PATIENT DATA EXCHANGE (PDX)

RELEASE NOTES & INSTALLATION GUIDE

Version 1.5

November 1993

Revised January 2005

Department of Veterans Affairs
VistA Health Systems Design & Development (HSD&D)
Infrastructure and Security Services (ISS)

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
11/1993	1.0	Initial Patient Data Exchange V. 1.5 software documentation creation.	Albany, NY OIFO
01/10/05	2.0	Reformatted document to follow ISS styles and guidelines, no other content updates made. Reviewed document and edited for the "Data Scrubbing" and the "PDF 508 Compliance" projects. **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: NHEPATIENT,[N] or NHEUSER,[N] respectively, where the N is a number written out and incremented with each new entry (e.g., NHEPATIENT, ONE, NHEPATIENT, TWO, etc.). • Other personal demographic-related data (e.g., addresses, phones, IP addresses, etc.) were also changed to be generic. **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 installation and use of the Patient Data Exchange (PDX) software within Veterans Health Information Systems and Technology Architecture (VistA) Infrastructure and Security Services (ISS) software products.

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 Patient Data Exchange (PDX) 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 Patient Data Exchange (PDX) documentation should consult the following:

- *Patient Data Exchange (PDX) Installation Guide & Release Notes* (this manual)
- *Patient Data Exchange (PDX) Technical Manual*
- *Patient Data Exchange (PDX) Security Guide*
- *Patient Data Exchange (PDX) User Manual*
- The Patient Data Exchange Home Page at the following Web address:

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

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/

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

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1. Release Notes

User Release Notes

The VistA Patient Data Exchange (PDX) software is a set of modules designed to manage the transfer of patient information (demographics, episode of care, medication, and diagnostic evaluations) between VA Medical Centers using the MailMan electronic mail utility. Once transferred, this information may be combined with pertinent local information and assembled into a coherent composite record.

PDX V. 1.5 still uses the five main functions for sending, receiving, and displaying patient data. PDX V. 1.5 has been totally redesigned using the List Manager for the user interface. A new file design was implemented to ease the move to an HL7 messaging architecture.

Functionality Changes

A. The biggest change is in the user interface. PDX V. 1.5 uses the List Manager extensively. The List Manager is a tool designed to display a list of items to the user. It allows the user to browse back and forth through the items one at a time or by screen. It also allows the user to select items from the list to perform some kind of action. List Manager was initially released as part of MAS V. 5.2 for the scheduling application. It will be released in its own name space with the PIMS V. 5.3 release. This is the version PDX uses.

B. The other big change is the ability to send/request Health Summary components. Health Summary components are being added to provide clinical information from other facilities. This information will be "display only" and *cannot* be uploaded. The following Health Summary components have been provided.

Adverse Reactions/Allergies	Clinical Warnings	Crisis Notes
Dietetics	Lab Blood Availability	Lab Blood Transfusions
Lab Chemistry & Hematology	Lab Cumulative-Selected	Lab Cumulative-Selected 1
Lab Cumulative-Selected 2	Lab Cumulative-Selected 3	Lab Cumulative-Selected 4
Lab Cytopathology	Lab Microbiology	Lab Microbiology Brief
Lab Orders	Lab Orders Brief	Lab Surgical Pathology
Lab Tests Selected	MAS ADT History	MAS Admissions/Discharges
MAS Clinic Visits Future	MAS Clinic Visits Past	MAS Demographics
MAS Demographics Brief	MAS Disabilities	MAS Discharge Diagnosis
MAS Discharges	MAS Procedures ICD Codes	MAS Surgeries ICD
MAS Transfers	MAS Treating Specialty	Medicine Summary
Orders Current	Pharmacy Intravenous	Pharmacy Outpatient
Pharmacy Unit Dose	Progress Notes	Progress Notes Brief

Radiology Impression	Radiology Profile	Radiology Status
Surgery Reports	Surgery Reports Brief	Vital Signs
Vital Signs Selected		

C. The interface for requesting/sending PDX information provides the ability to place time and occurrence limits on appropriate data segments. When defining the data segment to use, the user will be prompted for time and/or occurrence limits if the data segment is a Health Summary component which requires limits. A default value for each limit will be taken from the VAQ - PARAMETER file which the user may accept or change. Time and occurrence limits will be checked against the maximum values of information the facility is willing to release without user intervention.

D. Other components added as "display only":

- Means Test
- Copay

E. Other segment changes:

- Pharmacy is now two separate components (long and short)
- A PDX prefix was attached to all the V. 1.0 components

F. The ability to send/request a predefined group of segments. PDX V. 1.0 provided the ability to transfer patient demographics and pharmacy data within a single transmission. V. 1.5 will enable the user to request only those segments of data that are of interest to the user. With this capability, users and application programs can limit their request to only Pharmacy, PIMS, Copay, or certain Health Summary data.

G. The ability to send/request data for a patient from multiple sites and multiple segments. In PDX V. 1.0, you did not get the option to select the data you wanted. It was predetermined for you. In V. 1.5, you will be able to select any combination of the components.

H. To expedite user selection of data segments, it will be possible for users to predefine groups of commonly used data segments. These segment groups will work much like mail groups in that the user may enter a group name to select all segments contained in the group.

I. To expedite user selection of facilities, it will be possible to predefine groups of commonly used facilities. These facility groups will work much like mail groups.

J. The ability to request data on behalf of another user. This is a new feature for PDX V. 1.5. It allows multiple people to be notified via a mail message when data is returned. This could be done for people who do not have access to PDX.

K. The ability to include requested information in a mail message. This is a new feature of PDX V. 1.5. It allows the requested data to be included in the notification message. The prompt will allow the input of local mail groups.

L. The ability to authenticate users via electronic signature. This was added as a security measure to ensure the identity of the requester. All users will have to set up an electronic signature.

M. The ability to encrypt data using existing data encryption methods. This was added as an optional security measure. Sites wishing to encrypt certain fields for security reasons will have to turn the flag on and add those fields to the VAQ - ENCRYPTED FIELDS file (#394.73).

N. An application program interface (API) will be provided so that PDX functions can be directly called by other VistA applications.

O. Sensitive Patient—When data pertaining to a sensitive patient is transferred, the data will be treated as sensitive at the receiving facility.

P. A status screen was added to send/request PDX information. The status screen will indicate current information already on file or pending requests for the selected patient. If desired, the user may display information already on file.

Q. The comments on "process external" have been expanded from 80 characters to a word-processing field. This will allow the user to enter as much information as needed.

R. Load/Edit was enhanced by running all patients through the PIMS duplicate check.

S. Display PDX by user—This option will display all current transactions originated by the user.

T. System reports enhanced by providing more predefined and customizable sort. New reports were added showing transactions which require manual processing and transactions which are currently on file.

U. Security keys have been placed on the following options.

#	Mnemonic	Option	Key	Sub Option key
1.	LD	Load/Edit PDX Data	VAQ LOAD	none
2.	PRGE	Purging	VAQ PURGE	none
3.	RPT	System Reports	VAQ RPT	VAQ RPT USER
4.	EDT	PDX Edit Files	none	VAQ EDIT FILE

Table 1-1: PDX options with security keys

Technical Release Notes

The technical release notes outline changes made to Patient Data Exchange (PDX) files, routines, templates, options, mail groups, and bulletins.

Files

PDX V. 1.5 required a full redesign of the file structure. Because of this, the files used in V. 1.0 are being marked for deletion. The following table correlates V. 1.0 files to their V. 1.5 counterparts.

File Name (V 1.0)	File #	File Name (V. 1.5)	File #
PDX TRANSACTION	394	VAQ - TRANSACTION	394.61
PDX DATA	394.1	VAQ - DATA	394.62
PDX PARAMETER	394.2*	VAQ - PARAMETER	394.81
		VAQ - RELEASE GROUP	394.82
PDX STATUS	394.3	VAQ - STATUS	394.85
PDX STATISTICS	394.4	VAQ - WORKLOAD	394.87

Table 1-2: PDX file correlation from version 1.0 to version 1.5

*Information contained in File #394.2 was broken into two files.

When PDX V. 1.5 is installed, information contained in V. 1.0 files will be transferred to the new files. After doing this, V. 1.0 files will be marked for deletion. Deletion of V. 1.0 files will be done during the installation of PDX V. 2.0.

New Files

File Name	File #	Description
VAQ - DATA SEGMENT	394.71	Defines each segment currently supported by PDX
VAQ - ENCRYPTION METHOD	394.72	Defines each encryption method currently supported by PDX
VAQ - ENCRYPTED FIELDS	394.73	Contains all fields that should be encrypted in PDX requests and unsolicited PDXs transmitted by the facility. This file is only active when encryption has been turned on.
VAQ - OUTGOING GROUP	394.83	Contains groups of facilities commonly accessed by PDX
VAQ - SEGMENT GROUP	394.84	Contains groups of data segments commonly referenced by the facility

File Name	File #	Description
VAQ - AUTO-NUMBERING	394.86	Used to implement auto-numbering in PDX. Fields with auto-numbering capability will have an entry in this file.
VAQ - WORK	394.88	Contains the type of work being tracked by the VAQ - WORKLOAD file

Table 1-3: PDX V. 1.5 new files

Routines

PDX V. 1.5 required a full redesign of all routines. Because of this, the routines used in V. 1.0 are being deleted during the install process. The following table provides the routine naming conventions followed for this version.

Functional Area	Namespace
Bulletins	VAQBULxx
Cross-references	VAQXRFxx
Data Display	VAQDISxx
Database Interface	VAQDBIxx
Encryption/Decryption	VAQHSHxx
Exported Routines	VAQPSExx
Inits	VAQIxxxx
Load/Edit PDX Data	VAQLEDxx
Message Administration	VAQADMxx
Message Construction	VAQCONxx
Message Filing	VAQFILxx
Message Parsing	VAQPARxx
Onits	VAQOxxxx
PDX Data Lookup	VAQUPDxx
Post Inits	VAQPSTxx
Process External PDX Request	VAQEXTxx
Purging	VAQPURxx
Request Patient Information	VAQREQxx
Send Unsolicited PDX	VAQUNSxx
System Administration	VAQADSxx

Functional Area	Namespace
User Authentication	VAQAUTxx
User Interface	VAQUINxx
Utility Routines	VAQUTLxx

Table 1-4: Routine naming conventions

The list of V. 1.0 routines being deleted and a complete list of V. 1.5 routines can be found in the "Installation Guide" section and Appendices in this manual.

Templates

A. Print Templates

VAQ PRINT STATS from PDX V. 1.0 is replaced by VAQ WORK-LOAD REPORT. This report is associated with VAQ - WORKLOAD file (#394.87).

The following new print templates have been added:

- VAQ CUR. TRANSACTIONS REPORT — associated with VAQ - TRANSACTION file (#394.61)
- VAQ REQUIRES PROCESSING REPORT — associated with VAQ - TRANSACTION file (#394.61)
- VAQ DATA SEGMENT LIST — associated with VAQ - DATA SEGMENT file (#394.71)

B. Sort Templates

The following templates, all of which are associated with VAQ -WORKLOAD file (#394.87), replace VAQ SORT STATS from PDX V. 1.0.

- VAQ WORK-LOAD BY DATE
- VAQ WORK-LOAD BY FACILITY
- VAQ WORK-LOAD BY PATIENT
- VAQ WORK-LOAD BY WORK

The following new sort templates (all associated with VAQ - TRANSACTION file (#394.61)) have been added.

- VAQ REQUIRES PROCESSING
- VAQ TRANSACTIONS BY AUTHORIZER
- VAQ TRANSACTIONS BY DATE SENT
- VAQ TRANSACTIONS BY FACILITY

- VAQ TRANSACTIONS BY PATIENT
- VAQ TRANSACTIONS BY RECEIPT
- VAQ TRANSACTIONS BY REQUESTOR
- VAQ TRANSACTIONS BY STATUS

C. Input Templates

The following new input templates have been added.

• VAQ EDIT FILE (#394.71)	allow for modification to time and occurrence limits
• VAQ EDIT FILE (#394.73)	allows encrypted fields to be added/edited/deleted
• VAQ EDIT FILE (#394.81)	allows modification to the site's VAQ - PARAMETER
• file (#394.81)	
• VAQ EDIT FILE (#394.82)	allows release groups to be added/edited/deleted
• VAQ EDIT FILE (#394.83)	allows outgoing groups to be added/edited/deleted
• VAQ EDIT FILE (#394.84)	allows all segment groups to be added/edited/deleted
• VAQ EDIT FILE (PRIVATE) (#394.84)	allows private segment groups to be added/edited/deleted
• VAQ EDIT FILE (PUBLIC) (#394.84)	allows public segment groups to be added/edited/deleted

Options

All V. 1.0 options have been deleted except VAQ-PDX-SERVER and VAQ PDX PURGE.

For a list of deleted options, please refer to Table 2-3: Obsolete/Deleted PDX options in the "Installation Guide" section of this manual.

The new options are as follows.

- VAQ (EDIT) ENCRY FIELD
- VAQ (EDIT) MAX LIMITS
- VAQ (EDIT) OUTGOING GROUP
- VAQ (EDIT) PARAMETER
- VAQ (EDIT) RELEASE GROUP
- VAQ (EDIT) SEGMENT GRP - ALL
- VAQ (EDIT) SEGMENT GRP - PRIV
- VAQ (EDIT) SEGMENT GRP - PUBL
- VAQ (MENU) CUR TRANSACTIONS
- VAQ (MENU) DISPLAY PDX
- VAQ (MENU) EDIT FILES
- VAQ (MENU) MAIN
- VAQ (MENU) PURGING
- VAQ (MENU) SYSTEM REPORTS
- VAQ (MENU) WORK-LOAD
- VAQ PDX DISPLAY (TRN)
- VAQ PDX DISPLAY (USER)
- VAQ PDX LOAD/EDIT
- VAQ PDX PROCESS EXTERNAL
- VAQ PDX PURGE
- VAQ PDX REQUEST
- VAQ PDX UNSOLICITED
- VAQ PURGE BY ENTERED DATE
- VAQ PURGE BY ENTERED LIFE
- VAQ REQUIRES PROCESSING
- VAQ TRANSACTIONS BY AUTHORIZER
- VAQ TRANSACTIONS BY DATE SENT

- VAQ TRANSACTIONS BY FACILITY
- VAQ TRANSACTIONS BY PATIENT
- VAQ TRANSACTIONS BY RECEIPT
- VAQ TRANSACTIONS BY REQUESTOR
- VAQ TRANSACTIONS BY STATUS
- VAQ TRANSACTIONS USER DEFINED
- VAQ WORKLOAD BY DATE
- VAQ WORKLOAD BY FACILITY
- VAQ WORKLOAD BY PATIENT
- VAQ WORKLOAD BY WORK
- VAQ WORKLOAD USER DEFINED
- VAQ-PDX-SERVER

Mail Groups

The V. 1.0 mail group VAQ PDX USER has been deleted and replaced by the following.

- VAQ PDX ERRORS — all PDX errors
- VAQ MANUAL PROCESSING — those transactions that require manual processing
- VAQ UNSOLICITED RECEIVED — receipt of an unsolicited request

In PDX V. 1.5, specialized mail groups were set up to allow PDX support personnel to only subscribe to those groups which meet their needs and eliminate unwanted messages.

Bulletins

The following V. 1.0 bulletins have been deleted.

- VAQ PDX SERVER - PROCESS
- VAQ PDX SERVER - RETURNED
- VAQ PDX SERVER - UNSOLICITED

The V. 1.5 messages are not in the BULLETIN file (#3.6) and are produced by the PDX routines. These routines are contained in the subname space VAQBUL*.

2. Installation Guide

Introduction

PDX V. 1.5 uses the newest version of the List Manager which was released with V. 5.3 of PIMS. PIMS V. 5.3 was mandated for October 1, 1993.

Please instruct PDX users to set up an electronic signature code. This can be accomplished through the Edit Electronic Signature Code option of the User's Toolbox menu.

It is recommended you slave print the installation process. The data printed out during the post-init should be reviewed.

Software Integration

A. The following software versions (or higher) must be installed prior to loading this version of PDX.

Kernel	7.0
VA FileMan	19.0
VA MailMan	7.0
PIMS	5.3
Pharmacy	5.6
Integrating Billing	1.5
Health Summary	1.2
OE/RR	1.96
Allergy Tracking	2.2

B. Integration between PDX V. 1.0 and PDX V. 1.5.

PDX V. 1.0 is not forward compatible with PDX V. 1.5 unless patch VAQ*1*11 has been applied by V. 1.0 sites.

The message structure for PDX transmissions has been changed with this version. V. 1.5 sites are able to accept messages in V. 1.0 format. If the V. 1.5 site must respond to the message (e.g., return requested data), it sends the response in the appropriate V. 1.0 format.

However, there is a problem when a V. 1.5 site originates communication with a site using V. 1.0 (e.g., sends a PDX Request or an Unsolicited PDX). The V. 1.0 site cannot interpret the format and the message is lost. This patch will make it possible for V. 1.0 sites to receive these PDX messages.

After the patch is installed, the V. 1.0 site will automatically request a retransmission for each PDX Request or Unsolicited PDX from the V. 1.5 site. This is accomplished without user intervention. The retransmission will be sent in the proper format.

The extractions for PDX V. 1.0 and PDX V. 1.5 are different and some fields may be in different formats.

C. The following IB routines are distributed with this version of PDX to allow copay to be an extractable component:

- IBAPDX
- IBAPDX0
- IBAPDX1.

D. GMTSPDX is distributed with this version of PDX to allow for the extraction of the Health Summary components. This routine uses the spooler. If a spooler is not set up at your site, the site will not be able to transmit Health Summary Data. This is significant to note, as it effects the major enhancement to PDX V. 1.5.

Software Initialization/Conversion Time Estimates

The following information was derived from the alpha and beta sites. The information presented are averages. Actual times may vary depending on system utilization. The total install process not including the conversion takes on average one hour or less.

Step	MSM	VAX
VAQINIT	2 min	3 min
CONVERSION	4 min per transaction (avg)*	5 min per transaction (avg)*

Table 2-1: Estimated installation time per operating system

*These numbers were calculated during peek usage. Conversion time for non-peek was about 1 minute per transaction.

Site	Conversion Time	Transactions Converted
Boston MA	37 hrs	2673 (VAX)
Bedford MA	4 hrs	180 (VAX)

Table 2-2: Sample conversion data per site

Users can be brought back on the system before the conversion has finished. Converted transactions will become available for use as they complete the conversion process. Transactions in the process of conversion will not be available for use.

Resource Requirements

Sites will see growth in the following three PDX files.

- VAQ - TRANSACTION file (394.61) 200 bytes per entry*
- VAQ - DATA file (394.62) 50 bytes per entry*
- VAQ - WORKLOAD file (394.87) 110 bytes per entry*

*Since variable fields are in these records, average record size was determined by sampling test sites.

It was determined that a single transaction on average will generate 185 data records. This was determined by taking the total number of entries in the VAQ - DATA file and dividing by the total number of entries in the VAQ - TRANSACTION file.

Disk storage requirements are estimated at approximately 10K per transaction. This was determined by taking the 185 data records at 50 bytes each plus a single transaction record at 200 bytes plus a variable number of workload records at 110 bytes each and dividing the total by 1024 bytes.

Global Growth can be controlled by the purge features of PDX.

Pre-Installation

1. Insure that the patches which affect the PDX purge routine, VAQPRG, have been installed. These are VAQ*1*8 and VAQ*1*15.

2. Request PDX staff to process all V. 1.0 requests. This will cut down on conversion time.

3. Run V. 1.0 purger.

   This can be accomplished by rescheduling the start time of the background job (VAQ PDX PURGE) to current date and time plus two minutes.

   Go into the Task Manager and select Schedule/Unschedule Options. At the "Select OPTION to schedule or reschedule" prompt, enter **VAQ PDX PURGE.** Enter the **current date/time** at the "Queued to run at what time:" prompt.

4. Determine how PDX V. 1.0 has been distributed (PDX main menu or custom menus) by running Option Access By User. This report is under the Menu Management menu.

5. (optional) Back up System(s).

6. Remove VAQ namespaced routines from the routine map. V. 1.0 had recommended mapping of the following routines:

    - VAQDSP3
    - VAQDSP6
    - VAQUTL
    - VAQUTL1
    - VAQUTL2

7. A spooling device must be installed in order to transmit Health Summary data. Typically VAX sites will already have one installed, while 486 sites will not. 486 sites should refer to the 486 Cookbook for assistance in setting up the spooler. The Health Summary Developers recommend allocating 2 Mb of disk space for the spooler.

8. Determine Spool device name.

9. The POSTMASTER must be given access to the spool device used by your facility. This can be accomplished by using the Edit an Existing User option [XUSEREDIT] and entering YES to the ALLOWED TO USE SPOOLER field.

Installation

1. Request PDX users to be off the system.

2. Sign into UCI where the software will be initially installed (use 40K partition for MSM).

3. Disable Journaling.

4. Delete VAQ namespaced routines.

```
D ^%RDELETE  (VAX) or D ^%RDEL  (MSM)

Routine(s) ? > VAQ*
Routine(s) ? > -VAQWK    (do not delete this routine - used by PIMS)
```

Figure 2-1: Deleting VAQ namespaced routines

For deleted routines, please refer to Appendix A—Version 1.0 Routines.

5. Load PDX V. 1.5 tape/disk using routine restore.

Sites using MSM will find the name of the file containing the routines on the disk label.

```
D ^%RR
```

For a distributed routine list, please refer to Appendix B—Version 1.5 Routines.

6. Verify integrity values.

```
D ^VAQNTEG
```

7. Setup system variables.

```
D ^XUP
```

Verify DUZ, DT, DTIME, and U are defined and DUZ(0)="@". The DUZ variable must be defined as an active user number and DUZ(0) variable must equal "@" in order to initialize.

8. **D ^VAQINIT**

(Follow Appendix C for VAQINIT responses.)

Please answer all initialization questions carefully.

It is strongly recommended you take the bolded responses from the guide.

A file conversion will be queued at the end of the initialization process. This utility has been included for your convenience. If you do not want to run the conversion, you must enter an up-arrow (^) when prompted for the conversion's device. Please refer to Appendix E if you have chosen to skip the conversion or the file conversion does not run to completion.

9. Update Health Summary Site Parameter option.

The GMTS IRM/ADPAC PARAMETER EDIT option must be modified to prompt for the SPOOL DEVICE NAME. This is done by adding ";.04" to the end of the existing DR {DIE} field. A sample of this is shown below.

```
D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT100
Select OPTION NAME: EVE

Select Systems Manager Menu Option: MENU MANAGEMENT

Select Menu Management Option: EDIT OPTIONS

Select OPTION to edit: GMTS IRM/ADPAC PARAMETER EDIT
NAME: GMTS IRM/ADPAC PARAMETER EDIT  Replace ^DR {DIE}
DR {DIE}: .02;.03// .02;.03;.04
NO UP-ARROW: ^ (user to enter up-arrow)

Select OPTION NAME: GMTS IRM/ADPAC MAINT MENU
Select Health Summary IRM Maintenance Menu Option: 7 <Enter> Edit Health
Summary Site Parameters
Select HEALTH SUMMARY PARAMETERS: HOSPITAL
PROMPT FOR ACTION PROFILE:// <Enter> (take the value in field)
INCLUDE COMMENTS FOR LABS:// <Enter> (take the value in field)

SPOOL DEVICE NAME: < enter device name >
```

Figure 2-2: Modifying theGMTS IRM/ADPAC PARAMETER EDIT option

10. Using the Mail Group Edit option [XMEDITMG], add members to the newly created mail groups. The mail groups are as follows:

- VAQ PDX ERRORS—It is recommended that the System Manager be added to this group in order to monitor incoming messages which cannot be served (errors). These messages are saved in S.VAQ-PDX-SERVER mail basket.
- VAQ MANUAL PROCESSING
- VAQ UNSOLICITED RECEIVED

11. The PDX server (VAQ-PDX-SERVER) needs to be edited in order to associate a mail group with the server. The mail group to add is VAQ PDX ERRORS. The installer will also have to change the server action from QUEUE SERVER ROUTINE to RUN IMMEDIATELY.

```
>D ^XUP

Setting up programmer environment
Terminal Type set to: C-VT100
Select OPTION NAME: EVE <Enter>         Systems Manager Menu

Select Systems Manager Menu Option: Menu Management
Select Menu Management Option: Edit options

Select OPTION to edit: VAQ-PDX-SERVER <Enter>     PDX Server
NAME: VAQ-PDX-SERVER// ^SERVER ACTION
SERVER ACTION: QUEUE SERVER ROUTINE// RUN IMMEDIATELY
SERVER MAIL GROUP: VAQ PDX ERRORS// ^
```

Figure 2-3: Changing the PDX Server action to RUN IMMEDIATELY

12. Enter Task Manager and select Schedule/Unschedule Options. At the "Select OPTION to schedule or reschedule" prompt, enter **VAQ PDX PURGE** and enter the values for the following fields. Fields not listed need to be reviewed for site specific values.

```
QUEUED TO RUN AT WHAT TIME: T+15@2400
RESCHEDULING FREQUENCY: 15D
```

Figure 2-4: Scheduling the VAQ PDX PURGE option

13. Verify that the global attributes of ^VAT are as follows.
    - SYSTEM = RWD
    - WORLD = RWD
    - GROUP = RWD
    - UCI = RWD

14. For all other systems move PDX routines, and translate ^VAT (if necessary).

15. Delete obsolete options:

#	Option Name	Option Text
1	VAQ PDX	PDX Menu
2	VAQ PDX DISPLAY	Display PDX Data
3	VAQ PDX DISPLAY MAS	Extended - View A Specific PDX
4	VAQ PDX DISPLAY MAS/PHA	Extended - View A Specific PDX
5	VAQ PDX DISPLAY PHA	Extended - View A Specific PDX
6	VAQ PDX LOAD	Load/Edit Patient File with PDX Information
7	VAQ PDX PRINT MAS	Brief - View Most Recent PDX From A Site
8	VAQ PDX PRINT MAS/PHA	Brief - View Most Recent PDX From A Site
9	VAQ PDX PRINT PHA	Brief - View Most Recent PDX From A Site
10	VAQ PDX PROCESS	Process External PDX Request
11	VAQ PDX SHOW MAS	MAS - Display PDX's MAS Information
12	VAQ PDX SHOW MAS/PHA	Both - Display PDX's MAS & Pharmacy Information
13	VAQ PDX SHOW PHA	Pharmacy - Display PDX's Pharmacy Information
14	VAQ PDX STAT DAY	Today - Print Entries Made Today
15	VAQ PDX STAT GEN	General - Print Entries Made During A Given Range
16	VAQ PDX STATS	Statistics File Toolbox

Table 2-3: Obsolete/Deleted PDX options

16. Delete obsolete templates:
    - Input Templates - None
    - Sort Templates - VAQ SORT STATS
    - Print Templates- VAQ PRINT STATS

17. Delete obsolete mail group:
    - VAQ PDX USERS

18. Delete obsolete bulletins:
    - VAQ PDX SERVER-PROCESS
    - VAQ PDX SERVER-RETURNED
    - VAQ PDX SERVER-UNSOLICITED

19. Delete the initialization routines VAQIN*, VAQON*, and VAQPSL*.

    Do not delete VAQINITY.

20. At the end of the process, a mail message is sent to the development OIFO indicating that the install is complete.

21. Enable Journaling.

Appendix A—Version 1.0 Routines

VAQADD	VAQADD1	VAQADD2	VAQADD3	VAQADD4	VAQADD5	VAQADD7	VAQDBUG
VAQDBUG1	VAQDBUG2	VAQDSP1	VAQDSP10	VAQDSP11	VAQDSP12	VAQDSP13	VAQDSP14
VAQDSP15	VAQDSP2	VAQDSP3	VAQDSP3A	VAQDSP4	VAQDSP5	VAQDSP6	VAQDSP7
VAQDSP8	VAQDSP9	VAQIN001	VAQIN002	VAQIN003	VAQIN004	VAQIN005	VAQIN006
VAQIN007	VAQIN008	VAQIN009	VAQIN010	VAQIN011	VAQIN012	VAQIN013	VAQIN014
VAQIN015	VAQINIT	VAQINIT0	VAQINIT1	VAQINIT2	VAQINIT3	VAQMAS	VAQMAS1
VAQMAS1A	VAQMAS2	VAQMAS2A	VAQMAS3	VAQMAS4	VAQMAS5	VAQMAS6	VAQMAS6A
VAQNTEG	VAQPHA1	VAQPRG	VAQPRT	VAQPRT1	VAQRQP	VAQRQP1	VAQRQR
VAQRQR1	VAQRQU	VAQST1	VAQST2	VAQST3	VAQUTL	VAQUTL1	VAQUTL2

72 routines

Appendix B—Version 1.5 Routines

```
VAQADM2   VAQADM21  VAQADM22  VAQADM23  VAQADM5   VAQADM50  VAQADM51  VAQADS01
VAQAUT    VAQBUL    VAQBUL01  VAQBUL02  VAQBUL03  VAQBUL04  VAQBUL05  VAQBUL06
VAQBUL07  VAQCON    VAQCON0   VAQCON1   VAQCON2   VAQCON3   VAQCON4   VAQCON5
VAQCON6   VAQCON7   VAQCON8   VAQCON93  VAQCON94  VAQCON95  VAQCON96  VAQCON97
VAQCON98  VAQCON99  VAQDBI    VAQDBIH1  VAQDBIH2  VAQDBIH3  VAQDBII1  VAQDBIM
VAQDBIM0  VAQDBIM1  VAQDBIM2  VAQDBIM3  VAQDBIM4  VAQDBIP   VAQDBIP1  VAQDBIP2
VAQDBIP3  VAQDBIP4  VAQDBIP5  VAQDBIP6  VAQDBIP7  VAQDBIP8  VAQDIS01  VAQDIS10
VAQDIS11  VAQDIS12  VAQDIS15  VAQDIS16  VAQDIS17  VAQDIS20  VAQDIS21  VAQDIS22
VAQDIS23  VAQDIS24  VAQDIS25  VAQDIS26  VAQDIS27  VAQDIS28  VAQDIS29  VAQDIS30
VAQDIS31  VAQDIS32  VAQDIS33  VAQDIS40  VAQDIS41  VAQDIS42  VAQDIS43  VAQEXT01
VAQEXT02  VAQEXT03  VAQEXT04  VAQEXT05  VAQEXT06  VAQFIL10  VAQFIL11  VAQFIL12
VAQFIL13  VAQFIL14  VAQFIL15  VAQFIL16  VAQFIL17  VAQFIL18  VAQFILE   VAQFILE1
VAQHSH    VAQHSH1   VAQIN001  VAQIN002  VAQIN003  VAQIN004  VAQIN005  VAQIN006
VAQIN007  VAQIN008  VAQIN009  VAQIN010  VAQIN011  VAQIN012  VAQIN013  VAQIN014
VAQIN015  VAQIN016  VAQIN017  VAQIN018  VAQIN019  VAQIN020  VAQIN021  VAQIN022
VAQIN023  VAQIN024  VAQIN025  VAQIN026  VAQIN027  VAQIN028  VAQIN029  VAQIN030
VAQIN031  VAQIN032  VAQIN033  VAQIN034  VAQIN035  VAQIN036  VAQIN037  VAQIN038
VAQIN039  VAQIN040  VAQIN041  VAQIN042  VAQIN043  VAQIN044  VAQIN045  VAQIN046
VAQIN047  VAQIN048  VAQIN049  VAQIN050  VAQIN051  VAQIN052  VAQIN053  VAQIN054
VAQIN055  VAQIN056  VAQIN057  VAQIN058  VAQIN059  VAQIN060  VAQIN061  VAQIN062
VAQIN063  VAQIN064  VAQIN065  VAQIN066  VAQIN067  VAQIN068  VAQIN069  VAQIN070
VAQINIT   VAQINIT1  VAQINIT2  VAQINIT3  VAQINIT4  VAQINIT5  VAQINITY  VAQLED01
VAQLED02  VAQLED03  VAQLED04  VAQLED05  VAQLED07  VAQLED09  VAQLED10  VAQNTEG
VAQNTEG0  VAQON001  VAQON002  VAQON003  VAQON004  VAQON005  VAQONIT   VAQONIT1
VAQONIT2  VAQONIT3  VAQPAR1   VAQPAR10  VAQPAR11  VAQPAR6   VAQPAR60  VAQPAR61
VAQPSE01  VAQPSE02  VAQPSE03  VAQPSE04  VAQPSL    VAQPSL1   VAQPSL2   VAQPSL3
VAQPST01  VAQPST02  VAQPST03  VAQPST04  VAQPST05  VAQPST10  VAQPST20  VAQPST21
VAQPST22  VAQPST23  VAQPST24  VAQPST25  VAQPST30  VAQPST31  VAQPST40  VAQPUR
VAQPUR10  VAQPUR11  VAQREQ01  VAQREQ02  VAQREQ03  VAQREQ04  VAQREQ05  VAQREQ06
VAQREQ07  VAQREQ08  VAQREQ09  VAQREQ10  VAQREQ11  VAQUIN01  VAQUPD1   VAQUPD2
VAQUPD25  VAQUTL1   VAQUTL2   VAQUTL3   VAQUTL4   VAQUTL92  VAQUTL93  VAQUTL94
VAQUTL95  VAQUTL96  VAQUTL97  VAQUTL98  VAQUTL99  VAQXRF1   VAQXRF2   VAQXRF3

256 routines
```

Appendix C—PDX V. 1.5 Sample Installation

```
>D ^VAQINIT

This version (#1.5) of 'VAQINIT' was created on 12-NOV-1993
         (at PDX DEVELOPMENT (PRIMARY), by VA FileMan V.20.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

   142.99    HEALTH SUMMARY PARAMETERS  (Partial Definition)
Note:  You already have the 'HEALTH SUMMARY PARAMETERS' File.

   394       *PDX TRANSACTION
*BUT YOU ALREADY HAVE 'PDX TRANSACTION' AS FILE #394!
Shall I change the NAME of the file to *PDX TRANSACTION? NO// YES

   394       *PDX TRANSACTION
Note:  You already have the '*PDX TRANSACTION' File.

   394.1     *PDX DATA
*BUT YOU ALREADY HAVE 'PDX DATA' AS FILE #394.1!
Shall I change the NAME of the file to *PDX DATA? NO// YES

   394.1     *PDX DATA
Note:  You already have the '*PDX DATA' File.

   394.2     *PDX PARAMETER
*BUT YOU ALREADY HAVE 'PDX PARAMETER' AS FILE #394.2!
Shall I change the NAME of the file to *PDX PARAMETER? NO// YES

   394.2     *PDX PARAMETER
Note:  You already have the '*PDX PARAMETER' File.

   394.3     *PDX STATUS  (including data)
*BUT YOU ALREADY HAVE 'PDX STATUS' AS FILE #394.3!
Shall I change the NAME of the file to *PDX STATUS? NO// YES

   394.3     *PDX STATUS  (including data)
Note:  You already have the '*PDX STATUS' File.
I will OVERWRITE your data with mine.

   394.4     *PDX STATISTICS
*BUT YOU ALREADY HAVE 'PDX STATISTICS' AS FILE #394.4!
Shall I change the NAME of the file to *PDX STATISTICS? NO// YES

   394.61    VAQ - TRANSACTION

   394.62    VAQ - DATA

   394.71    VAQ - DATA SEGMENT  (including data)
I will OVERWRITE your data with mine.

   394.72    VAQ - ENCRYPTION METHOD  (including data)
I will OVERWRITE your data with mine.

   394.73    VAQ - ENCRYPTED FIELDS  (including data)
I will MERGE your data with mine.
   394.81    VAQ - PARAMETER

   394.82    VAQ - RELEASE GROUP

   394.83    VAQ - OUTGOING GROUP

   394.84    VAQ - SEGMENT GROUP
```

```
   394.85    VAQ - STATUS  (including data)
I will OVERWRITE your data with mine.

   394.86    VAQ - AUTO-NUMBERING

   394.87    VAQ - WORKLOAD

   394.88    VAQ - WORK  (including data)
I will OVERWRITE your data with mine.

SHALL I WRITE OVER FILE SECURITY CODES? NO// <YES>
NOTE: This package also contains SORT TEMPLATES
    SHALL I WRITE OVER EXISTING SORT TEMPLATES OF THE SAME NAME? YES// <Enter>
NOTE: This package also contains INPUT TEMPLATES
    SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? YES// <Enter>
NOTE: This package also contains PRINT TEMPLATES
    SHALL I WRITE OVER EXISTING PRINT TEMPLATES OF THE SAME NAME? YES// <Enter>
NOTE: This package also contains FUNCTIONS
    SHALL I WRITE OVER EXISTING FUNCTIONS OF THE SAME NAME? YES// <Enter>
NOTE: This package also contains SECURITY KEYS
    SHALL I WRITE OVER EXISTING SECURITY KEYS OF THE SAME NAME? YES// <Enter>
NOTE: This package also contains OPTIONS
    SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? YES// <Enter>

ARE YOU SURE EVERYTHING'S OK? NO// YES

...SORRY, LET ME THINK ABOUT THAT A MOMENT.........................
'VAQ (EDIT) ENCRY FIELDS' Option Filed
'VAQ (EDIT) MAX LIMITS' Option Filed
'VAQ (EDIT) OUTGOING GROUP' Option Filed
'VAQ (EDIT) PARAMETER' Option Filed
'VAQ (EDIT) RELEASE GROUP' Option Filed
'VAQ (EDIT) SEGMENT GRP - ALL' Option Filed
'VAQ (EDIT) SEGMENT GRP - PRIV' Option Filed
'VAQ (EDIT) SEGMENT GRP - PUBL' Option Filed
'VAQ (MENU) CUR TRANSACTIONS' Option Filed
'VAQ (MENU) DISPLAY PDX' Option Filed
'VAQ (MENU) EDIT FILES' Option Filed
'VAQ (MENU) MAIN' Option Filed
'VAQ (MENU) PURGING' Option Filed
'VAQ (MENU) SYSTEM REPORTS' Option Filed
'VAQ (MENU) WORK-LOAD' Option Filed
'VAQ PDX DISPLAY (TRN)' Option Filed
'VAQ PDX DISPLAY (USER)' Option Filed
'VAQ PDX LOAD/EDIT' Option Filed
'VAQ PDX PROCESS EXTERNAL' Option Filed
'VAQ PDX PURGE' Option Filed
'VAQ PDX REQUEST' Option Filed
'VAQ PDX UNSOLICITED' Option Filed
'VAQ PURGE BY ENTERED DATE' Option Filed
'VAQ PURGE BY ENTERED LIFE' Option Filed
'VAQ REQUIRES PROCESSING' Option Filed
'VAQ TRANSACTIONS BY AUTHORIZER' Option Filed
'VAQ TRANSACTIONS BY DATE SENT' Option Filed
'VAQ TRANSACTIONS BY FACILITY' Option Filed
'VAQ TRANSACTIONS BY PATIENT' Option Filed
'VAQ TRANSACTIONS BY RECEIPT' Option Filed
'VAQ TRANSACTIONS BY REQUESTOR' Option Filed
'VAQ TRANSACTIONS BY STATUS' Option Filed
'VAQ TRANSACTIONS USER DEFINED' Option Filed
'VAQ WORKLOAD BY DATE' Option Filed
'VAQ WORKLOAD BY FACILITY' Option Filed
'VAQ WORKLOAD BY PATIENT' Option Filed
'VAQ WORKLOAD BY WORK' Option Filed
'VAQ WORKLOAD USER DEFINED' Option Filed
'VAQ-PDX-SERVER' Option Filed.............................
```

```
NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE


Begin of Post Init Process

Installing protocols for use by the list processor

This version of 'VAQONIT' was created on 21-JUL-1993
         (at PDX DEVELOPMENT (PRIMARY), by OE/RR V.2.5)


    PROTOCOL INSTALLATION

...OK, this may take a while, hold on PLEASE.........................
'VAQ ADD PATIENT' Protocol Filed
'VAQ ADD/EDIT REQUEST' Protocol Filed
'VAQ CHANGE PATIENT' Protocol Filed
'VAQ COPY REQUEST' Protocol Filed
'VAQ CREATE REQUEST' Protocol Filed
'VAQ DIS ALL SEGMENT' Protocol Filed
'VAQ DIS SELECTED SEGMENT' Protocol Filed
'VAQ DIS1 (MENU)' Protocol Filed
'VAQ DISPLAY BY REQUESTOR' Protocol Filed
'VAQ DISPLAY PDX' Protocol Filed
'VAQ DISPLAY SELECT' Protocol Filed
'VAQ DUPLICATE' Protocol Filed
'VAQ LOAD DATA' Protocol Filed
'VAQ LOAD EDIT' Protocol Filed
'VAQ LOAD FIELD' Protocol Filed
'VAQ NEW PATIENT' Protocol Filed
  VAQ DUPLICATE added as item to VAQ NEW PATIENT.
'VAQ PDX1 (MENU)' Protocol Filed
  VAQ DISPLAY PDX added as item to VAQ PDX1 (MENU).
  VAQ CREATE REQUEST added as item to VAQ PDX1 (MENU).
'VAQ PDX10 (MENU)' Protocol Filed
  VAQ DISPLAY BY REQUESTOR added as item to VAQ PDX10 (MENU).
'VAQ PDX11 (MENU)' Protocol filed
  VAQ DIS SELECTED SEGMENT added as item to VAQ PDX11 (MENU).
  VAQ DIS ALL SEGMENT added as item to VAQ PDX11 (MENU).
'VAQ PDX12 (MENU)' Protocol filed
'VAQ PDX2 (MENU)' Protocol Filed
  VAQ CHANGE PATIENT added as item to VAQ PDX2 (MENU).
  VAQ ADD/EDIT REQUEST added as item to VAQ PDX2 (MENU).
  VAQ TRANSMIT REQUEST added as item to VAQ PDX2 (MENU).
  VAQ COPY REQUEST added as item to VAQ PDX2 (MENU).
'VAQ PDX3 (MENU)' Protocol Filed
  VAQ PROCESS MANUAL added as item to VAQ PDX3 (MENU).
'VAQ PDX4 (MENU)' Protocol Filed
  VAQ PROCESS RELEASE added as item to VAQ PDX4 (MENU).
  VAQ PROCESS REJECT added as item to VAQ PDX4 (MENU).
'VAQ PDX5 (MENU)' Protocol Filed
  VAQ LOAD EDIT added as item to VAQ PDX5 (MENU).
'VAQ PDX6 (MENU)' Protocol Filed
  VAQ LOAD DATA added as item to VAQ PDX6 (MENU).
  VAQ LOAD FIELD added as item to VAQ PDX6 (MENU).
'VAQ PDX7 (MENU)' Protocol Filed
  VAQ ADD PATIENT added as item to VAQ PDX7 (MENU).
'VAQ PDX8 (MENU)' Protocol Filed
  VAQ DUPLICATE added as item to VAQ PDX8 (MENU).
  VAQ NEW PATIENT added as item to VAQ PDX8 (MENU).
'VAQ PDX9 (MENU)' Protocol Filed
  VAQ DISPLAY SELECT added as item to VAQ PDX9 (MENU).
'VAQ PROCESS MANUAL' Protocol Filed
'VAQ PROCESS REJECT' Protocol Filed
'VAQ PROCESS RELEASE' Protocol Filed
'VAQ TRANSMIT REQUEST' Protocol Filed
OK, Protocol Installation is Complete.
```

```
Protocol install completed

Installing list templates for use by list processor
'VAQ DIS MIN NUPD' List Template...Filed.
'VAQ DIS MIN UPD' List Template...Filed.
'VAQ DIS PATIENT PDX9' List Template...Filed.
'VAQ DIS REQUESTOR PDX10' List Template...Filed.
'VAQ DISPLAY DATA PDX12' List Template...Filed.
'VAQ DISPLAY MINIMUM' List Template...Filed.
'VAQ DISPLAY SEGMENT PDX11' List Template...Filed.
'VAQ DUPLICATE PDX8' List Template...Filed.
'VAQ LED DIFFERENCES PDX6' List Template...Filed.
'VAQ LED STATUS PDX5' List Template...Filed.
'VAQ MATCHES PDX8' List Template...Filed.
'VAQ PROCESS PDX3' List Template...Filed.
'VAQ PROCESS PDX4' List Template...Filed.
'VAQ REQUEST PDX2' List Template...Filed.
'VAQ STATUS PDX1' List Template...Filed.

 ** List Template install completed


  >>> Exported routines will now be loaded

     Copying of VAQPSE01 into GMTSPDX      Done
     Copying of VAQPSE02 into IBAPDX       Done
     Copying of VAQPSE03 into IBAPDX0      Done
     Copying of VAQPSE04 into IBAPDX1      Done

Done
Initialization of VAQ Parameter file   (See Appendix D #1)

Enter missing field(s)

Default Time Limit:
Default Occurrence Limit:

** Missing fields added, initialization complete



Updating pointers to Health Summary components and initializing
maximum time and occurrence limits (when appropriate).........

Updating completed


Initialization of VAQ - Auto-numbering file

 ** Initialization of VAQ - Auto-numbering file complete

Initialization of VAQ - Encrypted Fields File... (add/edit/delete)

Select VAQ - ENCRYPTED FIELDS Encrypt Field:        (See Appendix D #2)

 ** Initialization of VAQ - Encrypted Fields File complete

Initialization of VAQ - Release Group File...

 Updating VAQ - Release Group file from version 1.0


Update from version 1 completed

Add/Edit/Delete entries in VAQ - Release Group
```

```
Select VAQ - RELEASE GROUP Remote Facility:        (See Appendix D #3)


 ** Initialization of VAQ - Release Group File complete

Initialization of VAQ - Outgoing Group File... (add/edit/delete)

Select VAQ - OUTGOING GROUP Group Name:            (See Appendix D #4)

 ** Initialization of VAQ - Outgoing Group File complete

Initialization of VAQ - Segment Group File...

  Creating a segment group called "ALL"
  This group will contain all data segments
    Adverse Reactions/Allergies - added
    Clinical Warnings - added
    Crisis Notes - added
    Dietetics - added
    Integrated Billing - added
    Lab Blood Availability - added
    Lab Blood Transfusions - added
    Lab Chemistry & Hematology - added
    Lab Cumulative-Selected - added
    Lab Cumulative-Selected 1 - added
    Lab Cumulative-Selected 2 - added
    Lab Cumulative-Selected 3 - added
    Lab Cumulative-Selected 4 - added
    Lab Cytopathology - added
    Lab Microbiology - added
    Lab Microbiology Brief - added
    Lab Orders - added
    Lab Orders Brief - added
    Lab Surgical Pathology - added
    Lab Tests Selected - added
    MAS ADT History - added
    MAS Admissions/Discharges - added
    MAS Clinic Visits Future - added
    MAS Clinic Visits Past - added
    MAS Demographics - added
    MAS Demographics Brief - added
    MAS Disabilities - added
    MAS Discharge Diagnosis - added
    MAS Discharges - added
    MAS Minimum Patient Information - added
    MAS Procedures ICD Codes - added
    MAS Registration Information - added
    MAS Surgeries ICD Codes - added
    MAS Transfers - added
    MAS Treating Specialty - added
    Means Test Information - added
    Medication Profile - Long Form - added
    Medication Profile - Short For - added
    Medicine Summary - added
    Orders Current - added
    Pharmacy Intravenous - added
    Pharmacy Outpatient - added
    Pharmacy Unit Dose - added
    Progress Notes - added
    Progress Notes Brief - added
    Radiology Impression - added
    Radiology Profile - added
    Radiology Status - added
    Surgery Reports - added
    Surgery Reports Brief - added
    Vital Signs - added
```

```
    Vital Signs Selected - added
Done

Create entries in Segment Groups for Health Summary Type File? NO// <Enter>

Add/Edit/Delete entries in VAQ - Segment Group File


Select VAQ - SEGMENT GROUP Group Name:              (See Appendix D #5)

 ** Initialization of VAQ - Segment Group File complete
Creating Mail Groups for PDX
  'VAQ PDX ERRORS'               mail group created
  'VAQ MANUAL PROCESSING'        mail group created
  'VAQ UNSOLICITED RECEIVED'     mail group created
Mail Groups created



-  Conversion of version 1.0 files will now be tasked  -

Entering 'HOME' as the device for output will cause conversion
to be run without an output device.  It is recommended that a
device be chosen so that errors during the conversion can be
reported.

Entering '^' as the device for output will skip the conversion
process.  Please refer to the INSTALLATION GUIDE if you choose
to do this.


Enter device to use during conversion: HOME// {conditional response}

{If you have chosen to convert V. 1.0 data, respond as follows:}

Enter device to use during conversion: HOME// <DEVICE>  {user should enter a
                                                         device on the system}


Requested Start Time: NOW// <Enter>

Conversion tasked  (TASK #)


{If you have chosen not to convert V. 1.0 data, respond as follows:}

Enter device to use during conversion: HOME// ^

-  Conversion will not be done at this time  -

To run conversion at a later date the entry point TASK^VAQPST20
should be used.

If you have chosen to skip the conversion the entry point
DELETE^VAQPST24(1) must be used in order to delete entries
contained in the 1.0 files.

{The following information will be printed after answering the device prompt shown
above.}

*********************************************************************
* IMPORTANT * The following things need to be done.
*
*  - Members need to be added to the newly created mail groups.
*    The option is XMEDITMG.
*
*  - The PDX Server (VAQ-PDX-SERVER) needs to be edited in order
```

```
*    to associate a mail group with the server.  The mail group
*    to add is 'VAQ PDX ERRORS'.  The installer will also have
*    to change the server action from 'QUEUE SERVER ROUTINE' to
*    'RUN IMMEDIATELY'
*********************************************************************


In order to effectively use PDX, the following terminal type attributes
must be defined for each terminal type used.  Please verify these
attributes against the Terminal Type file at your facility.



     Attribute                   Value for a VT series terminal
     ---------                   ------------------------------
     Form Feed                   #,$C(27,91,50,74,27,91,72)
     XY CRT                      W $C(27,91)_(DY+1)_$C(59)_(DX+1)_$C(72)
     Erase to End of Page        $C(27,91,74)
     Insert Line                 $C(27)_"[1L"
     Underline On                $C(27,91,52,109)
     Underline Off               $C(27,91,109)
     High Intensity              $C(27,91,49,109)
     Normal Intensity            $C(27,91,109)
     Save Cursor Position        $C(27,55)
     Restore Cursor Position     $C(27,56)
     Set Top/Bottom Margin       $C(27,91)_(+IOTM)_$C(59)_(+IOBM)_$C(114)



Post init process completed
>
```

Figure C-1: Sample PDX V. 1.5 installation at the Albany OIFO

Appendix D—File Descriptions

1. VAQ - PARAMETER file (#394.81)

   This file contains site specific information concerning the use of PDX. This file is initialized from V. 1.0 data

2. VAQ - ENCRYPTED FIELDS file (#394.73)

   This file contains all fields that should be encrypted when PDX Requests and Unsolicited PDXs are transmitted by the facility. This file is only relevant when encryption has been turned on. The installer has the option to populate this file at this time. Entries are not required.

3. VAQ - RELEASE GROUP file (#394.82)

   This file contains the facilities that have been granted "automatic processing". In order for a request to be automatically processed, the requesting facility must have an entry in this file. This file has been populated from the entries found in V. 1.0. The init also allows the installer to make changes to this file at this time.

4. VAQ - OUTGOING GROUP file (#394.83)

   This file contains groups of facilities commonly accessed by PDX. This will work much like mail groups. When requesting a PDX, you could access an outgoing group called G.BETA. This would be the equivalent of entering in the beta sites individually.

5. VAQ - SEGMENT GROUP file (#394.84)

   This file contains groups of data segments commonly referenced by the facility. Groups marked as PUBLIC may be referenced by all users of PDX. Groups marked as PRIVATE may only be referenced by the individual that created the group. This works the same as mail groups and outgoing groups (i.e., G.CLINICAL - this could contain any combination of the Health Summary components).

Appendix E—File Conversion

If the conversion does not run to completion, the entry point TASK^VAQPST20 should be used to requeue the conversion. This is the same entry point used by the post-init, and all prompts and responses will be consistent with those previously mentioned.

If you would prefer to run the conversion in the foreground (i.e., from your terminal), the entry point INTER^VAQPST20 should be used. If you do not want information concerning the conversion printed to the current device, the entry point NONINTER^VAQPST20 should be used.

If you choose not to run the conversion, the data contained in the V. 1.0 files should still be deleted. To do this, the entry point DELETE^VAQPST24 should be used. If you want information concerning the deletion printed to the current device, a parameter of "1" should be passed.

Sample PDX Calls from Programmer Mode

Call	Description
`D TASK^VAQPST20`	Prompts for device and queues conversion (choose the HOME device if silent mode is desired).
`D NONINTER^VAQPST20`	Runs conversion in silent mode (nothing printed).
`D INTER^VAQPST20`	Runs conversion using current device.
`D DELETE^VAQPST24( )`	Deletes entries in V. 1.0 files in silent mode (nothing printed).
`D DELETE^VAQPST24(1)`	Deletes entries in V. 1.0 files using current device.

TableE-1: Sample PDX calls from Programmer Mode