

Introduction

Patient Data Exchange (PDX) is a software package designed to manage the transfer of patient information (demographics, episodes of care, medications, and diagnostic evaluations) between VA facilities using the MailMan electronic mail utility. Once transferred, this information may be combined with pertinent local information and assembled into a coherent composite record.

Requests for PDX data may be processed manually or automatically. For requests to be processed manually, the site would have to be a member of the Release Group and meet the requirements for automatic processing. Records determined to be "sensitive" and those which exceed the maximum time and occurrence limits for Health Summary components may not be returned automatically and will be held for manual processing.

PDX V. 1.5 uses the List Manager utility extensively. The List Manager is a tool designed to display a list of items. It allows you to select items from the list and perform specific actions against those items.

The software provides numerous system reports (current transactions and workload) which allow predefined and customizable sorts.

Following is a brief description of the major options and menus contained in the PDX package.

Request PDX for Patient - This option is used to electronically request PDX data for a selected patient from another VA facility(s).

Unsolicited PDX - This option is used to send PDX information to a remote site without having first received a request.

Process External PDX - This option is used to process PDX requests received from other VA facilities that do not meet the criteria for automatic processing.

Load/Edit PDX Data - This option allows you to load or edit data fields in your PATIENT file with data from your PDX file.

Display PDX Data Menu - This menu allows you to display or print PDX data for a selected patient by either transaction or user who requested the information.

System Reports Menu

Requires Processing Report - This option is used to print a report of all PDX requests that require manual processing.

Current Transactions Report Menu - The options on this menu allow you to print reports of PDX transactions on file by several different sorting methods.

Workload Reports Menu - The options on this menu allow you to print workload reports of PDX transactions on file by several different sorting methods.

PDX Edit Files Menu

Add/Edit Fields to Encrypt - This option provides the ability to encrypt selected data fields in the PDX transmission.

Edit Maximum Limits for Automatic Processing - This option is used to edit the maximum time and occurrence limits that your site is willing to allow for automatic processing of a PDX transaction.

Add/Edit Outgoing Group - This option is used to create outgoing groups and add/edit/delete remote facilities in those groups.

Edit Parameter File - This option is used to set up site specific PDX parameters.

Add/Edit Segment Group Options - These three options are used to create segment groups (selected group of data segments).

Add/Edit Release Group - This option is used to enter/edit facilities into the release group for automatic processing of PDX requests.

Purging Menu - These three options provide purging capabilities by default age, user defined age, or user defined date.

Related PDX manuals include the PDX User manual, PDX Package Security Guide, and the PDX Release Notes/Installation Guide.

General Information

Namespace Conventions

The namespace assigned to the PDX package is VAQ.

Integrity Checker

The VAQNTEG routine checks integrity for other PDX routines.

SACC Exemptions/Non-Standard Code

There are no SACC exemptions or non-standard code in the PDX package.

Resource Requirements

Sites will see growth in the following 3 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.

Implementation and Maintenance

All users of the PDX package must set up an electronic signature in order to utilize the software. This can be accomplished through the Edit Electronic Signature Code option of the User's Toolbox menu.

As an optional security measure, this package provides the ability to encrypt data using existing data encryption methods. Sites wishing to encrypt certain fields will have to turn the flag on through the Edit Parameter File option and add those fields to the ENCRYPTED FIELD file (#394.73).

All site specific parameters can be established through the Edit Parameter File option of the PDX Edit Files menu.

For further instruction on implementation of this package, including the set up of the release group and mail groups, please refer to the Installation Guide section of the PDX Release Notes/Installation Guide.

Routines

Routines to Map

There are no routines to map in the PDX package.

Callable Routines

\$\$PDX^VAQUIN01

This API can be used for both request and unsolicited request. It utilizes time and occurrence limits for Health Summary which are pieces on the segment root array. These pieces need to be set by the developer. If these are not included, the defaults in the site's VAQ - PARAMETER file (#394.81) will be used.

Required Variables

VAQOPT	REQ = request, UNS = unsolicited
VAQDFN	IFN of patient in PATIENT file (#2)
VAQNM	name of patient
VAQISSN	patient social security number (no dashes)
VAQIDOB	patient's date of birth (external format)
DOMROOT	array of domains (full global reference)
SEGROOT	array of segments (full global reference)
NOTROOT	array of who to notify (only used for request)
TLIMIT	time limit for Health Summary
OLIMIT	occurrence limit for Health Summary

External Calls

```
LDREQ^VAQREQ06
LDUNS^VAQREQ06
PID^VADPT6
WORKDONE^VAQADS01
```

Sample Call

```
S X=$$PDX^VAQUIN01("REQ",DFN,,,,DOMROOT,SEGROOT)
S X=$$PDX^VAQUIN01("UNS",,"PATIENT NAME","123549898",,DOMROOT,SEGROOT)
```

Routine List with Descriptions

Below is a list of routines associated with the PDX package excluding pre- and post-init routines.

VAQADM2, VAQADM21	PDX server main entry point
VAQADM22	Automatic processing of results
VAQADM23	Check segments against maximum limits for automatic processing
VAQADM5	Generate PDX transmissions
VAQADM50, VAQADM51	Main entry point for generating PDX transmissions
VAQADS01	Logs work being done by PDX
VAQAUT	User authentication routine
VAQBUL, VAQBUL01, VAQBUL02, VAQBUL03, VAQBUL04, VAQBUL05, VAQBUL06, VAQBUL07	Builds and sends bulletins
VAQCON, VAQCON0	Build message for transaction
VAQCON1	Create stub MailMan message
VAQCON2	Determines MailMan sender
VAQCON3	Construct user block
VAQCON4	Construct domain block
VAQCON5	Construct segment block

VAQCON6	Construct patient block
VAQCON7	Construct data block
VAQCON8	Construct display block
VAQCON93, VAQCON94	Builds and sends PDX V. 1.0 message
VAQCON95	Builds a pharmacy PDX V. 1.0 message
VAQCON96	Builds a PIMS PDX V. 1.0 message
VAQCON97, VAQCON98	Builds a data block for PDX V. 1.0 message
VAQCON99	Builds a header block for PDX V. 1.0 message
VAQDBI	Extract data segments contained in a PDX transaction
VAQDBIH1	Determines if PDX segment is Health Summary component
VAQDBIH2	Validates time limits of Health Summary component
VAQDBIH3	Determines if PDX segment is Health Summary component (without FM calls)
VAQDBII1	Holds references to PDX extracted data
VAQDBIM, VAQDBIM0	Extract Means Test data
VAQDBIM1	Extract Means Test data, screen 1
VAQDBIM2	Extract Means Test data, screen 2
VAQDBIM3	Extract Means Test data, screen 3
VAQDBIM4	Extract Means Test data, screen 4
VAQDBIP	Extracts PDX information
VAQDBIP1, VAQDBIP2, VAQDBIP5, VAQDBIP8	Extracts PDX pharmacy information
VAQDBIP3	Extracts PIMS minimum patient dataset information
VAQDBIP4, VAQDBIP6, VAQDBIP7	Extracts PIMS registration information
VAQDIS01	Display minimal data
VAQDIS10	Display PDX by patient
VAQDIS11	Selection screen for display by patient
VAQDIS12	Selection screen for display by requestor

VAQDIS15	Display segments for display
VAQDIS16	General display for all segments
VAQDIS17	Device selector for display
VAQDIS20	Sets up state and county variables
VAQDIS21	Builds display array for minimal data
VAQDIS22, VAQDIS23, VAQDIS24, VAQDIS25, VAQDIS26, VAQDIS27, VAQDIS28, VAQDIS29, VAQDIS30, VAQDIS31, VAQDIS32, VAQDIS33	Builds display array for PIMS data
VAQDIS40, VAQDIS41, VAQDIS42, VAQDIS43	Builds display array for pharmacy data
VAQEXT01, VAQEXT06	Builds array for manual processing
VAQEXT02, VAQEXT04	Displays array for manual processing
VAQEXT03	Process manual PDX transactions
VAQEXT05	Checks time and occurrence limits for manual processing
VAQFIL10, VAQFIL11	Files header block
VAQFIL12	Files domain block
VAQFIL13	Files user block
VAQFIL14	Files comment block
VAQFIL15	Files patient block
VAQFIL16	Files segment block
VAQFIL17	Files display block
VAQFIL18	Files all data block
VAQFILE	Creates a stub entry in the VAQ - TRANSACTION file
VAQFILE1	Performs add/edit/delete functions on VAQ - DATA file
VAQHSH	Encrypt a display array
VAQHSH1	Encrypt/decrypt routines
VAQINITY	Send install message
VAQLED01	Load/edit status screen

VAQLED02	Sets up differences between PDX and local data base
VAQLED03	Display possible matches screen
VAQLED04	Creates compare arrays for load/edit
VAQLED05	Load/edit differences screen
VAQLED07	Display minimal data, add new patient
VAQLED09	Load/edit help messages
VAQLED10	Prompts for patient in load/edit
VAQNTEG, VAQNTEG0	Integrity routines
VAQPAR1, VAQPAR10	Preparse PDX V. 1.0 transmission
VAQPAR11	Parses data block for PDX V. 1.0 message
VAQPAR6, VAQPAR60	Parses PDX V. 1.0 transmission
VAQPAR61	Parses PDX V. 1.5 message block
VAQPSE01	PDX Health Summary driver
VAQPSE02, VAQPSE03	Extract Means Test billing data for PDX
VAQPSE04	Build display set for extracted PDX billing data
VAQPSL, VAQPSL1, VAQPLS2, VAQPSL3	List Manager routines created from list templates
VAQPUR, VAQPUR10, VAQPUR11	Purging routines
VAQREQ01	Request patient data status screen
VAQREQ02	Request patient data request screen
VAQREQ03	Request patient data, ask domain/segment
VAQREQ04	Request patient data, ask segment
VAQREQ05	Request PDX record, copy domain
VAQREQ06	Transmit data to VAQ - TRANSACTION file
VAQREQ07	Create notify list, request screen
VAQREQ08	Comment for unsolicited request
VAQREQ09	Request patient data help messages

VAQREQ10	Prompts for patient for request and unsolicited request
VAQREQ11	Prompts and checks for time and occurrence limits for request and unsolicited request
VAQUIN01	Programmer entry point for sending PDX requests (API)
VAQUPD1	Recreates all extraction arrays for a transaction
VAQUPD2	Builds display for all segments and transactions
VAQUPD25	Pulls extraction array out of VAQ - DATA file
VAQUTL1, VAQUTL2, VAQUTL3, VAQUTL4, VAQUTL92, VAQUTL93, VAQUTL94	Utility routines
VAQUTL95	Sets commonly used variables
VAQUTL96	PDX transaction lookup
VAQUTL97	PDX patient lookup
VAQUTL98	Builds various tables
VAQUTL99	Various function calls
VAQXRF1, VAQXRF2, VAQXRF3	Builds MUMPS cross-references for PDX files

Files

File List

<u>FILE NUMBER</u>	<u>FILE NAME</u>	<u>GLOBAL</u>
394	*PDX TRANSACTION	^VAT(394,
394.1	*PDX DATA	^VAT(394.1,
394.2	*PDX PARAMETER	^VAT(394.2,
394.3***	*PDX STATUS	^VAT(394.3,
394.4	*PDX STATISTICS	^VAT(394.4,
394.61	VAQ - TRANSACTION	^VAT(394.61,
394.62	VAQ - DATA	^VAT(394.62,
394.71***	VAQ - DATA SEGMENT	^VAT(394.71,
394.72***	VAQ - ENCRYPTION METHOD	^VAT(394.72,
394.73***	VAQ - ENCRYPTED FIELDS	^VAT(394.73,
394.81	VAQ - PARAMETER	^VAT(394.81,
394.82	VAQ - RELEASE GROUP	^VAT(394.82,
394.83	VAQ - OUTGOING GROUP	^VAT(394.83,
394.84	VAQ - SEGMENT GROUP	^VAT(394.84,
394.85***	VAQ - STATUS	^VAT(394.85,
394.86	VAQ - AUTO-NUMBERING	^VAT(394.86,
394.87	VAQ - WORKLOAD	^VAT(394.87,
394.88***	VAQ - WORK	^VAT(394.88,

* Starred for deletion

*** File comes with data which will overwrite existing data, if specified

File Descriptions

VAQ - TRANSACTION file (#394.61)

This file holds information describing each PDX transaction.

VAQ - DATA file (#394.62)

This file holds the patient information passed through PDX.

VAQ - DATA SEGMENT file (#394.71)

This file defines each data segment currently supported by PDX.

VAQ - ENCRYPTION METHOD file (#394.72)

This file defines each encryption method currently supported by PDX.

VAQ - ENCRYPTED FIELDS file (394.73)

This file contains all fields that should be encrypted in PDX Requests and Unsolicited PDXs transmitted by the facility. This file is only relevant when encryption has been turned on.

VAQ - PARAMETER file (#394.81)

This file contains site specific information concerning the use of PDX.

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.

VAQ - OUTGOING GROUP file (#394.83)

This file contains groups of facilities commonly accessed using PDX.

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.

VAQ - STATUS file (#394.85)

This file defines all possible statuses of a PDX transaction.

VAQ - AUTO-NUMBERING file (#394.86)

This file is used to implement auto-numbering in the PDX files. Fields with auto-numbering capability will have an entry in this file.

VAQ - WORKLOAD file (#394.87)

This file contains statistics concerning the workload done using PDX. PDX workload is considered to be requesting patient information from another facility, manually processing requests from another facility, and uploading PDX data to the PATIENT File. Work done by the PDX Server is also stored in this file.

VAQ - WORK file (#394.88)

This file contains the type of work being tracked by the VAQ - WORKLOAD file.

File Flow Chart

<u>File # and Name</u>	<u>Points To</u>	<u>Pointed To By</u>
394 *PDX TRANSACTION	2 394.3	PATIENT *PDX STATUS
394.1 *PDX DATA	394	*PDX TRANSACTION
394.2 *PDX PARAMETER	4 4.2	INSTITUTION DOMAIN
394.3 *PDX STATUS		394 *PDX TRANSACTION 394.4 *PDX STATISTICS
394.4 *PDX STATISTICS	2 394.3	PATIENT *PDX STATUS
394.61 VAQ - TRANSACTION	2 200 394.71 394.72 394.85 394.86	PATIENT NEW PERSON VAQ - DATA SEGMENT VAQ - ENCRYPTION METHOD VAQ - STATUS VAQ - AUTO-NUMBERING
394.62 VAQ - DATA	394.61 394.71 394.86	VAQ - TRANSACTION VAQ - DATA SEGMENT VAQ - AUTO-NUMBERING
394.71 VAQ - DATA SEGMENT	142.1	HEALTH SUMMARY COMPONENT
		394.61 VAQ - TRANSACTION 394.62 VAQ - DATA 394.84 VAQ - SEGMENT GROUP 394.87 VAQ - WORKLOAD
394.72 VAQ - ENCRYPTION METHOD		394.61 VAQ - TRANSACTION 394.81 VAQ - PARAMETER
394.73 VAQ - ENCRYPTED FIELDS	394.86	VAQ - AUTO-NUMBERING
394.81 VAQ - PARAMETER	4 4.2 394.72	INSTITUTION DOMAIN VAQ - ENCRYPTION METHOD
394.82 VAQ - RELEASE	4 4.2	INSTITUTION DOMAIN

GROUP

200

NEW PERSON

<u>File # and Name</u>	<u>Points To</u>	<u>Pointed To By</u>
394.83 VAQ - OUTGOING GROUP	4 INSTITUTION 4.2 DOMAIN 200 NEW PERSON	
394.84 VAQ - SEGMENT GROUP	200 NEW PERSON 394.71 VAQ - DATA SEGMENT	
394.85 VAQ - STATUS		394.61 VAQ - TRANSACTION
394.86 VAQ - AUTO-NUMBERING		
394.87 VAQ - WORKLOAD	2 PATIENT 200 NEW PERSON 394.71 VAQ - DATA SEGMENT 394.88 VAQ - WORK	
394.88 VAQ - WORK		394.87 VAQ - WORKLOAD

Templates

Input Templates

<u>FILE#</u>	<u>TEMPLATE</u>	<u>DESCRIPTION</u>
394.71	VAQ EDIT FILE	Enter maximum time and occurrence limits
394.73	VAQ EDIT FILE	Enter VAQ - ENCRYPTED FIELDS file data
394.81	VAQ EDIT FILE	Enter VAQ - PARAMETER file data
394.82	VAQ EDIT FILE	Enter VAQ - RELEASE GROUP file data
394.83	VAQ EDIT FILE	Enter VAQ - OUTGOING GROUP file data
394.84	VAQ EDIT FILE	Enter segment group data
	VAQ EDIT FILE (PRIVATE)	Enter segment group data (private)
	VAQ EDIT FILE (PUBLIC)	Enter segment group data (public)

Print Templates

<u>FILE#</u>	<u>TEMPLATE</u>	<u>DESCRIPTION</u>
394.61	VAQ CUR. TRANSACTIONS REPORT	Generates current transaction report
	VAQ REQUIRES PROCESSING REPORT	Generates requires processing report
394.71	VAQ DATA SEGMENT LIST	Generates data segment listing
394.87	VAQ WORK-LOAD REPORT	Generates workload report

Sort Templates

<u>FILE#</u>	<u>TEMPLATE</u>	<u>DESCRIPTION</u>
394.61	VAQ REQUIRES PROCESSING	Sorts transactions by transaction number of those transactions that requires processing
	VAQ TRANSACTIONS BY AUTHORIZER	Sorts transactions by authorizer
	VAQ TRANSACTIONS BY DATE SENT	Sorts transactions by date and time of request
	VAQ TRANSACTIONS BY FACILITY	Sorts transactions by authorizing site
	VAQ TRANSACTIONS BY PATIENT	Sorts transactions by patient
	VAQ TRANSACTIONS BY RECEIPT	Sorts transactions by date and time of reply
	VAQ TRANSACTIONS BY REQUESTOR	Sorts transactions by requestor
	VAQ TRANSACTIONS BY STATUS	Sorts transactions by current status
394.87	VAQ WORK-LOAD BY DATE	Sorts type of work by date
	VAQ WORK-LOAD BY FACILITY	Sorts type of work by remote facility
	VAQ WORK-LOAD BY PATIENT	Sorts type of work by patient
	VAQ WORK-LOAD BY WORK	Sorts type of work by type of work

Exported Options

Patient Data Exchange (VAQ (MENU) MAIN)

```

|
|--DIS Display PDX Data -----TRN Display PDX by
      [VAQ (MENU)                Transaction [VAQ
      DISPLAY PDX]                PDX DISPLAY
                                  (TRN)]
|
|-----USER Display PDX by
|                User [VAQ PDX
|                DISPLAY (USER)]
|
|--EDT PDX Edit Files -----ENC Add/Edit Fields
      [VAQ (MENU) EDIT            to Encrypt [VAQ
      FILES]                      (EDIT) ENCRY
                                  FIELDS]
|                                  **LOCKED: VAQ
|                                  EDIT FILE**
|-----MAX Edit maximum
|                limits for
|                automatic
|                processing [VAQ
|                (EDIT) MAX
|                LIMITS]
|                **LOCKED: VAQ
|                EDIT FILE**
|-----OUT Add/Edit
|                Outgoing Group
|                [VAQ (EDIT)
|                OUTGOING GROUP]
|-----PAR Edit Parameter
|                File [VAQ (EDIT)
|                PARAMETER]
|                **LOCKED: VAQ
|                EDIT FILE**
|-----PRIV Add/Edit Segment
|                Group - Private
|                [VAQ (EDIT)
|                SEGMENT GRP -
|                PRIV]
|-----PUBL Add/Edit Segment
|                Group - Public
|                [VAQ (EDIT)
|                SEGMENT GRP -
|                PUBL]
|                **LOCKED: VAQ
|                EDIT FILE**

```

Exported Options

```

-----REL Add/Edit Release
Group [VAQ
(EDIT) RELEASE
GROUP]
**LOCKED: VAQ
EDIT FILE**

-----SEG Add/Edit Segment
Group - All [VAQ
(EDIT) SEGMENT
GRP - ALL]
**LOCKED: VAQ
EDIT FILE**

-----LD Load/Edit PDX
Data [VAQ PDX
LOAD/EDIT]
**LOCKED: VAQ
LOAD**

-PRGE Purging [VAQ -----DFLT Purge using
(MENU) PURGING] default age [VAQ
**LOCKED: VAQ PDX PURGE]
PURGE**

-----AGE Purge using user
defined age [VAQ
PURGE BY ENTERED
LIFE]

-----DATE Purge using user
defined date
[VAQ PURGE BY
ENTERED DATE]

-----PRO Process External
PDX [VAQ PDX
PROCESS
EXTERNAL]

-----REQ Request PDX for
Patient [VAQ PDX
REQUEST]

- RPRT System Reports -----PROC Requires
[VAQ (MENU) Processing
SYSTEM REPORTS] Report [VAQ
**LOCKED: VAQ REQUIRES
RPT** PROCESSING]

-----TRAN Current -----FAC Sort by remote
Transactions facility [VAQ
Report [VAQ TRANSACTIONS BY
(MENU) CUR FACILITY]
TRANSACTIONS]

```

Exported Options

```
-----GNRT Sort by user
            that generated
            request [VAQ
TRANSACTIONS BY
REQUESTOR]

-----PAT Sort by
            patient's name
            [VAQ
TRANSACTIONS BY
PATIENT]

-----RCVD Sort by date
            received [VAQ
TRANSACTIONS BY
RECEIPT]

-----RLSD Sort by user
            that released
            information [VAQ
TRANSACTIONS BY
AUTHORIZER]

-----SENT Sort by
            requesting date
            [VAQ
TRANSACTIONS BY
DATE SENT]

-----STAT Sort by status
            of transaction
            [VAQ
TRANSACTIONS BY
STATUS]

-----USER Sort criteria
            defined by user
            [VAQ
TRANSACTIONS
USER DEFINED]
            **LOCKED: VAQ
            RPT USER**

-----WORK Workload -----DATE Sort by date
            Reports [VAQ
            (MENU)
            WORKLOAD]
            [VAQ WORKLOAD BY
            DATE]

-----FAC Sort by remote
            facility [VAQ
            WORKLOAD BY
            FACILITY]

-----PAT Sort by
            patient's name
            [VAQ WORKLOAD BY
            PATIENT]
```

Exported Options

```
-----USER Sort criteria  
defined by user  
[VAQ WORKLOAD  
USER DEFINED]  
**LOCKED: VAQ  
RPT USER**
```

```
-----WORK Sort by type of  
work done [VAQ  
WORKLOAD BY  
WORK]
```

```
-----UNS Unsolicited PDX  
[VAQ PDX  
UNSOLICITED]
```

Archiving and Purging

Archiving

There are no archiving capabilities in the PDX package.

Purging

Three PDX purging options are available. They provide purging capabilities defined by default age, user defined age, or user defined date. The date the last status was assigned to the transaction is the date used in determining when transactions will be flagged for purging.

Purge using default age

This option is used to purge PDX transactions and their associated data based on the value found in the PDX parameter, LIFETIME OF DATA. The Purger automatically adds three days to the parameter value. Once transactions are older than this value, they are flagged for purging and automatically purged when this option is utilized. The recommended value for the LIFETIME OF DATA parameter is 15 days.

Purge using user defined age

This option is used to purge PDX transactions and their associated data based on an age entered by the user. The Purger automatically adds three days to the user-entered value. Once transactions are older than this value, they are flagged for purging and automatically purged when this option is utilized. The default value displayed with the prompt is the entry in the PDX site parameter, LIFETIME FOR DATA.

Purge using user defined date

This option is used to purge PDX transactions and their associated data based on a date entered by the user (date must be before three days ago). Transactions older than this value will be automatically purged when this option is utilized.

External/Internal Relations

External Relations

The following minimum package versions are required in order to install 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

Internal Relations

Any PDX option in File 19 (OPTION file) which is a menu option should be able to run independently provided the user has the appropriate keys and VA FileMan access.

Package-Wide Variables

There are no package-wide variables in the PDX package.

Key Variables

PDX System-Wide Variables

DFN Internal entry of the PATIENT file

How to Generate On-Line Documentation

This section describes some of the various methods by which users may secure PDX technical documentation. On-line technical documentation pertaining to the PDX software, in addition to that which is located in the help prompts and on the help screens which are found throughout the PDX package, may be generated through utilization of several KERNEL options. These include but are not limited to: %INDEX, Menu Management Inquire Option File, Print Option File, and FileMan List File Attributes.

Entering question marks at the "Select ... Option:" prompt may also provide users with valuable technical information. For example, a single question mark (?) lists all options which can be accessed from the current option. Entering two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu while an option name preceded by a question mark (?OPTION) shows extended help, if available, for that option.

For a more exhaustive option listing and further information about other utilities which supply on-line technical information, please consult the DHCP Kernel Reference manual.

%INDEX

This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to DHCP Programming Standards. The %INDEX output may include the following components: compiled list of errors and warnings, routine listing, local variables, global variables, naked globals, label references, and external references. By running %INDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from DHCP Programming Standards which exist in the selected routine(s) and to see how routines interact with one another, that is, which routines call or are called by other routines.

To run %INDEX for the PDX package, specify the following namespace at the "routine(s) ?>" prompt: VAQ*.

PDX initialization routines which reside in the UCI in which %INDEX is being run, compiled template routines, and local routines found within the PDX namespaces should be omitted at the "routine(s) ?>" prompt. To omit routines from selection, preface the namespace with a minus sign (-).

INQUIRE TO OPTION FILE

This Menu Manager option provides the following information about a specified option(s): option name, menu text, option description, type of option, and lock (if any). In addition, all items on the menu are listed for each menu option.

To secure information about PDX options, the user must specify the name or namespace of the option(s) desired. The namespace for the PDX package is VAQ.

PRINT OPTIONS FILE

This utility generates a listing of options from the OPTION file. The user may choose to print all of the entries in this file or may elect to specify a single option or range of options. To obtain a list of PDX options, the following option namespace should be specified: VAQ.

LIST FILE ATTRIBUTES

This FileMan option allows the user to generate documentation pertaining to files and file structure. Utilization of this option via the "Standard" format will yield the following data dictionary information for a specified file(s): file name and description, identifiers, cross-references, files pointed to by the file specified, files which point to the file specified, input templates, print templates, and sort templates. In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, description, help prompt, cross-reference(s), input transform, date last edited, and notes.

Using the "Global Map" format of this option generates an output which lists all cross-references for the file selected, global location of each field in the file, input templates, print templates, and sort templates.

For a comprehensive listing of PDX files, please refer to the Files Section of this manual.

Glossary

data segment	Comprised of Health Summary, Means Test, Copay, and specially created PDX components.
DHCP	Decentralized Hospital Computer Program
domain	A facility's electronic mail address.
outgoing group	A group of remote facilities. Creating outgoing groups allows for expeditious sending of PDX requests as they may be sent to all the facilities contained in the group with one entry, the outgoing group name.
PDX	Patient Data Exchange
release group	A group of sites defined in the VAQ - RELEASE GROUP file through FileMan. Requests for sites you enter in your release group will be processed automatically upon receipt. Conversely, your requests will be processed automatically by sites who have your site defined in their release group.
remote site	The facility with which your site is exchanging data. If you are requesting a PDX, the site you are requesting the data from would be the remote site. If you receive a request for a PDX, the site requesting the data would be the remote site.
segment group	A group of selected data segments.
transaction number	A number automatically assigned to a PDX request when the message is originated and/or received.

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Department of Veterans Affairs
Decentralized Hospital Computer Program

PDX
PATIENT DATA EXCHANGE
TECHNICAL MANUAL

Version 1.5
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Preface

The Patient Data Exchange (PDX) Technical manual is comprised of discrete sections which detail various technical characteristics of the DHCP PDX software product. This manual was produced to provide necessary information for use in the technical operation of the PDX software, V. 1.5. It should be noted that this manual is intended for use by technical computer personnel and is not designed for use by the typical end user.

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