

Department of Veterans Affairs

Emergency Department Integration Software (EDIS)

EDIS v2.1

Server Installation Guide



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Table of Contents

1. OVERVIEW.....	4
1.1. Recommended Audience	4
1.2 About this Guide	4
1.3 Document Conventions.....	4
2. REFERENCED DOCUMENTS	4
3. BEFORE BEGINNING THE UPDATE.....	5
3.1. Retrieve the EDP2_0.KID Host File.....	5
3.2. VistA Download Site download.vista.med.va.gov anonymous.softwareCheck VistA Software Requirements	6
3.3. Check the 230-234 Number Space.....	6
3.3.1. Place and Protect New Globals	7
3.3.2. Namespace and Number Space	7
4. INSTALLING M SERVER COMPONENTS.....	7
4.1. Install the Emergency Department Version 2.0, Host File EDP2_0.KID	7
4.2. Edit the EDPF LOCATION Parameter	8
4.3. Edit the EDPF NURSE STAFF SCREEN Parameter.....	8
4.4. Install and Configure VistALink for EDIS.....	9
4.4.1. Check the Status of Your Site's VistALink Listener	9
4.4.2. Send VistALink Connector Information to the National Server EDIS Administrators or Support Staff	9
5. POST INSTALLATION	9
5.1. Rebuild Menus	9
5.1.1. Assign Menu Options	10
5.1.2. Rebuild Menu Trees.....	10
5.2. Assign Options for Emergency Department Users.....	11
5.3. Assign Keys for EDIS Users	12
5.4. Fixing the Primary/Secondary Status of a Bed	13
5.4.1. Re-Index Files 230 & 231.8	14
6. CONFIGURE EDIS TO WORK WITH OTHER APPLICATIONS.....	14
6.1. Configure EDIS to Work with Omnicell	14
7. ACRONYMS.....	15

List of Tables

TABLE 1: TYPES OF DOCUMENTATION	5
TABLE 2: GLOBAL FILES	7

1. Overview

Emergency Department Integration Software (EDIS) was a response to New Service Request (NSR) 20070511. The main objective of EDIS v2.1, (EDP2_0.KID) is to provide an updated solution for modeling emergency department operation, and for monitoring, creating alerts and maintaining process records of operation. Data shall be provided in real time to physicians, nurses and managers as indicators of the patient's condition and care needs of patients. Information can also be provided in retrospect to administrators as indicators of the effectiveness and quality of performance of health care processes.

The solution focuses on modeling, monitoring and providing alerts in the format that is primarily determined by VistA/CPRS. As feasible, the solution will make use of user interfaces provided by VistA/CPRS, including screens for patient records and orders, and also including functionality included in applications developed at medical centers. The EDIS solution exchanges data with VistA to leverage the information stored by other applications such as Labs, X-rat, etc.

1.1. Recommended Audience

This guide provides information specifically for Department of Veterans Affairs Medical Center (VAMC) information resource management (IRM) staff to facilitate the ability to install and configure their systems to run EDIS.

1.2 About this Guide

This installation guide provides instructions for installing application components that run on M servers at VAMC facilities. It also provides instructions for performing post-installation tasks—including configuration tasks—that require knowledge of the underlying VistA system.

1.3 Document Conventions

Bold type indicates application elements (views, panes, links, buttons, prompts, and text boxes, for example) and keyboard key names.

Keyboard key names appear in angle brackets < >.

Italicized text indicates special emphasis or user responses.

ALL CAPS indicates M routines, parameters, and option names.

Dot-dash-dot borders indicate excerpted text (from other documents or from applications).

2. Referenced Documents

Updated documentation describing the new functionality introduced by this patch is available. The preferred method is to FTP the files from <ftp://download.vista.med.va.gov/>. This transmits the files from the first available FTP server. Sites may also elect to retrieve software directly from a specific server as follows:

- Albany ftp.fo-albany.med.va.gov <ftp://ftp.fo-albany.med.va.gov>
- Hines ftp.fo-hines.med.va.gov <ftp://ftp.fo-hines.med.va.gov>
- Salt Lake City ftp.fo-slc.med.va.gov <ftp://ftp.fo-slc.med.va.gov>

Documentation can also be found on the VA Software Documentation Library at:
<http://www4.va.gov/vdl/>

Table 1: Types of Documentation

Title	File Name	FTP Mode
EDP_2.1_SrvrIG.PDF	Emergency Department Integration Software Version 2.1 Server Installation Guide	Binary
EDP_2.1_TM.PDF	Emergency Department Integration Software Version 2.1 Technical Manual	Binary
EDP_2.1_UM.PDF	Emergency Department Integration Software Version 2.1 User Guide	Binary
EDP_2.1_ClientIG.PDF	Emergency Department Integration Software Version 2.1 Client Installation Guide	Binary
EDP_2.1_Glossary.PDF	Emergency Department Integration Software Version 2.1 Glossary	Binary

3. Before Beginning the Update

3.1. Retrieve the EDP2_0.KID Host File

Note: The EDP .ear file for the Graphical User Interface will show a version of 2.1, while the Host File for Vista will show a version of 2.0. This is okay and should not be a reason for concern. The application guides will appear with version 2.1.

****Use ASCII when transferring the .KID file.****

The EDP2_0.KID file contains all the files necessary to install the EDIS in Vista. If a new or additional Big Board is being installed, please refer to the EDIS 1.0 Installation Guide for details.

These files are available in the Office of Information Field Office (OIFO) ANONYMOUS.SOFTWARE directories listed below:

File Name	Contents	Retrieval Format
-----	-----	-----
EDP2_0.KID	KIDS Build	ASCII

The file listed above may be obtained via FTP. The preferred method is to FTP the files from:

download.vista.med.va.gov

This transmits the files from the first available FTP server. Sites may also elect to retrieve software directly from a specific server as follows:

OIFO	FTP Address	Directory
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-----	-----	-----
Albany	ftp.fo-albany.med.va.gov	anonymous.software
Hines	ftp.fo-hines.med.va.gov	anonymous.software
Salt Lake City	ftp.fo-slc.med.va.gov	anonymous.software

3.2. VistA Download Site download.vista.med.va.gov anonymous.softwareCheck VistA Software Requirements

EDIS uses the following packages, which must be installed and fully patched in your accounts:

- CPRS 26 (OR*3.0*215) or greater
- VistALink 1.6 or greater
- Kernel Patch XU*8.0*451
- EDP 1.0

3.3. Check the 230-234 Number Space

If your site has local files that are stored in the EDIS number space (230-234), remove the files *before* you install EDIS. Do this in your site's test and production VistA accounts.

3.3.1. Place and Protect New Globals

The EDIS KIDS (Kernel Installation and Distribution System) build creates files in the following globals:

Table 2: Global Files

Global	Type	Comments	Placement	Journal	Protection
EDP	Dynamic	This global will grow at a yearly rate of about 2000 bytes multiplied by the number of emergency visits per year. For example, 12,000 emergency visits per year will increase the global yearly by about 24 MB	Place the EDP global in a volume set that is large enough to accommodate this kind of growth	Yes	RWP or D
EDPB	Static	This global should remain fairly small—its size is currently about 50K	Place the EDPB global as desired	Yes	RWP or D

3.3.2. Namespace and Number Space

The namespace for EDIS is *EDP*. The number space is *230-234*.

4. Installing M Server Components

4.1. Install the Emergency Department Version 2.0, Host File EDP2_0.KID

Follow these instructions to install the EDIS Host File. Installation time is less than one minute.

1. From the Kernel Installation and Distribution System Menu, select the Installation Menu and Locate the EDIS V2.0 Host File(EDP2_0.KID) within your VISTA system.

Select Installation Option: Load a Distribution

Enter a Host File: (e.g., "SYS\$USER:[XXX]EDP2_0.KID)

2. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME enter the Build of EDP 2.0.

3. Use the Install Package(s) option and select the package of EDP 2.0'.
 - a. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install?' NO//, answer NO.
 - b. When prompted 'Want KIDS to INHIBIT LOGONs during the install?' NO//, answer NO.
 - c. When prompted 'Want to DISABLE Scheduled Options and Menu Options and Protocols?' NO//, answer NO.

4. If prompted "Delay Install (Minutes): (0 - 60): 0// respond 0.

4.2. Edit the EDPF LOCATION Parameter

This parameter should contain the hospital location or locations that your emergency department uses. If you have a multi-division site, make an entry for each division.

1. Log in to Vista.
2. At the Select **OPTION NAME** prompt, type *xpar menu* (for **XPAR MENU TOOLS**) and then press the <Enter> key.
3. At the **Select General Parameter Tools Option** prompt, type *ep* (for **Edit Parameters**) and then press the <Enter> key.
4. At the **Select PARAMETER DEFINITION NAME** prompt, type *edpfl* (for **EDPF LOCATION**), and then press the <Enter> key.
5. At the **Select INSTITUTION NAME** prompt, type the name or station number of your institution and then press the <Enter> key.
6. At the **Select Time Range (ex. 0800-1200) or Sequence** prompt, type the time range during which the clinic location you are about to select functions as your site's emergency department. Use military time. For example, if the location serves as your site's emergency department from 8:00 a.m. to 5:00 p.m., type *0800-1700*. Alternately, type a number that represents the location's preference rating (the number *1* represents the most-preferred location). Press the <Enter> key. When users create a PCE encounter, EDIS uses time-of-day-based or preference-based criteria to determine the encounter's location.

When selecting time ranges, be sure to account for all hours of emergency-department operation. EDIS does not create PCE encounters for patients whom users enter during times that you do not include in the EDPF LOCATION parameter. For example, suppose you set the parameter to use Clinic A from 0700 to 0800 hours and Clinic B from 0900 to 1200 hours. If a user then adds a patient at 0830 hours, EDIS will not create a PCE encounter for the patient. Further, take care not to overlap hours. In cases where hours overlap, EDIS always creates the patient's PCE encounter for the first clinic.

*EDIS uses the time and preference settings you specify here to populate its **Clinic** list when you select the **Show clinics on entry form** check box in the application's **Configure** view. This parameter allows users at sites that have multiple emergency-department locations to select the location EDIS will use when it creates the patient's emergency-department visit in CPRS.*

Vista displays your new time range or selection as a default value. Press the <Enter> key to accept this default value.

At the **ED LOCATION** prompt, type the name of the location that serves as your site's emergency department during this time range or for this sequence and press the <Enter> key. Repeat steps 6 through 8 for additional emergency-department locations (if any).

4.3. Edit the EDPF NURSE STAFF SCREEN Parameter

The EDPF NURSE STAFF SCREEN parameter allows you to select the type of filtering EDIS uses to populate the nursing-staff selection list in its **Assign Staff** view. By default, the application allows all entries in the New Person (#200) file. Options for narrowing the list of possible staff selections include:

- Allow only persons who are present and active in the NURS STAFF file (#210)

- Allow only persons who hold the ORELSE key
 - Allow only persons who hold the PSJ RNURSE key
 - Allow selection from all entries in the New Person file (#200)
1. Log in to VistA
 2. At the Select **OPTION NAME** prompt, type *xpar menu* (for **XPAR MENU TOOLS**) and then press the <Enter> key.
 3. At the **Select OPTION NAME** prompt, type *xpar edit parameter* and press the <Enter> key.
 4. At the **Select PARAMETER DEFINITION NAME** prompt, type *edpf nurse staff* and press the <Enter> key.
 5. At the **Enter selection** prompt, type the number 3 (for **Division**) and press the <Enter> key. If your site has only one division, you can set this parameter at the system level by typing the number 5 (for **System**).
 6. At the **Select INSTITUTION NAME** prompt, type your institution's name and then press the <Enter> key. VistA displays a list of criteria that EDIS can use to filter entries in the New Person (#200) file.
 7. At the **Allow Persons** prompt, type one of the following numbers to select a screening criterion and then press the <Enter> key:
 - i. 0 (**Active in NURS STAFF (210)**)
 - ii. 1 (**Hold ORELSE Key**)
 - iii. 2 (**Hold PSJ RNURSE Key**)
 - iv. 3 (**All Persons (No Screen)**)

4.4. Install and Configure VistALink for EDIS

4.4.1. Check the Status of Your Site's VistALink Listener

4.4.2. Send VistALink Connector Information to the National Server EDIS Administrators or Support Staff

The next step is to send the following information to the EDIS administrator. **VA Policy: You must send this information securely via public key infrastructure (PKI).** Securely send this information for both the VistALink connector on your test VistA system and the VistALink connector on your production VistA system.

- The IP name for your site's VistA server (i.e. **ecp.vista.med.va.gov**)
- The IP address and port number of your site's VistALink listener (i.e. **10.10.10.10:18123**)
- The access code for the VistALink connector (i.e. **1234abc**)
- The verify code for the VistALink connector (i.e. **5678abc!**)

5. Post Installation

5.1. Rebuild Menus

The KIDS installation process does not rebuild VistA menu trees *before* you assign new EDIS menus. You must therefore perform a menu rebuild *after* you assign these menus *for the first time*. If you do not, graphical user interface (GUI) applications like EDIS won't know who has access to the new options. Again, performing a menu rebuild is necessary only once for menus that have never before been assigned.

The EDIS project team recommends that you assign the EDPF TRACKING MENU ALL option to the CAC or ED coordinator—which includes all EDIS menus—and then manually rebuild VistA menu trees.

5.1.1. Assign Menu Options

1. Log in to VistA.
2. At the **Select OPTION NAME** prompt, type *eve* and then press the <Enter> key.
3. At the **Choose 1-5** prompt, type the number *1* (for **EVE Systems Manager Menu**) and press the <Enter> key.
4. At the **Select Systems Manager Menu Option** prompt, type *user* (for **User Management**) and press the <Enter> key.
5. At the **Select User Management Option** prompt, type *edit* (for **Edit an Existing User**) and press the <Enter> key.
6. At the **Select NEW PERSON NAME** prompt, type your (or another user's) name using the following format: lastname, firstname. Press the <Enter> key.
7. Press the <Down Arrow> key to highlight the **Select SECONDARY MENU OPTIONS** field. (Type a question mark (?) to see a list of the secondary options that are currently assigned to you.)
8. In the **Select SECONDARY MENU OPTIONS** field, type *EDPF TRACKING MENU ALL* and then press the <Enter> key.
9. At the **Are you adding ...as a new SECONDARY MENU OPTIONS (the...for this NEW PERSON)? No//** prompt, type *Yes* and press the <Enter> key.
10. Press the <Enter> key again to accept this new option. In the **SYNONYM** field, type a synonym for the option (optional). Press the <Enter> key.
11. Press the <Enter> key to close the **COMMAND** field and return to the **Select SECONDARY MENU OPTIONS** field.
12. Type the word *exit* in the **COMMAND** field.
13. At the **Save changes before leaving form (Y/N)?** Prompt, type the letter *Y* and press the <Enter> key.

5.1.2. Rebuild Menu Trees

1. Log in to VistA.
2. At the **Select OPTION NAME** prompt, type *eve* and then press the <Enter> key.
3. At the **Choose 1-5** prompt, type the number *1* (for **EVE Systems Manager Menu**) and press the <Enter> key.
4. At the **Select Systems Manager Menu Option** prompt, type the word *menu* (for **Menu Management**) and press the <Enter> key.
5. At the **Select Menu Management Option** prompt, type the word *menu* (for **Menu Rebuild Menu**) and press the <Enter> key.
6. At the **Select Menu Rebuild Menu Option** prompt, type the word *build* (for **Build Primary Menu Trees**) and press the <Enter> key.
7. At the **Do you wish to verify each primary menu? NO//** prompt, press the <Enter> key to accept the default selection.
8. At the **Would you like to build secondary menu trees too? YES//** prompt, press the <Enter> key to accept the default selection.

Note: If you type **NO** in response to this question, VistA will remove access to all EDIS options for all users.

9. At the **Would you like to queue this job? YES//** prompt, press the <Enter> key to accept the default selection. If you want to run the job immediately, type **NO**, and then press the <Enter> key. If you choose the latter option, be advised that running a menu rebuild can take time.

10. At the **Requested Start Time: NOW//** prompt, press the <**Enter**> key to accept the default selection.
11. After the system runs the menu rebuild, remove the menu options you don't need.

5.2. Assign Options for Emergency Department Users

You must assign to users and clinical application coordinators (CACs) at least one of the following secondary menu options. These options provide rudimentary capabilities for limiting application access based on user roles. The EDIS project team recommends working with your site's emergency-department administrative and IT staff to determine which users should receive which menu options.

- EDIS HOME PAGE with all buttons active provides access to:
 1. **CPE**
 2. **Configure**
 3. **Edit Closed**
 4. **Assign Staff**
 5. **Reports**
 6. **Display Board**
- EDPF TRACKING MENU CLINICIAN: provides access to the **CPE** views—it includes the ability to remove patients from the board and provides access to the following data-entry fields:
 1. **Room/Area**
 2. **Status**
 3. **Provider, Resident, and Nurse staff-assignment lists**
 4. **Comments**
 5. **Disposition**
 6. **Delay Reason (if the Delay reason is required...parameter is enabled)**
 7. **Diagnosis**
- EDPF TRACKING VIEW CONFIGURE: provides access to the **Configure** view—which includes the ability to configure rooms and areas, colors, one or multiple display boards, site-configurable parameters, and the contents of application pick lists
- EDPF TRACKING VIEW EDIT CLOSED: provides access to the **Edit Closed** view, which includes the ability to edit all data-entry fields for closed visits; the EDIS project team recommends limiting access to this view
- EDPF TRACKING VIEW REPORTS: provides access to the **Reports** view, which includes the ability to run administrative reports; separate keys control user access to export and print privileges, and to limited-access reports (See Section 5.3, "[Assign Keys for EDIS Users](#)")
- EDPF TRACKING VIEW STAFF: provides access to the **Assign Staff** view—it offers the ability to update physician-, resident-, and nursing-staff pick lists

To reiterate: work with your site's IT Staff and emergency-department managers to gather a list of EDIS users and determine which views each user needs. Assign to each user only views he or she needs.

1. Log in to VistA.

2. At the **Select OPTION NAME** prompt type **EVE** and then press the **<Enter>** key.
3. From the **Choose 1-5** prompt, type the number 1 (for **EVE Systems Manager Menu**) and press the **<Enter>** key.
4. From the **Select Systems Manager Menu Option** prompt, type User Management and press the **<Enter>** key.
5. From the **Select User Management Option prompt**, types edit (for Edit an Existing User) and press the **<Enter>** key.
6. From the **Select NEW PERSON NAME prompt**, type the user's name using the following format: lastname, firstname. Press the **<Enter>** key.
7. Press the **<Down Arrow>** key to highlight the **Select SECONDARY MENU OPTIONS** field. (Type a question mark (?) to see a list of the secondary options that are currently assigned to the user.)
8. In the **SECONDARY MENU OPTIONS** field, type one of the options listed above and then press the **<Enter>** key.
9. From the Are you adding ...as a new **SECONDARY MENU OPTIONS** (the...for this NEW PERSON)? No// prompt, type **Yes** and press the **<Enter>** key.
10. Press the **<Enter>** key again to accept this new option.
11. In the **SYNONYM** field, type a synonym for the option (optional). Press the **<Enter>** key.
12. Press the **<Enter>** key to close the **COMMAND** field and return to the Select **SECONDARY MENU OPTIONS** field.
13. Repeat steps 6 through 12 to assign other options as necessary.
14. Press the **<Down Arrow>** key to move through the Edit Existing User dialog. At the end of each page, type the letter n in the **COMMAND** field to enter the following page.
15. Stop on page 3.
16. Check the user's person class, which appears on page 3, to make sure the user's person class is **active**. Note: The active person class is only needed for the Providers.
17. If the user's person class is not active, **select an active person class** for the user.
18. When you have entered all applicable secondary menu options and verified that the user has an active person class, type the word **Exit** in the **COMMAND** field.
19. From the Save changes before leaving form (Y/N)? prompt, type the letter **Y** and press the **<Enter>** key.

5.3. Assign Keys for EDIS Users

Assign keys for users who need access to additional reporting capabilities. The following keys are available:

- **EDPR EXPORT** enables the export option for EDIS reports
 - **EDPR PROVIDER** allows users to access to the Provider report, which lists statistics for each emergency department provider
 - **EDPR XREF** provides access to the Patient XRef (cross reference) report, which associates patients' emergency department visit numbers with their patient IDs
1. Log in to VistA
 2. At the **Select OPTION NAME** prompt, type *eve* and then press the <Enter> key.
 3. At the **Choose 1-5** prompt, type the number *1* (for **EVE Systems Manager Menu**) and then press the <Enter> key.
 4. At the **Select Systems Manager Menu Option** prompt, type *menu* (for **Menu Management**) and then press the <Enter> key.
 5. At the **Select Menu Management Option** prompt, type the word *key* (for **Key Management**) and then press the <Enter> key. .
 6. At the **Select Key Management Option** prompt, type the word *allocation* (for **Allocation of Security Keys**). Press the <Enter> key.
 7. At the **Allocate key** prompt, type the name of the security key you want to assign—*EDPF EXPORT*, for example. Press the <Enter> key.
 8. At the **Holder of key** prompt, type the name of the first user to whom you are assigning the key and then press the <Enter> key.
 9. At the **Another holder** prompt, type the name of a second user to whom you are assigning the key and then press the <Enter> key. Repeat this step for all users to whom you are assigning the key.
 10. At the **You are allocating keys. Do you wish to proceed? YES//** prompt, press the <Enter> key to accept the default response.

5.4. Fixing the Primary/Secondary Status of a Bed

During testing, a problem with the Primary/Secondary status of beds at some facilities was identified. In the event a site was a 'test' site for EDP*1*2, there is a good chance that many beds could be currently marked as 'Secondary'. This creates problems with beds being released when a patient is discharged. In order to ensure that all beds are set to 'Primary', follow these steps.

In file Manager:

Select OPTION: ENTER OR EDIT FILE ENTRIES

INPUT TO WHAT FILE: TRACKING ROOM-BED <-- choose the TRACKING ROOM/BED file (#231.8)
EDIT WHICH FIELD: ALL// .13 PRIMARY <-- choose field .13 (Primary)
THEN EDIT FIELD:

Select TRACKING ROOM-BED NAME: BWF-TEST-1 <--- enter the name of the bed
PRIMARY: P Primary <--- choose 'P' for primary (only if bed is set to secondary)

Repeat above steps for any beds that are listed as 'Secondary'.

5.4.1. Re-Index Files 230 & 231.8

Re-index ALL indices on files 230 and 231.8. It is suggested that this be done during non-peak hours to limit performance impact for users.

VA FileMan 22.0

Select OPTION: UTILITY FUNCTIONS
Select UTILITY OPTION: RE-INDEX FILE

MODIFY WHAT FILE: TRACKING ROOM-BED// 230 ED LOG (example)

THERE ARE 23 INDICES WITHIN THIS FILE
DO YOU WISH TO RE-CROSS-REFERENCE ONE PARTICULAR INDEX? No// (No)
OK, ARE YOU SURE YOU WANT TO KILL OFF THE EXISTING 23 INDICES? No// Y (Yes)
DO YOU THEN WANT TO 'RE-CROSS-REFERENCE'? Yes// (Yes)
...EXCUSE ME, JUST A MOMENT PLEASE...
FILE WILL NOW BE 'RE-CROSS-REFERENCED'.....

VA FileMan 22.0

Select OPTION: UTILITY FUNCTIONS
Select UTILITY OPTION: RE-INDEX FILE

MODIFY WHAT FILE: ED LOG// 231.8 TRACKING ROOM-BED (example)

THERE ARE 3 INDICES WITHIN THIS FILE
DO YOU WISH TO RE-CROSS-REFERENCE ONE PARTICULAR INDEX? No// (No)
OK, ARE YOU SURE YOU WANT TO KILL OFF THE EXISTING 3 INDICES? No// Y (Yes)
DO YOU THEN WANT TO 'RE-CROSS-REFERENCE'? Yes// (Yes)
...HMMM, THIS MAY TAKE A FEW MOMENTS...
FILE WILL NOW BE 'RE-CROSS-REFERENCED'....

6. Configure EDIS to work with other Applications

6.1. Configure EDIS to Work with Omnicell

If your site wants EDIS to work with its Omnicell implementation, you must manually add the Omnicell event protocol (VEFS SDAM) to the EDIS EDP NEW PATIENT event. If you are already running EDIS Version 1.0, please review the below configuration to be certain nothing has changed.

1. Open **VA FileMan**.
2. At the **Select OPTION** prompt, type the number *1* (**ENTER OR EDIT FILE ENTRIES**).
3. At the **INPUT TO WHAT FILE** prompt, type the word *protocol* (**PROTOCOL**).
4. At the **EDIT WHICH FIELD** prompt, type the word *item*.
5. At the **CHOOSE 1–2** prompt, type the number *1* (**ITEM (multiple)**).

6. At the **EDIT WHICH ITEM SUB-FIELD** prompt, press the <Enter> key to accept the default response (**ALL**).
7. At the **THEN EDIT FIELD** prompt, press the <Enter> key without typing a response.
8. At the **Select PROTOCOL NAME** prompt, type *EDP NEW PATIENT*.
9. At the **Select ITEM** prompt, type *VEFS SDAM* (the Omnicell event protocol). You don't need to respond to prompts for other fields in the **ITEM** multiple.

7. Acronyms

Acronym	Definition
AMS	Medical Automation Systems
CACs	Clinical Application Coordinator
CPE	Clinical Practice Environment
CPRS	Computerized Patient System Records
ED	Emergency Department
EDIS	Emergency Department Integration Software
EDP	Namespace for EDIS
ER	Emergency Room
EVE	Client Server Program – Systems Manager
GUI	Graphical User Interface
GPO	Group Policy Objects
GTS	Generic Traffic Shaping
IE	Internet Explorer
IP	Internet Protocol
IRM	Information Resource Management
JAWS	Job Access with Speech
KIDS	Kernel Installation and Distribution System
LCD	Liquid Crystal Display
NSR	National Service Request
PCE	Patient Care Encounters
PKI	Public Key Infrastructure
POC	Point-of-Care
RAM	Random Access Memory
RALS	Point of Care IT Connectivity System
SSL	Secure Sockets Layer
VA	Veterans Affairs
VAMC	Veterans Affairs Medical Center

Acronym	Definition
VISN	Veterans Integrated Services Network
VistA	Veterans Health Information Systems and Technology Architecture
VDL	VistA Documentation Library