>
NICKNAME: TS// <Enter>
INCLUDE IN 'ALL'?: YES// n <Enter>  NO
SEND UPDATE TO NETWORK FILE?: YES// <Enter>
# DAYS TO KEEP TRACKING DATA?: 90// <Enter>
ACCEPT NETWORK FILE UPDATE?: YES// <Enter>
UPDATE NETWORK IDENTIFIER ?: YES// <Enter>
```

Figure 3-3: Sample dialogue from the Network Health Exchange Add/Edit Sites option—Editing a site

Option 2—Network Health Exchange Inquiry

---

2 - Network Health Exchange Inquiry

To inquire to the NHEX tracking file that stores data on all incoming and outgoing requests about the message ID, date/time received, patient SSN, requestor name, or requesting place.

This option shows a dialogue similar to this one:

```
Select Network Health Exchange Manager Option: 2 <Enter> Network Health Exchange
Inquiry
Select VAMC NETWORK HEALTH EXCHANGE MESSAGE ID: ?
 Answer with VAMC NETWORK HEALTH EXCHANGE MESSAGE ID, or
     DATE/TIME RECEIVED, or PATIENT SSN, or REQUESTOR NAME, or
     REQUESTING PLACE
 Do you want the entire 9-Entry VAMC NETWORK HEALTH EXCHANGE List? Y <Enter>  (Yes)
Choose from:
29607      10-31-95      000555555      NHEPATIENT,FIVE     MARTINEZ.VA.GOV
29608      10-31-95      000666666      NHEPATIENT,SIX      MARTINEZ.VA.GOV
29609      10-31-95      000777777      NHEPATIENT,SEVEN    MARTINEZ.VA.GOV
29610      10-31-95      000888888      NHEPATIENT,EIGHT    MARTINEZ.VA.GOV
29611      10-31-95      000999999      NHEPATIENT,NINE     MARTINEZ.VA.GOV
29612      10-31-95      000101010      NHEPATIENT,TEN      MARTINEZ.VA.GOV
29613      10-31-95      000111111      NHEPATIENT,ELEVEN   MARTINEZ.VA.GOV
29614      10-31-95      000121212      NHEPATIENT,TWELVE   MARTINEZ.VA.GOV
29615      11-01-95      000131313      NHEPATIENT,THIRTEE  MARTINEZ.VA.GOV

Select VAMC NETWORK HEALTH EXCHANGE MESSAGE ID: 29615 <Enter>     11-01-95
000131313 NHEPATIENT,THIRTEEN      MARTINEZ.VA.GOV
MESSAGE ID: 29615
  DATE/TIME RECEIVED: NOV 01, 1995@13:24:22
  PATIENT SSN: 000131313                 REQUESTOR DUZ: 9225
  REQUESTOR NAME: NHEUSER,TWO            REQUESTING PLACE: MARTINEZ.VA.GOV
  PATIENT DATA FOUND?: YES               REQUEST TYPE: BRIEF
  SENSITIVE PATIENT?: NO                 OUTGOING REQUEST?: YES
  DATE/TIME COMPLETED: NOV 01, 1995@14:22:47


Press Return to continue
```

Figure 3-4: Sample dialogue from the Network Health Exchange Inquiry option

Option 3—Options

> **3 - Network Health Exchange Options**
>
> The NHE User Menu with its six options for requesting and printing patient information.
>
> Reports can be sent to a printer or read on the screen.

If you choose this option, you will see the main NHE menu, as shown below:

```
Select Network Health Exchange Manager Option: 3 <Enter>  Network Health Exchange
Options



                    VVVV                VVAA
                   VVVV                 VVAAAA
                  VVVV                 VVAAAAAA
                 VVVV           VVAA  AAAA
                VVVV      VVAA       AAAA
               VVVV  VVAA            AAAA
              VVVVVVAA                AAAA
              VVVVAA        AAAAAAAAAA

                  NETWORK HEALTH EXCHANGE
              Developed at Chicago Westside VA
                         V5.1
          This report will come back to you as an ALERT.  To read or
          print the report, type 'VA' on any screen where you see the
          following:

               Enter "VA VIEW ALERTS    to review alerts

          You may also use the print options #5 or #6 on the Network
          Health Exchange menu.


Press the 'Return' key to continue
```

Figure 3-5: Sample dialogue from the Network Health Exchange Options option (1 of 2)

When you press Enter, you will see:

```
DHCP Network Health Exchange Menu              User: NHEUSER,ONE
========================================================================


     1 - Brief (12 months) Medical Record Information
     2 - Total Medical Record Information
     3 - Brief (12 months) Pharmacy Information
     4 - Total Pharmacy Information
     5 - Print (Completed Requests Only)
     6 - Print By Type of Information (Completed Requests)




NOTE: This package does not make calls to the Health Summary package
      so sites that do not have Health Summary installed can still use
      this package. However, any subsequent updates or changes to the
      Health Summary package will not be reflected in this package unless
      it is updated.


                          Select 1-6:
```

Figure 3-6: Sample dialogue from the Network Health Exchange Options option (2 of 2)

4. Site Management Functions

These are utilities for system managers to maintain the NHE software at their site.

The functions are activated by directly accessing the utility or by changing the time the routine is run.

The site management functions are:

- AFJXNH ADD PATIENTS   Network Health Exchange Add Patients
- AFJXNH PURGE NIGHTLY   Network Health Exchange Nightly Purge
- AFJXNETP   Network Health Patient Server
- AFJXNHDONE   Network Health Exchange Alert Send Server
- AFJXSERVER   Network Health Exchange Data Server

Utility Function	Description
Add Patients	Nightly adds patients to VAMC NETWORK PATIENT file (#537010).
Nightly Purge	Nightly purges messages from the mailbox of NETWORK,HEALTH EXCHANGE.
Patient Server	Takes bulletin from nightly Add Patient task and attempts to add patient to VAMC NETWORK PATIENT file (# 537010).
Alert Send Server	Sends alert back to user that request is complete and allows user to print the requested clinical data.
Data Server	Processes patient data request.

Table 4-1: Site management functions

Network Health Exchange Add Patients Option	[AFJXNH ADD PATIENTS]

This routine should be scheduled nightly to add patients to the VAMC NETWORK PATIENT file (#537010). Your ADPAC or IRM staff should schedule it.

```
NAME: AFJXNH ADD PATIENTS
MENU TEXT: Network Health Exchange Add Patients
TYPE: run routine                      CREATOR: POSTMASTER
PACKAGE: NETWORK HEALTH EXCHANGE
DESCRIPTION:   SCHEDULE NIGHTLY TO ADD PATIENTS TO NETWORK PATIENT FILE
ROUTINE: AFJXPNHA                      TIMESTAMP: 55977,50814
*QUEUED TO RUN AT WHAT TIME:
*RESCHEDULING FREQUENCY:UPPERCASE MENU TEXT: NETWORK HEALTH EXCHANGE ADD PATIENTS
```

From the Systems Manager Menu, choose Taskman Management, Schedule/ Unschedule Options, then the AFJXNH ADD PATIENTS option. Your computer dialogue should look similar to this:

```
Select Systems Manager Menu Option: TASK <Enter> man Management


          Schedule/Unschedule Options
          One-time Option Queue
          Taskman Management Utilities ...
          List Tasks
          Dequeue Tasks
          Requeue Tasks
          Delete Tasks
          Print Options that are Scheduled to run
          Cleanup Task List
          Print Options Recommended for Queueing

Select Taskman Management Option: SCHE <Enter> dule/Unschedule Options

Select OPTION to schedule or reschedule: AFJXNH ADD PATIENTS <Enter>      Network
Health Exchange Add Patients
          ...OK? Yes// <Enter>  (Yes)
       (R)


                      Edit Option Schedule
    Option Name: AFJXNH ADD PATIENTS
    Menu Text: Network Health Exchange Add Patients      TASK ID: 19446
   _____

   QUEUED TO RUN AT WHAT TIME: DEC 26,1995@03:30

DEVICE FOR QUEUED JOB OUTPUT:

 QUEUED TO RUN ON VOLUME SET: JSD

     RESCHEDULING FREQUENCY: 1D

           TASK PARAMETERS:

           SPECIAL QUEUEING:
```

Figure 4-1: Sample dialogue from the AFJXNH ADD PATIENTS option

If you wish more detailed information, please refer to the "Menu Manager Options" topic in the *Kernel Systems Manaul*.

Records for patients in the database.with an SSN containing five leading 0s (zeroes), two leading EEs or ZZs or a P will not be sent across to other sites.

Network Health Exchange Nightly Purge Option	[AFJXNH PURGE NIGHTLY]

This routine purges messages each night from the NETWORK,HEALTH EXCHANGE mailbox.

```
NAME: AFJXNH PURGE NIGHTLY
MENU TEXT: Network Health Exchange Nightly Purge
TYPE: run routine                    CREATOR: POSTMASTER
PACKAGE: NETWORK HEALTH EXCHANGE
DESCRIPTION:   PURGE MESSAGES NIGHTLY FROM MAILBOX OF NETWORK HEALTH EXCHANGE
GENERIC USER.
ROUTINE: AFJXPNHX
UPPERCASE MENU TEXT: NETWORK HEALTH EXCHANGE NIGHTLY
PURGE
```

From the Systems Manager Menu, choose Taskman Management, Schedule/ Unschedule Options, then the AFJXNH PURGE NIGHTLY option. Your computer dialogue should look similar to this:

```
Select Systems Manager Menu Option: TASK <Enter> man Management


         Schedule/Unschedule Options
         One-time Option Queue
         Taskman Management Utilities ...
         List Tasks
         Dequeue Tasks
         Requeue Tasks
         Delete Tasks
         Print Options that are Scheduled to run
         Cleanup Task List
         Print Options Recommended for Queueing

Select Taskman Management Option: SCHE <Enter> dule/Unschedule Options

Select OPTION to schedule or reschedule: AFJXNH PURGE NIGHTLY Network Health
Exchange Purge Nightly
         ...OK? Yes// <Enter>  (Yes)
      (R)


                         Edit Option Schedule
    Option Name: AFJXNH PURGE NIGHTLY
    Menu Text: Network Health Exchange Purge Nightly     TASK ID: 19446
  _____

  QUEUED TO RUN AT WHAT TIME: DEC 26,1995@03:30

DEVICE FOR QUEUED JOB OUTPUT:

 QUEUED TO RUN ON VOLUME SET: JSD

     RESCHEDULING FREQUENCY: 1D

           TASK PARAMETERS:

           SPECIAL QUEUEING:
```

Figure 4-2: Sample dialogue from the AFJXNH PURGE NIGHTLY option

ⓘ   If you wish more detailed information, please refer to the "Menu Manager Options" topic in the *Kernel Systems Manaul*.

Network Health Patient Server Option | [AFJXNETP]

This routine runs as a background job, at night when the VistA system is less busy than during normal business hours. It takes a bulletin from the nightly Add Patient task and attempts to add the patient to the VAMC NETWORK PATIENT file (#537010).

```
NAME: AFJXNETP
MENU TEXT: Network Health Patient Server
TYPE: server                            CREATOR: POSTMASTER
PACKAGE: NETWORK HEALTH EXCHANGE
DESCRIPTION:   TAKES BULLETIN FROM NIGHTLY ADD PATIENT TASK AND ATTEMPTS TO ADD
PATIENT TO FILE 537010.
ROUTINE: AFJXPNHT                        SERVER ACTION: RUN IMMEDIATELY
SERVER AUDIT: NO                         SUPRESS BULLETIN: YES, SUPRESS IT
SERVER REPLY: NO REPLY (DEFAULT)
UPPERCASE MENU TEXT: NETWORK HEALTH PATIENT SERVER
```

> ⓘ To maximize efficiency, you may want to create a resource device that the server will use. This enables you to limit the number of jobs that are running from the server. For a description of how this is done, see the "Setting Up a Resource Device" topic in the "Installation Procedures" section of the *Network Health Exchange Installation Guide*.

Network Health Exchange Alert Send Server Option | [AFJXNHDONE]

This routine sends an alert back to the user that a request is complete and allows the user to print or view onscreen the requested clinical data.

```
NAME: AFJXNHDONE
MENU TEXT: Network Health Exchange Alert Send Server
TYPE: server                            CREATOR: POSTMASTER
PACKAGE: NETWORK HEALTH EXCHANGE
DESCRIPTION:   SEND ALERT BACK TO USER THAT REQUEST IS COMPLETE AND ALLOW TO PRINT
ROUTINE: AFJXSFAL                        SERVER ACTION: RUN IMMEDIATELY
SERVER AUDIT: NO                         SUPRESS BULLETIN: YES, SUPRESS IT
SERVER REPLY: NO REPLY (DEFAULT)
UPPERCASE MENU TEXT: NETWORK HEALTH EXCHANGE ALERT
SERVER
```

Network Health Exchange Data Server Option   [AFJXSERVER]

Option for server for patient data request. This will process the request.

```
NAME: AFJXSERVER
MENU TEXT: Network Health Exchange Data Server
TYPE: server                            CREATOR: POSTMASTER
PACKAGE: NETWORK HEALTH EXCHANGE
DESCRIPTION:   OPTION FOR SERVER FOR PATIENT DATA REQUEST. THIS WILL PROCESS THE
REQUEST.
ROUTINE: AFJXALRT                       SERVER BULLETIN: XQSERVER
SERVER ACTION: RUN IMMEDIATELY          SERVER AUDIT: NO
SUPRESS BULLETIN: YES, SUPRESS IT       SERVER REPLY: NO REPLY (DEFAULT)
UPPERCASE MENU TEXT: NETWORK HEALTH EXCHANGE DATA SERVER
```

Records for Sensitive Patients

Requests for information on sensitive patients are tracked and recorded in order to protect the restricted nature of those records.

A user who requests information for a sensitive patient will see a message like the following:

```
                            WARNING
                       RESTRICTED RECORD
**************************************************************************
*   This record is protected by the Privacy Act of 1974.  If you elect     *
*   to proceed, you will be required to prove you have a ned to know.       
*   Accessing this patient is tracked, and your station Security Officer  *
*   will contact you for your justification.                              *
**************************************************************************


Do you want to continue processing this patient record?  No//
```

Figure 4-3: Sample warning message displayed to users requesting information on a sensitive patient record

When a user requests sensitive patient information, it causes a Sensitive Record Accessed bulletin to be sent to the mailgroup which ordinarily receives Sensitive Patient bulletins. The bulletin will be similar to one of the following:

```
Subj: NETWORK HEALTH EXCHANGE REQUESTED FOR SENSITIVE PATIENT  [#35313]
22 Feb 96 17:04  6 Lines
From: POSTMASTER  in 'IN' basket.   Page 1  **NEW**
-----------------------------------------------------------------------------

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
         SENSITIVE PATIENT DATA REQUESTED
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

Data for SENSITIVE patient: NHEPATIENT,FOURTEEN  NNNNNNNNN
has been requested by:   NHEUSER,THREE@VAMC.SITE.VA.GOV
```

Figure 4-4: Sample Sensitive Record Accessed bulletin (1 of 2)

```
Subj: RESTRICTED PATIENT RECORD ACCESSED  [#35296] 22 Feb 96 16:58  5 Lines
From: USER,THREE  in 'IN' basket.   Page 1  **NEW**
-----------------------------------------------------------------------------

The following sensitive patient record has been accessed:

  Patient Name: NHEPATIENT,FOURTEEN
  Soc Sec Num : NNNNNNNNN
  Option Used : Network Health Exchange Options ...
```

Figure 4-5: Sample Sensitive Record Accessed bulletin (2 of 2)

Glossary

The glossary contains basic terms, acronyms, and definitions used throughout the VistA system, as well as terms specific to the NHE software.

ADPAC	Automated Data Processing (ADP) Application Coordinator (see Application Coordinator, below).
ALERTS	Brief on-line notices that are issued to users as they complete a cycle through the menu system. Alerts are designed to provide interactive notification of pending computing activities, such as the need to reorder supplies or review a patient's clinical test results. Along with the alert message is an indication that the View Alerts common option should be chosen to take further action.
APPLICATION COORDINATOR	Designated individuals responsible for user-level management and maintenance of a software application (e.g., Laboratory). Also abbreviated as ADPAC (ADP Application Coordinator).
BULLETINS	Electronic mail messages that are automatically delivered by MailMan under certain conditions. For example, a bulletin can be set up to fire when database changes occur, such as adding a record to the file of users. Bulletins are fired by bulletin-type cross references.
EXTRACTOR	A specialized routine designed to scan data files and copy or summarize data for use by another process.
FREE TEXT	A type of data field whose permissible values are any combination of numbers, letters, and symbols.
IDCU	The Integrated Data Communications Utility, a wide area network used by VA to interconnect computers for transmitting data between VA sites.
INTERNAL ENTRY NUMBER (IEN)	The number used to identify an entry within a file. Every record has a unique internal entry number.
IRM	Information Resource Management. A service at VA medical centers responsible for computer management and system security.
ISO	Information Security Officer. Person responsible for information security at each VA Medical Center. Works in conjunction with Regional Security Officers (RISOs).
MAIL MESSAGE	An entry in the MESSAGE file (#3.9). The VistA electronic mail system (MailMan) supports local and remote networking of messages.
MAS	Medical Administration Service.
MIRMO	Medical Information Resources Management Office.
MIS	Management Information System.
NATIONAL NETWORK HEALTH EXCHANGE (NHE) REGISTRY	This VistA software consists of two major components: 1) a local registry for use within a VA health care facility, and 2) a National Registry reflecting the events of care for patients at all VA facilities.

RISO	Regional Information Security Officer. Regional representative of VA Medical Center Information Security Officers (ISOs).
SECURE MENU DELEGATION (SMD)	A controlled system whereby menus and keys can be allocated by people other than IRM staff, such as application coordinators, who have been so authorized.

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

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

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

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

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