# Patient Information Management System (PIMS) Technical Manual

Patient Registration, Admission, Discharge, Transfer, and Appointment Scheduling



Software Version 5.3 Revised Software Release: September 2018

Department of Veterans Affairs Office of Information and Technology (OI&T) Enterprise Management Program Office

## **Revision History**

Date	Revision	Description	Author
09/2018	0.32	DG*5.3*960 – Added section <u>3.5.8</u> Patch DG*5.3*960 Routines	D. Kelly, Technical Writer L. Behuniak, PM
2/2018	0.31	DG*5.3*933 - Demographics Native Domain Standardization. Added Section 22 Appendix A.	J. Asel – CTT DM NDS Team
11/2017	0.30	DG*5.3*935 – Added check in MSDS^VADPT4 to prevent returning a Military Service Episode (MSE) with a Future Discharge Date (FDD) to any downstream applications (p 92).	D. Sandusky
3/2017	0.29	DG*5.3*903 – Increase Engagement in My HealtheVet (IEMHV): Added Section 3.57 Updated Section 4.1 with ^DGMHV, global. Updated Section 4.2 with new files 390.01, 390.02, 390.03, 390.4.	S. Winterton
9/2015	0.28	<ul> <li>Updated for patch DG*5.3*884, ICD-10 PTF Modifications:</li> <li>Updated title page, footers, and made various formatting changes.</li> <li>Corrected headings in Section 2.</li> <li>Added new Input Templates to Section 3.3.1.</li> </ul>	VA OI&T PD, ICD-10 PTF Modifications Team
7/2015	0.27	Added Section 3.5.6 for Patch SD*5.3*622 Routines (released in December 2014) (p.19).	C.R. K.S.
6/2015	0.26	Removed HL7 instructions due to patch SD*5.3*624 (Table 1 and Sections 15.10-18).	R.S.
7/2014	0.25	<ul> <li>SD*5.3*586 – ICD-10 Remediation:</li> <li>Updated Title Page and Revision History.</li> <li>Updated ICD9 reference to generic ICD (p.12).</li> <li>Updated the DG1 - Diagnosis Information Segment table (p.200).</li> </ul>	B.T.
11/12/2013	0.24	Added Missing Patient, Patient Record Flag (PRF) - Patch Updates section (Section 2.4), Page 21 and Patch DG*5.3*869 Routines section 3.6, page 27. Added Patch DG*5.3*869 Features page 22. Added List of Tables.	VA OI&T

Date	Revision	Description	Author
04/23/2013	0.23	SD*5.3*588 – High Risk Mental Health Proactive Report patch exported the following: Updated the Implementation and Maintenance Section Eligibility/ID Maintenance Menu with current information and four new SD parameters. Updated Routines Section new and modified SD routines. Updated Exported Options Section with two new SD and two modified SD options. Updated Callable Routines/Entry Points/Application Program Interfaces Sections with SD routine information. Updated External Relationships Section with the Scheduling Reports required patch information. DG*5.3*849 – DGPF New Cat 1 Flag and Conversion & Supporting Reports patch Updated Implementation and Maintenance Section with PRF NATIONAL FLAG file (#26.15) new entry. Updated Routines Section with new DG routines. Updated Exported Options Section with new Convert Local optionHRMH PRF to National Action [DGPF LOCAL TO NATIONAL CONVERT] option. Updated Reference Material Section with SD	VA OI&T
12/12/2012	0.22	and DG manual releases. Corrected existing reference manuals names. SD*5.3*589 – Minor updates, Added 404.61: MH	VA OI&T
		PCMM STOP CODES file to file list	
05/18/2012	0.21	Updated API List	VA OI&T
05/18/2012	0.20	<ul> <li>Phase I - Patches included in the High Risk Mental Health (HRMH) Project:</li> <li>Patch DG*5.3*836 - HRMH-VISTA CHANGES FOR NATIONAL REMINDER &amp; FLAG. This is a Registration patch containing Patient Record Flag APIs.</li> <li>DGPFAPIH and DGPFAPIU are new routines.</li> <li>Patch SD*5.3*578 – HIGH RISK MENTAL HEALTH NO SHOW REPORT. This is a Scheduling patch with a new nightly run and Ad- hoc Missed Appt Report option.</li> </ul>	VA OI&T

Date	Revision	Description	Author
		Added two new Scheduling reports that identify no-show "high risk for suicide" patients that missed their MH appointments. SDMHAD, SDMHAD1, SDMHNS, and SDMHNS1 are new routine.	
		SD MH NO SHOW NIGHTLY BGJ and No Show Nightly Background Job are being added to the Background Job Options. Glossary of Terms added.	
01/04/2011	0.19	DG*5.3*754 – ESR 3.1 – removed the Confidential Address Phone Number from the HL7 PID Segment Tables.	VA OI&T
05/18/2010	0.18	DG*5.3*754 – ESR 3.1 – Updated Alpha Subscripts section, added ADD^VADPT (29) & "CPN", added OPD^VADPT (8) & "WP".	VA OI&T
11/05/2009	0.17	DG*5.3*754 – ESR 3.1 – Updated VADPT Variables section, added ADD^VADPT (Conf. Phone Number, OPD^VADPT (Patient's Phone Number (Work), added SEQ 13 to the PID - Patient Identification Segment.	VA OI&T
03/30/2009	0.16	DG*5.3*688 and SD*5.3*441 Enrollment VistA Changes Release 2 (EVC R2) Added additional Value of "O" for "Other" to Table VA0046 - Agent Orange Exposure Location. Removed Unknown value. Changed Environmental Contaminants to SW Asia Conditions. Added entries to Part 5 of the CALLABLE ENTRY POINTS IN VADPT section. SVC^VADPT modified to add VASV (14) and VASV (14,1) to the VASV array for project SHAD. Added alpha subscripts to ADD^VADPT section. Added alpha subscripts to SVC^VADPT to reflect the alpha translation. Replaced HL7 Control Segment - 2.3.6 PID- Patient Identification Segment table - with referral to MPI site on VDL.	VA OI&T
01/29/2009	0.15	Name change update - Austin Automation Center (AAC) to Austin Information Technology Center (AITC)	VA OI&T
07/23/2008	0.14	DG*5.3*763 – Hold Debt to DMC – Added ENROLLMENT RATED DISABILITY UPLOAD AUDIT file to the Files Section (File List) and	VA OI&T

Date	Revision	Description	Author
		Security Section (FileMan Access Codes). Added DGEN RD UPLOAD AUDIT PURGE background job option.	
07/01/2008	0.13	DG*5.3*779 – Added DGEN NEACL MGT RPT1BK background job option	VA OI&T
06/20/2008	0.12	DG*5.3*782 – updated Religion File	VA OI&T
06/04/2008	0.11	DG*5.3*644 – Home Telehealth enhancements	VA OI&T
01/16/2008	0.10	SD*5.3*253, SD*5.3*275, SD*5.3*283, SD*5.3*285, SD*5.3*301, SD*5.3*310, SD*5.3*316, SD*5.3*347, SD*5.3*508 – Added/updated Scheduling Application Programmer Interfaces (APIs) section	VA OI&T
06/26/2007	0.9	DG*5.3*707 – added "HL7 Generic PID,EVN,PV1 Segment Builder established by MPI" to the HL7 Interface Specifications section	VA OI&T
11/27/2006	0.8	DG*5.3*650 - added two new files - #26.19 and #26.21	VA OI&T
10/20/2006	0.7	DG*5.3*689 OEF/OIF Enhancements - updated SVC^VADPT Variable segment section	VA OI&T
04/28/2006	0.6	DG*5.3*692 Enhancement - updated HL7 Interface Spec for Transmission of Ambulatory Care Data	VA OI&T
03/22/2006	0.5	DG*5.3*687 Maintenance – remove PTF Archive/Purge function	VA OI&T
08/12/2005	0.4	DG*5.3*624 - (10-10EZ 3.0) Deleted DGRPT 10-10T REGISTRATION input template in the Compiled Template Routines section	VA OI&T
08/05/2005	0.3	DG*5.3*666 Enhancement - added Background Job Option	VA OI&T
11/15/2004	0.2	Manual updated to comply with SOP 192-352 Displaying Sensitive Data	VA OI&T
11/9/2004	0.1	DG*5.3*415-Race and Ethnicity Addition to VADPT variable section (patch released in 2003, change omitted in error)	VA OI&T

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### Orientation

## **On-line Help System**

When the format of a response is specific, there usually is a HELP message provided for that prompt. HELP messages provide lists of acceptable responses or format requirements which provide instruction on how to respond.

A HELP message can be requested by typing a "?" or "??". The HELP message will appear under the prompt, then the prompt will be repeated. For example, at the following prompt

```
Sort by TREATING SPECIALTY:
enter "?" and the HELP message would appear.
Sort by TREATING SPECIALTY?
CHOOSE FROM:
SURGERY
CARDIOLOGY
12 PSYCHIATRY
Sort by TREATING SPECIALTY:
```

For some prompts, the system will list the possible answers from which to choose. Any time choices appear with numbers, the system will usually accept the number or the name.

A HELP message may not be available for every prompt. If a "?" or "??" is entered at a prompt that does not have a HELP message, the system will repeat the prompt.

## Acronyms

National Acronym Directory: <u>http://vaww1.va.gov/Acronyms/</u>

## **Reference Materials**

The following manuals are available from the VistA Documentation Library (VDL) <u>http://www.va.gov/vdl</u>:

DOCUMENTATION NAME	FILE NAME	LOCATION
High Risk Mental Health Patient Project Installation and Setup Guide	PXRM_2_24_IG.PDF	VDL Anonymous Directories
PIMS Technical Manual	PIMSTM.PDF	VDL Anonymous Directories
PIMS Scheduling User Manual - Outputs Menu	PIMsSchOutput.PDF	VDL Anonymous Directories

#### **Reference Materials Table**

DOCUMENTATION NAME	FILE NAME	LOCATION
PIMS Scheduling User Manual - Menus, Intro &Orientation, etc.	PIMsSchIntro.PDF	VDL Anonymous Directories
Patient Record Flag User Guide	PatRecFlagUG.PDF	VDL Anonymous Directories
Scheduling and Registration Installation and Setup Guide	SDDG_Install_Review.PDF	VDL Anonymous Directories
High Risk Mental Health Patient Project Installation and Setup Guide	PXRM_2_18_IG.PDF PXRM_2_18_IG.doc	VDL Clinical Reminders website Anonymous Directories
Scheduling Patch 578 Installation and Setup Guide	SD_5_3_578_IG.PDF	Anonymous Directories
Registration Patch 836 Installation and Setup Guide	DG_5_3_836_IG.PDF	Anonymous Directories

# 1 Introduction and Software Purpose

The VISTA PIMS package provides a comprehensive range of software supporting the administrative functions of patient registration, admission, discharge, transfer, and appointment scheduling. Its functions apply throughout a patient's inpatient and/or outpatient stay from registration, eligibility and Means Testing through discharge with on-line transmission of PTF (Patient Treatment File) data and/or NPCDB (National Patient Care Database) data to the Austin Information Technology Center (AITC), (formerly the Austin Automation Center (AAC)). The ADT module aids in recovery of cost of care by supplying comprehensive PTF/RUG-II options and Means Test options.

The ADT and Scheduling modules of PIMS are fully integrated with the VA FileMan, thus allowing ad hoc reports to be extracted by non-programmer personnel. ADT is integrated with V. 2.1 of the Fee Basis software allowing Fee personnel to register patients through a select Fee option.

Related manuals include the PIMS User Manual, the PIMS Release Notes, which describe version specific changes to the PIMS package, and PIMS Installation Guide.

Several features have been designed into the PIMS package to maximize efficiency and maintain control over user access of specified sensitive patient records. The Consistency Checker reduces entry of inaccurate information by warning the user about incompatible or missing data. The Patient Sensitivity function allows a level of security to be assigned to certain records within a database in order to maintain control over unauthorized access. The Patient Lookup screens user access of these sensitive records, as well as providing for more efficient and faster retrieval of patient entries.

Tracking and calculation of data is performed transparently by the system to provide a variety of reports which assist in day-to-day operations as well as provide management with the necessary information to analyze workload and promote quality of care. Highlights include the following.

- Automation of the Daily Gains and Losses Sheet and Bed Status Report
- Inpatient Listings
- Seriously Ill Listings
- Bed Availability Reports
- AMIS Reporting
- Disposition Reporting
- Generic code sheets for reporting AMIS segments
- Automation of Appointment Status Update

Notifications for PIMS may be displayed for admissions, death discharges, deaths, and unscheduled (1010) visits. The notifications (ADMISSION, DECEASED, and UNSCHEDULED (1010) VISIT) will be displayed for patients who are defined as members of a list in the OE/RR LIST file (#100.21). The recipients of the notifications would need to be defined as users in the same OE/RR LIST entry. The notifications will appear as "alerts" when the user is prompted to select an option from a menu. Please refer to the documentation for CPRS for more information concerning OR notifications.

## **1.1 Namespace Conventions**

The namespaces assigned to the PIMS package are DG, DPT, SD, SC, and VA.

#### Table 1: Background Job Options

OPTION NAME	SUGGESTED RUN FREQUENCY	DEVICE REQUIRED	REMARKS
DG G&L RECALCULATION AUTO	Nightly	NO	Recommended to run @ 9PM
DG PRE-REGISTER NIGHT JOB	Nightly	NO	Run during off hours. Set to null device for MSM sites.
DG PTF BACKGROUND JOB	Nightly	NO	Run during off hours
DG RUG BACKGROUND JOB	Daily	YES	-
DG RUG SEMI ANNUAL - TASKED	*	YES	*Queued in advance to run on 10/1 and 4/1
DG SENSITIVE RCDS RPT-TASK	Nightly	NO	Run after midnight
DGEN NEACL MGT RPT1BK	Daily	YES	-
DGEN RD UPLOAD AUDIT PURGE	Daily or Weekly	NO	Purges entries from the ENROLLMENT RATED DISABILITY, UPLOAD AUDIT file (#390) after 365 days
DGPF BACKGROUND PROCESSING	Daily	NO	Run during off hours
DGQE BACKGROUND PROCESSING	Nightly	NO	Run during off hours
SCDX AMBCAR NIGHTLY XMIT	Nightly	NO	Collects workload information and sends it to NPCDB in Austin via HL7messages
SCENI IEMM SUMMARY BULLETIN	Nightly	NO	Run after nightly transmission to Austin
SCRPW APM TASK JOB	Monthly	NO	Runs on the 15th of the current month after hours. Generates info rolled up to AITC (formerly

OPTION NAME	SUGGESTED RUN FREQUENCY	DEVICE REQUIRED	REMARKS
			AAC) Additional Performance Monitors (TIU).
OPTION NAME	SUGGESTED RUN FREQUENCY	DEVICE REQUIRED	REMARKS
SDAM BACKGROUND JOB	Nightly	NO	-
SDOQM PM NIGHTLY JOB	As directed	YES	Suggested run time @ 2 AM
VAFC BATCH UPDATE	30 minutes	NO	Transmits changes to key patient demographical data
VAFH PIVOT PURGE	Weekly	NO	Purges entries greater than 1.5 years old from ADT/HL7 PIVOT file (#391.71)

### 1.2 SACC Exemptions/Non-Standard Code

The following are the steps you may take to obtain the SACC exemptions for the PIMS package.

- 1. FORUM
- 2. DBA Menu
- 3. SACC Exemptions Menu
- 4. Display Exemptions for a Package Option
- 5. Select SACC Exemptions package: ADT SD

#### 1.3 Primary Care Management Module (PCMM) Overview

The Primary Care Management Module was developed to assist VA facilities in implementing primary care. It will support both primary care teams and non-primary care teams. PCMM's functionality is divided into eight areas:

- Setup & Define Team
- Assign Staff to Positions in Teams
- Assign Patient to Team
- Assign Patient to Practitioner via Team Position and Enroll in a Clinic
- Reports/Outputs/Mail Messages
- Tools to Ease Startup Process of Primary Care
- Other Changes to Scheduling Package
- Application Program Interface (API) calls.

PCMM uses a Graphical User Interface (GUI) to control the startup, setup, and assignment functions. To use the functionality in the PCMM, a site will need a Microsoft Windows workstation which has a connection to VistA (either LAN or serial connection) for each location where a patient or staff member is assigned to a team. A typical site will want one workstation for each team, one for the PIMS ADPAC, plus one for the manager in charge of primary care. Existing Scheduling functionality will continue to be useable from "roll and scroll" terminals.

# 2 Implementation and Maintenance

This section of the PIMS Technical Manual provides information to assist technical support staff with the implementation and maintenance of the software. This section should include information regarding the entry of required site-specific data, including where applicable.

The PIMS package may be tailored specifically to meet the needs of the various sites. Instructions may be found in the User Manual under the ADT Module, Supervisor ADT and the Scheduling Module, Supervisor. A variety of options are included in these sections allowing each site to define its own configuration. The ADT portion of the PIMS package will function around the parameters defined through the MAS Parameter Entry/Edit option while the Scheduling portion parameters are defined through the Scheduling Parameters option.

A great many other options are included in these Supervisor sections which assist in site configuration and maintenance functions. Among them are options which allow for specification of mail groups to receive certain bulletins, definition of devices, designation of transmission routers, entry/edit of Means Test data, ward set-up, and clinic set-up. All configurations may be modified at any time as the site's needs change.

The SCHEDULING PARAMETERS file (#404.91) may be used to modify the behavior of PCMM. The USE USR CLASS FUNCTIONALITY? field (#801) can be used to turn on/off the user class functionality provided by the Authorizations/ Subscriptions software. This functionality allows certain staff members/users (especially clinicians) to be classified in a very specific manner (e.g., cardiologist), and yet the software can determine that the staff member is a member of a more general class (e.g., provider).

If a site has A/S installed prior to the PCMM installation, PCMM will default to use the user class functionality. Sites that have not populated the USR CLASS MEMBERSHIP file (#8930.3) for their potential team members should have this parameter set to NO. Sites that have fully populated this file should set this parameter to YES because the assignment of staff members to teams will be less error-prone and faster than the unscreened selection from the NEW PERSON file (#200).

The CHECK PC TEAM AT DISCHARGE? field (#802) can be used to turn off the PCMM functionality which, upon inpatient discharge, checks the patient's primary care assignments. If the patient has current primary care data, it is displayed. If the patient does not have a current primary care team assignment, the user will be prompted to assign the patient to a primary care team.

The ENABLE AUTOLINK FUNCTIONALITY? field (#803) should be turned off until OE/RR is installed. Although there is no harm in allowing users to add/edit auto link data, this will not be usable until OE/RR is installed. The auto link functionality was added for use by OE/RR teams.

#### 2.1 Eligibility ID/Maintenance Menu

The Eligibility/ID Maintenance Menu provides the options needed to accommodate VA/DOD sharing agreement requirements with regard to Patient Identification Number. For most medical centers, the PT ID will be the social security number of the patient and the SHORT ID will be the last four digits of the patient's social security number. For those sites with DOD sharing agreements using VA/DOD software developed by the Dallas CIOFO, the PT ID will be determined by the ID number given that patient by the military.

For most sites, each eligibility simply needs to be associated with the VA STANDARD format. This association was first accomplished during the post-init of MAS V. 5.0.

Other than The Primary Eligibility ID Reset (All Patients) option, the remaining six options would only be used by DOD sites using VA/DOD software developed by the Dallas CIOFO. They should not be run without Central Office and/or DOD approval/direction. Please contact your local CIOFO for guidance if you feel your site needs to utilize these options.

#### Below is a brief description of each option and its utilization:

PRIMARY ELIGIBILITY ID RESET (ALL PATIENTS) - This option will set/reset the IDs associated with each patient's primary eligibility code. This utility will be called when first installing the new eligibility data structure. It will run automatically as part of the PIMS clean-up routine process.

The option can be executed multiple times with no harmful effects. It should be run during nonpeak hours, preferably over a weekend. A MailMan message will be sent to the user when the job is completed showing the start and completion date/time.

ELIGIBILITY CODE ENTER/EDIT - This option allows the user to enter/edit eligibility codes used by the site. It should be run for all ELIGIBILITY file entries to associate each entry with an MAS Eligibility code and an Identification Format.

**Example:** ELIGIBILITY CODE ENTER/EDIT option (user responses are shown in boldface type).

```
Select ELIGIBILITY CODE NAME: MARINE CORPS
ARE YOU ADDING 'MARINE CORPS' AS A NEW ELIGIBILITY CODE (THE 5TH)? YES
ELIGIBILITY CODE MAS ELIGIBILITY CODE: OTHER FEDERAL AGENCY 4
NAME: MARINE CORPS// <RET>
ABBREVIATION: MC
PRINT NAME: MARINE CORPS (Enter abbreviated Eligibility Code name for
output in limited space)
INACTIVE: <RET> (Null response for active; 1 - YES for inactive)
MAS ELIGIBILITY CODE: OTHER FEDERAL AGENCY// <RET>
ID FORMAT: DOD
AGENCY: ARMY Select SYNONYM: <RET>
```

ID FORMAT ENTER/EDIT - This option allows the user to enter/edit Identification formats with description.

RESET ALL IDS FOR A PATIENT - This option is used to reset the corresponding IDs for all eligibilities for a single patient. The patient's eligibilities will be listed as the ID is reset. This utility would be used if, for some reason, a patient's ID got corrupted.

RESET ALL IDS FOR ALL PATIENTS - This option resets all IDs corresponding to each of the patient's eligibilities. The option should be executed during non-peak hours. When the job is completed, a MailMan message will be generated to the user showing the start and completion date/time.

SPECIFIC ELIGIBILITY ID RESET (ALL PATIENTS) - After prompting for an eligibility code and queue-to-run time, this option will update the IDs for all patients having the selected eligibility. This utility would allow a site to update their database with the new value if the ID FORMAT field in the ELIGIBILITY CODE file changed.

The option should be run during off hours. When the job is completed, a MailMan message will be generated to the user showing the start and completion date/time.

SPECIFIC ID FORMAT RESET - This option prompts for an ID format; then, all patients that have eligibility codes associated with that ID format will have their IDs reset. The utility allows sites to update their database if the DEFAULT LONG ID VALUE CODE field in the IDENTIFICATION FORMAT file was modified. This option should be executed during off hours. When the job is completed, a MailMan message will be sent to the user showing the start and completion date/time.

## 2.2 Station Number (Time Sensitive) Enter/Edit (D ^VASITE0)

The STATION NUMBER (TIME SENSITIVE) file (#389.9) is used to hold the time sensitive station number data. This file was initially populated by the post init routine for MAS V. 5.2. One entry was created for each medical center division with an effective date of Jan 1, 1980. It is not necessary to modify this data unless the station number for a division changes or a new division is added.

Entering a new medical center division name through the Supervisor ADT Menu of the ADT module of PIMS will automatically create a new entry in this file. New divisions may not be added through this routine entry point.

The Station Number (Time Sensitive) Enter/Edit routine entry point is used to change an existing station number or enter a new station number for a new division. If you are changing a station number for a division, you should enter a new effective date and the new station number for that division.

Once a new division has been added, you should select the new division and enter the effective date and new station number. The IS PRIMARY DIVISION field should be set to YES for the division where the station number has no suffix. Only one division may be primary at any given time.

### 2.3 New SD Parameters

New SD parameters were exported by patch SD\*5.3\*588 - High Risk Mental Health Proactive Report, and added to the following files:

#### Table 2: New SD Parameters

NEW SD PARAMETERS	FILES
<b>SD MH PROACTIVE DAYS PARAMETERS</b> - Stores the number of days to list future appointments for the High Risk MH Proactive Nightly Report [SD MH NO SHOW NIGHTLY BGJ].	PARAMETER file (#8989.5)
<b>SD MH NO SHOW DAYS PARAMETERS</b> - Stores the number of days to list future appointments for the High Risk MH No-Show Nightly Report [SD MH NO SHOW NIGHTLY BGJ].	PARAMETER file (#8989.5)
<b>SD MH PROACTIVE DAYS PARAMETER -</b> The default value for is 30. This value can be changed, within the range of 1 to 30, by using the Edit Parameter Values [XPAR EDIT PARAMETER] option.	PARAMETER DEFINITION file (#8989.51)
<b>SD MH NO SHOW DAYS PARAMETER -</b> The default value for is 30. This value can be changed, within the range of 1 to 30, by using the Edit Parameter Values [XPAR EDIT PARAMETER] option.	PARAMETER DEFINITION file (#8989.51)

## 2.4 Patient Record Flag (PRF) NATIONAL FLAG file (#26.15)

The new national flag data entry (MISSING PATIENT) is placed in the PRF National Flag file (26.15) by the DG.5.3\*869 DG NEW CAT 1 FLAG patch.

The new national flag data entry (HIGH RISK FOR SUICIDE) is placed in the PRF NATIONAL FLAG file (#26.15) by the DG\*5.3\*849 DGPF NEW CAT1 FLAG AND CONVERSION patch:

FILE NUMBER	FILE NAME	NEW DATA ENTRY
26.15	PRF NATIONAL FLAG	HIGH RISK FOR SUICIDE
26.15	PRF NATIONAL FLAG	URGENT ADDRESS AS FEMALE (SEE NOTE)
26.15	PRF NATIONAL FLAG	MISSING PATIENT
26.15	PRF NATIONAL FLAG	BEHAVIORAL

**NOTE:** The URGENT ADDRESS AS FEMALE PRF updates are not included in the PIMS Manual updates. For information on this patch update, please refer to the VDL – ADT - USH LEGAL SOLUTION – CATEGORY I Patient Record Flag (PRF) InstallationGuide.

### 2.5 Patch DG\*5.3\*869 - Missing Patient, Patient Record Flag Features

- Creates National Category I MISSING PATIENT, Patient Record Flag.
- Creates mail group, DGPF MISSING PT FLAG REVIEW.
- Updates file #.84 (field #4), Dialog Number 261132-Patient has local ICN, to change the message that is displayed when there is an attempt by a user to assign any National, CAT I PRF to the record of a patient that does not have a National ICN. This component updates the Text (field #4) to not reference any specific National, Category I PRF (i.e. BEHAVIORAL) to be assigned.
- Updates the following reports to reflect the new Missing Patient, Patient Record Flag (\*Note: See the Record Flag Reports Menu section for more details on each report:
  - Assignment Action Not Linked Report
  - Flag Assignment Report
  - Patient Assignments Report
  - Assignments Due For Review Report
  - Assignments Approved by Report.

# **3** Routines

This section provides a list of routines or instruct the user how/where to find this information online:

### 3.1 Routines To Map

Routine mapping is not required with VMS/Cache systems.

### 3.2 Callable Routines

#### Table 4: Callable Routines

Callable Routine	Description
\$\$GETACT^DGPFAPI	Obtain active Patient Record Flag assignments
\$\$INSTPCTM^SCAPMC	Institution & team for pt's pc team
\$\$PRCL^SCAPMC	Practitioners for a Clinic
\$\$PRPT^SCAPMC	Practitioners for a Patient
\$\$PRTM^SCAPMC	Practitioners for a Team
\$\$PTTM^SCAPMC	Patients for a Team
\$\$SITE^VASITE	Obtain Station Number Information
\$\$TMPT^SCAPMC	Teams for a Patient
DGINPW	Obtain Inpatient Status
DGPMLOS	Obtain Length of Stay by Admission
\$\$GETALL^SCAPMCA	Return assignment information
\$\$OUTPTAP^SDUTL3	Return associate pc provider information
\$\$OUTPTRP^SDUTL3	Return primary care provider information
\$\$DATA2PTF^DGAPI	Send data to PTF
CPTINFO^DGAPI	Get CPTs from PTF
PTFINFOR^DGAPI	Delete CPTs from PTF
\$\$DELCPT^DGAPI	Get Prof Serv Dates from PTF

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Callable Routine	Description
\$\$DELPOV^DGAPI	Delete POVs from PTF
ICDINFO^DGAPI	Get ICDs from PTF
\$\$SDAPI^SDAMA301	Get Appointments
GETAPPT^SDAMA201	Get Appointments for a Patient
NEXTAPPT^SDAMA201	Get Next Appointment (1 Appointment) for a Patient
GETPLIST^SDAMA202	Get Appointments for a Clinic
\$\$PATAPPT^SDAMA204	Does Patient Have Any Appointments?
\$\$SDIMO^SDAMA203	Scheduling API for IMO
SDOE	ACRP Interface Toolkit
SDQ	ACRP Interface Toolkit
SDUTL3	Utility to enter and view primary care fields
\$\$COMMANUM^VAFCADT2	Build a list of numbers separated by comma
VACPT	Display CPT Copyright Info
VADATE	Generic Date Routine
VADPT	Obtain Patient Information
VALM	List Manager
BLDPID^VAFCQRY	Builds the PID HL7 segment
\$\$EVN^VAFHLEVN	Builds the EVN HL7 segment
\$\$EN^VAFHLPD1	Builds the PD1 HL7 segment
\$\$SITE^VASITE	Returns the institution and station numbers
VAFMON	Obtain Income or Dependent Information
VATRAN	Establish VADATS Transmission Variables
VATREDIT	Enter/Edit TRANSMISSION ROUTERS File

Callable Routine	Description	
VAUQWK	Quick Lookup for Patient Data	
VAUTOMA Generic One, Many, All Routine		
See the Package-Wide Variables section of this manual for entry points.		

PIMS

## 3.3 Compiled Template Routines

It is recommended you recompile the following templates at 4000 bytes.

#### 3.3.1 Input Templates

#### Table 5: Input Templates

FILE #	TEMPLATE NAME	ROUTINES
2	DG CONSISTENCY CHECKER	DGRPXC*
	DG LOAD EDIT SCREEN 7	DGRPXX7*
	DGRP COLLATERAL REGISTER	DGRPXCR*
	SDM1	SDM1T*
40.8	DGTS	DGXTS
44	SDB	SDBT*
45	DG PTF CREATE PTF ENTRY	DGPTXC*
	DG PTF POST CREATE	DGPTXCA*
	DG 101	DGPTX1*
	DG 401	DGPTX4*
	DG401-10P	DGX4*
	DG 501	DGPTX5*
	DG501-10D	DGX5*
	DG 501F	DGX5F*
	DG501F-10D	DGX5FD*
	DG601-10P	DGX6*
	DG 701	DGPTX7*
	DG701-10D	DGX7*
45.5	DG PTF ADD MESSAGE	DGPTXMS*
46.1	DG801	DGPTX8*
405	DGPM ADMIT	DGPMX1*
	DGPM TRANSFER	DGPMX2*
	DGPM DISCHARGE	DGPMX3*
	DGPM CHECK-IN LODGER	DGPMX4*
	DGPM LODGER CHECK-OUT	DGPMX5*
	DGPM SPECIALTY TRANSFER	DGPMX6*
	DGPM ASIH ADMIT	DGPMXA*

FILE #	TEMPLATE NAME	ROUTINES
408.21	DGMT ENTER/EDIT ANNUAL INCOME	DGMTXI
	DGMT ENTER/EDIT EXPENSES	DGMTXE
	DGRP ENTER/EDIT ANNUAL	
	INCOME	DGRPXIS
	DGRP ENTER/EDIT MON BENEFITS	DGRPXMB
408.22	DGMT ENTER/EDIT DEPENDENTS	DGMTXD
	DGMT ENTER/EDIT MARITAL STATUS	DGMTXM
408.31	DGMT ENTER/EDIT COMPLETION	DGMTXC
409.5	SDAMBT	SDXA*
	SDXACSE	SDXACSE*
409.68	SD ENCOUNTER ENTRY	SDAMXOE*
	SD ENCOUNTER LOG	SDAMXLG

#### **3.3.2 Print Templates**

#### Table 6: Print Templates

FILE #	TEMPLATE NAME	ROUTINES
45	DG PTF PT BRIEF LIST	DGPTXB*
45.86	DGPT QUICK PROFILE	DGPTXCP*
409.65	SDAMVLD	SDAMXLD

#### 3.3.3 Compiled Cross-Reference Routines

FILE #	TEMPLATE NAME	ROUTINES
45	PTF	DGPTXX*
405	PATIENT MOVEMENT	DGPMXX*
408.21	INDIVIDUAL ANNUAL INCOME	DGMTXX1*
408.22	INCOME RELATION	DGMTXX2*
408.31	ANNUAL MEANS TEST	DGMTXX3*

#### 3.4 Routine List

The following are the steps you may take to obtain a listing of the routines contained in the PIMS package.

- 1. Programmer Options Menu
- 2. Routine Tools Menu
- 3. First Line Routine Print Option
- 4. Routine Selector: DG\* (ADT) SD\* SC\* (Scheduling)

#### 3.5 New and Modified Routines

#### 3.5.1 Patch DG\*5.3\*869 Routines

The following new and modified routines were exported by patch DG\*5.3\*869 – DGPF NEW PATIENT RECORD FLAG – MISSING PATIENT. Not all routines can or should be used. Please refer to the outstanding Integration Agreement before attempting to use these routines:

#### Table 8: Patch DG\*5.3\*869 Routines

NEW DG ROUTINES	MODIFIED DG ROUTINES
DG53869P	There are no conversions for this patch.

#### 3.5.2 Patch SD\*5.3\*588 Routines

The following new and modified routines were exported by patch SD\*5.3\*588 - HIGH RISK MENTAL HEALTH PROACTIVE REPORT. Not all routines can or should be used. Please refer to the outstanding Integration Agreement before attempting to use these routines:

#### Table 9: Patch SD\*5.3\*588 Routines

NEW SD ROUTINES	MODIFIED SD ROUTINES
SDMHAP	SDAMQ
SDMHAP1	SDMHAD
SDMHPRO	SDMHAD1
SDMHPRO1	SDMHNS
	SDMHNS1

#### 3.5.3 Patch DG\*5.3\*849 Routines

These new DG routines were exported by patch DG\*5.3\*849 - DGPF NEW CAT1 FLAG AND CONVERSION. Not all routines can or should be used. Please refer to the outstanding Integration Agreement before attempting to use these routines:

Table 10: Patch DG\*5.3\*849 Routines

NEW DG ROUTINES	MODIFIED DG ROUTINES
DG53849P	
DGPFCNR	
DGPFCNV	

#### 3.5.4 Patch SD\*5.3\*578 Routines

**SD\*5.3\*578** - These are the new and modified routines. Not all can or should be used. Please refer to the outstanding Integration Agreement before attempting to run these.

**SDMHAD** - This is the High Risk Mental Health AD Hoc No show Report entry point that the user can run to display the report. This report will display all patients that did not show up for their scheduled appointment for a Mental Health clinic. It will list patient contact information, Next of Kin, emergency contact, clinic default provider, future scheduled appointments and results of attempts to contact the no showed patients. The user is asked for various sort criteria , a date range, divisions to display (one, many, all), and sort by Clinic, Reminder Location or Stop Codes (one, many, all)

**^SDMHAD1 -** This is the print routine for the High Risk Mental Health AD HOC No Show Report. The report lists the patient that no showed for the mental health appointment, the date the of the appointment, the clinic and stop code. It also lists the contact information for the patient, the Next of Kin, emergency contacts, clinic provider, future scheduled appointments and results of efforts in contacting the patient.

**^SDMHNS -** This is the High Risk Mental Health No show Report entry point that is called by the scheduling background job. This report will display all patients that did not show up for their scheduled appointment for a Mental Health clinic. It will list patient contact information, Next of Kin, emergency contact, clinic default provider, future scheduled appointments and results of attempts to contact the no showed patients. The user will not be asked any sort criteria, the report will list for the day before the background job run, for all the divisions in the facility and mental health clinics in the facility. The report will be sent via email to those persons that are in the SD MH NO SHOW NOTIFICATION mail group.

**^SDMHNS1 -** This is the print routine for the High Risk Mental Health No Show Report run from the scheduling nightly background job. The report lists the patient that no showed for the mental health appointment, the date the of the appointment, the clinic and stop code. It also lists the contact information for the patient, the Next of Kin, emergency contacts, clinic provider, future scheduled appointments and results of efforts in contacting the patient. The report will be sent via email to those persons that are in the SD MH NO SHOW NOTIFICATION mail group.

#### SDAMQ modified

^SDAMQ G STARTQ:'\$\$SWITCH

- N SDSTART, SDFIN
- K ^TMP("SDSTATS",\$J)

- S SDSTART=\$\$NOW^SDAMU D ADD^SDAMQ1
- D EN^SDAMQ3(SDBEG,SDEND) ; appointments
- D EN^SDAMQ4(SDBEG,SDEND) ; add/edits
- D EN^SDAMQ5(SDBEG,SDEND) ; dispositions
- D EN^SDMHNS ;High Risk Mental Health NO Show report
- S SDFIN=\$\$NOW^SDAMU D UPD^SDAMQ1(SDBEG,SDEND,SDFIN,.05)
- D BULL^SDAMQ1

#### 3.5.5 Patch DG\*5.3\*836 Routines

**DG\*5.3\*836** - This Registration Patient Record Flag patch provides new interfaces used by the Scheduling and Reminder patches to determine the High Risk for Suicide flag status on a specified date.

**GETINF^DGPFAPIH** - DGPFAPIH is both a Routine and API Integration agreement. DGPFAPIH - This routine implements the two Application Programming Interface call points for retrieving Patient Record Flag information. One call point is for a specific patient and record and the second call point is for a list of patients with a specific, active, Patient Record Flag.

This API will obtain the Patient Record Flag assignment information and status for the specified patient, patient record flag and date range. The return data will be provided in an array using the target\_root specified by the user or in the default array variable DGPFAPI1. The DATE/TIME field (#.02) of the PRF ASSIGNMENT HISTORY File (#26.14) entry will determine whether the entry falls within the specified date range. If no date range is specified, all entries will be returned

**GETLST^DGPFAPIH** - This API will retrieve a list of patients active at some point within a specified date range for a specified Patient Record Flag. The date range is required for this API, though the same date can be entered to specify a single date. The return data will be provided in an array using the target root specified by the user or in the default array variable DGPFAPI2. The DATE/TIME field (#.02) of the PRF ASSIGNMENT HISTORY File (#26.14) entry will determine whether the entry falls within the specified date range.

**BLDMAIN^DGPFAPIH** - This API builds the main return array for the specified patient. The array contains the PRF assignment data retrieved from the appropriate Local or National assignment file

**BLDHIST^DGPFAPIH** - This API collects and builds the return array containing the PRF assignment history data.

**ACTIVE^DGPFAPIU -** DGPFAPIU - This routine provides support utilities and functions for the new Application Programming Interface calls.

This procedure will check if the Patient Record Flag was active at any point during the specified date range. The procedure accepts a date range parameter which specifies whether "A"ll dates or only a "S"pecified date range is to be checked.

The PRF Assignment History File (#26.14) was not designed for this type of date interaction so the algorithm in this procedure has to make a number of assumptions when interpreting the dates and PRF actions. While there can only be one "New Assignment" entry, it is possible to have multiple "Continue", "Inactivate" and "Reactivate" action entries. In addition, the "Entered In Error" action can pose additional issues with determining a status during a specific date range.

**CHKDATE^DGPFAPIU** - Check for valid start and end dates. Set up the DGRANGE parameter with the validated dates and set DGRANGE top element to "A" for all dates, or "S" for a specific range of dates

**CHKDFN^DGPFAPIU** - This function checks for a valid patient by checking the DFN in the Patient File (#2). If a valid patient is found, the patient name is returned, otherwise, the error text from the DIQ call is returned.

**ASGNDATE^DGPFAPIU** - Get the initial Assignment Date/Time of the Patient Record Flag by looking for the "NEW ASSIGNMENT" action in the PRF ASSIGNMENT HISTORY File (#26.14).

**GETFLAG^DGPFAPIU** - This function gets the variable pointer value for the Patient Record Flag passed in. The PRF is passed in as a text value. If the optional flag category is passed in, only that category will be checked for the PRF. If no category is passed in, then first the National category will be checked.

### 3.5.6 Patch SD\*5.3\*622 Routines

**START^SDCP** - This API initializes SDPRTTOF variable that is a Flag to indicate whether or not to print the Top of Form header or not. Telephone Extension has been added to the Clinic Profile and this variable helps to ensure that the Header prints one time per Clinic.

**PRT^SDCP** - This API prints the new TELEPHONE EXTENSION field from HOSPITAL LOCATION file on the Clinic Profile and also sets SDPRTTOF variable mentioned above back to 1 so that Header can print for next Clinic that gets output.

**TOF^SDCP** - This API checks if SDPRTTOF is flagged with a 1 and, if so, allows the printing of the Header. It also resets SDPRTTOF to 0 to prevent excessive printing of TOF.

**WRAPP^SDLT** - This API now has logic to re-format the Clinic Name so that it lines up with Telephone, Location, and Default Provider information.

**FORM^SDLT** - This API now prints new TELEPHONE EXTENSION field from HOSPITAL LOCATIOON file in addition to TELEPHONE, LOCATION & DEFAULT PROVIDER information from same File. It checks the PRINT DEFAULT PROVIDER? & PRINT CLINIC LOCATION? Fields from LETTER File before printing the LOCATION & DEFAULT PROVIDER.

**TST^SDLT** - This API does some new formatting of the other TESTS that have been scheduled for the patient.

**M^SDM0** - This API displays the Desired Date for the appointment that has been entered by the user when an appointment is scheduled. A 3 second delay occurs during the display.

**D^SDM0** - This API now displays the Clinic Name with the Scheduling Grid.

**LET^SDM1A** - This API prints the Pre-Appointment Letter after a single appointment is scheduled if the user chooses to do so AND there is a Pre-Appointment letter assigned to the Clinic.

**S1^SDMM1** - This API will file the Desired Date entered by the user in the 1<sup>st</sup> Appointment when MultiBooking occurs and for subsequent appointments that recur either Daily or Weekly it stores Desired Date as the Appointment Date.

**OVR^SDNACT** - This API saves off the Inactivation Date for the Clinic for use in Mail Delivery (see below).

**MAIL^SDNACT** - This API sends mail to all members of the new SD CLINIC INACTIVATE REMINDER Mail Group that gets created with the post install routine SD53622P for this patch.

### 3.5.7 Patch DG\*5.3\*903 Routines

This patch addresses NSR # 20150314 - Increase Engagement in My HealtheVet (IEMHV). The Preregister a Patient [DGPRE PRE-REGISTER OPTION] option, in the VistA Registration V.5.3 package, was enhanced to display a message alerting the registration clerk to engage with the selected patient regarding the patient's registration status for My HealtheVet. The clerk should document that status, any registration assistance rendered, or the Veteran's desire to be excluded from My HealtheVet registration. Recent assistance with the patient's My HealtheVet registration is displayed within the alert/reminder.

There is no interface with My HealtheVet. This is only a mechanism to engage directly with the patient to encourage him/her to register for My HealtheVet.

The MAS PARAMETERS (#43) file and the MAS Parameter Entry/Edit [DG PARAMETER ENTRY] option were enhanced to allow for this new functionality to be disabled/enabled. This functionality will be turned off automatically during the post install for this patch.

The following new routines are being added to support this patch:

- DG903PST Post install routine which does the following:
  - Adds entry 315 in INCONSISTENT DATA ELEMENTS file (#38.6)
  - Disables Increase Veteran Engagement in My HealtheVet Prompts in the MAS PARAMETERS (#43) file.
- DGMHV:
  - EN API Entry Point for Alert, Socialization, and My HealtheVet Engagement field editing screen. This functionality will only be executed if the ENABLE MY HEALTHEVET PROMPTS? (#1100.07) field in the MAS PARAMETERS (#43) file is set to YES (internal value 1).
  - MAIN API Main Entry Point for My HealtheVet socialization text/action.
  - SOCIAL API My HealtheVet Engagement talking point/socialization text action. Display My HealtheVet socialization canned text, prompt for patient response, display and prompt for clerk action.
- DGMHVAC:

- EN API Entry point for My HealtheVet Engagement screen.
- MAIN API Main Driver for My HealtheVet Engagement screen.
- ENROLLQ API Prompt for "My HealtheVet Registered"
- AUTHENQ API Prompt for "My HealtheVet Authenticated"
- o OPTINQ API Prompt for "Opted in for My HealtheVet Secure Messaging"
- ENROLL API My HealtheVet Register processing
- o AUTHENT API Authenticated My HealtheVet account status processing
- SECMSG API Secure Messaging processing
- MHVOK API Check patient's MHV registration information to determine if the alert should be activated or deactivated.
- DGMVUTL Contains numerous APIs utilized by the other listed routines.

The following existing routines are being updated to support this patch:

- DGPAR PREREG subroutine Updated to display value of the ENABLE MY HEALTHEVET PROMPTS?" (#1100.07) field in the MAS PARAMETERS (#43) file.
- DGPAR1 Updated to allow the edit of the ENABLE MY HEALTHEVET PROMPTS? (#1100.07) field in the MAS PARAMETERS (#43) file.
- DGPREP1 DIREDT API Updated to include the new "Increase Engagement in My HealtheVet" prompts to display and prompt for updates from the clerk.
- DGRPC EN API Updated to include the new 315 Consistency Check for "Increase Engagement in My HealtheVet"
- DGRPC3 Added 315 subroutine to include the new 315 Consistency Check Editing functionality.
- DGRPCE1– Updated to include 315 Consistency Check Editing functionality when necessary "Increase Engagement in My HealtheVet" data fields have not been updated.

## 3.5.8 Patch DG\*5.3\*960 Routines

The following new and modified routines were exported by patch DG\*5.3\*960 – PATIENT RECORD FLAG REPORTS. Not all routines can or should be used. Please refer to the outstanding Integration Agreement before attempting to use these routines:

Table 11 : Patch DG\*5.3\*960 Routines

NEW DG ROUTINES	MODIFIED DG ROUTINES
DGPFAAH2	DGPFLMT

NEW DG ROUTINES	MODIFIED DG ROUTINES
DGPFUT63	DGPFLMT1
DGPFUT7	DGPFRAL
	DGPFRAL1
	DGPFRFA
	DGPFRFA1

# 4 Files

This section provides a list of the software files. For each file, include the file number, file name, a list of any special templates (print, sort, input, edit) that come with the file, and brief description of the data or instruct the user how/where to find this information online. Indicate what data comes with the files and whether or not that data overwrites existing data. Optionally include information about file pointer relationships.

### 4.1 Globals and Files

The main globals used in the PIMS package are ^DG, ^DPT, ^DGPM, ^SC, and ^SCE.

The main files are PATIENT, PATIENT MOVEMENT, MAS MOVEMENT TYPE, PTF, CENSUS, WARD LOCATION, and HOSPITAL LOCATION.

The PIMS Package also uses globals ^DGSL, ^DGIN, ^DGS, ^DGAM, ^DGCPT, ^DGICD9, ^DGWAIT, ^DGPR, ^DGMT, ^DGPT, ^DGM, ^DGMHV, ^DGNT, ^DGP, ^DGPF, ^DGQE, ^ICPT, ^VA, ^VAS, ^VAT, ^DIC, ^SCPT, ^SCTM, ^SDASF, ^SDASE, ^SDV, ^SD, ^SDD.

Journaling of the following globals is mandatory: ^DPT, ^DGEN, ^DGPT, ^DGPM, ^SDV, ^SC, ^SCE, ^SCTM, ^SDD.

Journaling of the following globals is optional: ^DGS, ^DG.

Journaling of the following global is recommended: ^DGPF.

### 4.2 File List

FILE NUMBER	FILE NAME	GLOBAL
2	PATIENT	^DPT(
5	STATE	^DIC(5,
8	ELIGIBILITY CODE	^DIC(8,
8.1**	MAS ELIGIBILITY CODE	^DIC(8.1,
8.2*	IDENTIFICATION FORMAT	^DIC(8.2,
10*	RACE	^DIC(10,
11**	MARITAL STATUS	^DIC(11,
13*	RELIGION	^DIC(13,
21**	PERIOD OF SERVICE	^DIC(21,
22**	POW PERIOD	^DIC(22,
23*	BRANCH OF SERVICE	^DIC(23,
25*	TYPE OF DISCHARGE	^DIC(25,
26.11	PRF LOCAL FLAG	^DGPF(26.11,

#### Table 12: File List

FILE NUMBER	FILE NAME	GLOBAL
26.12	PRF LOCAL FLAG HISTORY	^DGPF(26.12,
26.13	PRF ASSIGNMENT	^DGPF(26.13,
26.14	PRF ASSIGNMENT HISTORY	^DGPF(26.14,
26.15	PRF NATIONAL FLAG	^DGPF(26.15,
26.16	PRF TYPE	^DGPF(26.16,
26.17	PRF HL7 TRANSMISSION LOG	^DGPF(26.17,
26.18	PRF PARAMETERS	^DGPF(26.18,
26.19	PRF HL7 QUERY LOG	^DGPF(26.19,
26.21	PRF HL7 EVENT	^DGPF(26.21,
27.11	PATIENT ENROLLMENT	^DGEN(27.11,
27.12	ENROLLMENT QUERY	^DGEN(27.12,
27.14	ENROLLMENT / ELIGIBILITY UPLOAD AUDIT	^DGENA(27.14,
27.15	ENROLLMENT STATUS	^DGEN(27.15,
27.16	ENROLLMENT GROUP THRESHOLD	^DGEN(27.16,
27.17*	CATASTROPHIC DISABILITY REASONS	^DGEN(27.17,
28.11	NOSE AND THROAT RADIUM HISTORY	^DGNT(28.11,
29.11	MST HISTORY	^DGMS(29.11,
30**	DISPOSITION LATE REASON	^DIC(30,
35*	OTHER FEDERAL AGENCY	^DIC(35,
35.1	SHARING AGREEMENT CATEGORY	^DG(35.1,
35.2	SHARING AGREEMENT SUB- CATEGORY	^DG(35.2)
37**	DISPOSITION	^DIC(37,
38.1	DG SECURITY LOG	^DGSL(38.1,
38.5	INCONSISTENT DATA	^DGIN(38.5,
38.6**	INCONSISTENT DATA ELEMENTS	^DGIN(38.6,
39.1*	EMBOSSED CARD TYPE	^DIC(39.1,
39.2*	EMBOSSING DATA	^DIC(39.2,
39.3	EMBOSSER EQUIPMENT FILE	^DIC(39.3,
39.4	ADT / HL7 TRANSMISSION	^DIC(39.4,
39.6	VIC REQUEST	^DGQE(39.6,
39.7	VIC HL7 TRANSMISSION LOG	^DGQE(39.7,

FILE NUMBER	FILE NAME	GLOBAL
40.7*	CLINIC STOP	^DIC(40.7,
40.8	MEDICAL CENTER DIVISION	^DG(40.8,
40.9**	LOCATION TYPE	^DIC(40.9
41.1	SCHEDULED ADMISSION	^DGS(41.1,
41.41	PRE-REGISTRATION AUDIT	^DGS(41.41,
41.42	PRE-REGISTRATION CALL LIST	^DGS(41.42,
41.43	PRE-REGISTRATION CALL LOG	^DGS(41.43,
41.9	CENSUS	^DG(41.9,
42	WARD LOCATION	^DIC(42,
42.4*	SPECIALTY	^DIC(42.4,
42.5	WAIT LIST	^DGWAIT(
42.55**	PRIORITY GROUPING	^DIC(42.55,
42.6	AMIS 334-341	^DGAM(334,
42.7	AMIS 345&346	^DGAM(345,
43	MAS PARAMETERS	^DG(43,
43.1	MAS EVENT RATES	^DG(43.1,
43.11**	MAS AWARD	^DG(43.11,
43.4**	VA ADMITTING REGULATION	^DIC(43.4,
43.5	G&L CORRECTIONS	^DGS(43.5,
43.61	G&L TYPE OF CHANGE	^DG(43.61,
43.7**	ADT TEMPLATE	^DG(43.7,
44	HOSPITAL LOCATION	^SC(
45	PTF	^DGPT(
45.1**	SOURCE OF ADMISSION	^DIC(45.1,
45.2	PTF TRANSFERRING FACILITY	^DGTF(
45.3*	SURGICAL SPECIALTY	^DIC(45.3,
45.4*	PTF DIALYSIS TYPE	^DG(45.4,
45.5	PTF MESSAGE	^DGM(
45.6*	PLACE OF DISPOSITION	^DIC(45.6,
45.61*	PTF ABUSED SUBSTANCE	^DIC(45.61,
45.64*	PTF AUSTIN ERROR CODES	^DGP(45.64,
45.68	FACILITY SUFFIX	^DIC(45.68,

FILE NUMBER	FILE NAME	GLOBAL
45.7	FACILITY TREATING SPECIALTY	^DIC(45.7,
45.81*	STATION TYPE	^DIC(45.81,
45.82*	CATEGORY OF BENEFICIARY	^DIC(45.82,
45.83	PTF RELEASE	^DGP(45.83,
45.84	PTF CLOSE OUT	^DGP(45.84,
45.85	CENSUS WORKFILE	^DG(45.85,
45.86*	PTF CENSUS DATE	^DG(45.86,
45.87	PTF TRANSACTION REQUEST LOG	^DGP(45.87,
45.88*	PTF EXPANDED CODE CATEGORY	^DIC(45.88,
45.89*	PTF EXPANDED CODE	^DIC(45.89,
45.9	PAF	^DG(45.9,
45.91	RUG-II	^DG(45.91,
46	INPATIENT CPT CODE	^DGCPT(46
46.1	INPATIENT POV	^DGICT9(46.1,
47**	MAS FORMS AND SCREENS	^DIC(47,
48**	MAS RELEASE NOTES	^DG(48,
48.5**	MAS MODULE	^DG(48.5,
389.9	STATION NUMBER (TIME SENSITIVE)	^VA(389.9,
390	ENROLLMENT RATED DISABILITY UPLOAD AUDIT	^DGRDUA(390,
390.01	MHV SOCIALIZATION	^DGMHV(390.01,
390.02	MHV SOCIALIZATION ACTIONS	^DGMHV(390.02,
390.03	MHV DECLINED REASONS	^DGMHV(390.03,
390.04	MHV ACTION SELECTION	^DGMHV(390.04,
391**	TYPE OF PATIENT	^DG(391,
391.1	AMIS SEGMENT	^DG(391.1,
391.31	HOME TELEHEALTH PATIENT	^DGHT(391.31,
403.35	SCHEDULING USER PREFERENCE	^SCRS(403.35,
403.43*	SCHEDULING EVENT	^SD(403.43,
403.44*	SCHEDULING REASON	^SD(403.44,
403.46*	STANDARD POSITION	^SD(403.46,
403.47*	TEAM PURPOSE	^SD(403.47,
404.41	OUTPATIENT PROFILE	^SCPT(404.41,

FILE NUMBER	FILE NAME	GLOBAL
404.42	PATIENT TEAM ASSIGNMENT	^SCPT(404.42,
404.43	PATIENT TEAM POSITION ASSIGNMENT	^SCPT(404.43,
404.44	PCMM PARAMETER	^SCTM(404.44,
404.45	PCMM SERVER PATCH	^SCTM(404.45,
404.46	PCMM CLIENT PATCH	^SCTM(404.46,
404.471	PCMM HL7 TRANSMISSION LOG	^SCPT(404.471,
404.472	PCMM HL7 ERROR LOG	^SCPT(404.472,
404.48	PCMM HL7 EVENT	^SCPT(404.48,
404.49	PCMM HL7 ID	^SCPT(404.49,
404.51	ТЕАМ	^SCTM(404.51,
404.52	POSITION ASSIGNMENT HISTORY	^SCTM(404.52,
404.53	PRECEPTOR ASSIGNMENT HISTORY	^SCTM(404.53,
404.56	TEAM AUTOLINK	^SCTM(404.56,
404.57	TEAM POSITION	^SCTM(404.57,
404.58	TEAM HISTORY	^SCTM(404.58,
404.59	TEAM POSITION HISTORY	^SCTM(404.59,
404.61	MH PCMM STOP CODES	^SCTM(404.61,
404.91	SCHEDULING PARAMETER	^SD(404.91,
404.92*	SCHEDULING REPORT DEFINTION	^SD(404.92,
404.93*	SCHEDULING REPORT FIELDS DEFINITION	^SD(404.93,
404.94*	SCHEDULING REPORT GROUP	^SD(404.94,
404.95*	SCHEDULING REPORT QUERY TEMPLATE	^SD(404.95,
404.98	SCHEDULING CONVERSION SPECIFICATION	^SD(404.98,
405	PATIENT MOVEMENT	^DGPM(
405.1	FACILITY MOVEMENT TYPE	^DG(405.1,
405.2**	MAS MOVEMENT TYPE	^DG(405.2,
405.3**	MAS MOVEMENT TRANSACTION TYPE	^DG(405.3,
405.4	ROOM-BED	^DG(405.4,
405.5**	MAS OUT-OF-SERVICE	^DG(405.5,
405.6	ROOM-BED DESCRIPTION	^DG(405.6,

FILE NUMBER	FILE NAME	GLOBAL
406.41**	LODGING REASON	^DG(406.41,
407.5	LETTER	^VA(407.5,
407.6**	LETTER TYPE	^VA(407.6,
407.7**	TRANSMISSION ROUTERS	^VAT(407.7,
408	DISCRETIONARY WORKLOAD	^VAT(408,
408.11*	RELATIONSHIP	^DG(408.11,
408.12	PATIENT RELATION	^DGPR(408.12,
408.13	INCOME PERSON	^DGPR(408.13,
408.21	INDIVIDUAL ANNUAL INCOME	^DGMT(408.21,
408.22	INCOME RELATION	^DGMT(408.22,
408.31	ANNUAL MEANS TEST	^DGMT(408.31,
408.32**	MEANS TEST STATUS	^DG(408.32,
408.33**	TYPE OF TEST	^DG(408.33,
408.34**	SOURCE OF INCOME TEST	^DG(408.34,
408.41	MEANS TEST CHANGES	^DG(408.41,
408.42**	MEANS TEST CHANGES TYPE	^DG(408.42,
409.1**	APPOINTMENT TYPE	^SD(409.1,
409.2**	CANCELLATION REASONS	^SD(409.2,
409.41**	OUTPATIENT CLASSIFICATION TYPE	^SD(409.41,
409.42	OUTPATIENT CLASSIFICATION	^SDD(409.42,
409.45**	OUTPATIENT CLASSIFICATION	^SD(409.45,
STOP CODE EXCE	PTION	
409.62**	APPOINTMENT GROUP	^SD(409.62,
409.63**	APPOINTMENT STATUS	^SD(409.63,
409.64	QUERY OBJECT	^SD(409.64,
409.65	APPOINTMENT STATUS UPDATE LOG	^SDD(409.65,
409.66**	APPOINTMENT TRANSACTION TYPE	^SD(409.66
409.67	CLINIC GROUP	^SD(409.67,
409.68	OUTPATIENT ENCOUNTER	^SCE(
409.73	TRANSMITTED OUTPATIENT ENCOUNTER	^SD(409.73,
409.74	DELETED OUTPATIENT ENCOUNTER	^SD(409.74,

FILE NUMBER	FILE NAME	GLOBAL
409.75	TRANSMITTED OUTPATIENT ENCOUNTER ERROR	^SD(409.75,
409.76**	TRANSMITTED OUTPATIENT ENCOUNTER	^SD(409.76,
ERROR CODE		
409.77	ACRP TRANSMISSION HISTORY	^SD(409.77,
409.91	ACRP REPORT TEMPLATE	^SDD(409.91,
409.92	ACRP REPORT TEMPLATE PARAMETER	^SD(409.92,

\*File comes with data.

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

# 5 Files and Templates in the PIMS Package

The following are the steps you may take to obtain information concerning the files and templates contained in the PIMS package.

## 5.1 File Flow (Relationships between files)

- 1. VA FileMan Menu
- 2. Data Dictionary Utilities Menu
- 3. List File Attributes Option
- 4. Enter File # or range of File #s
- 5. Select Listing Format: Standard

6. You will see what files point to the selected file. To see what files the selected file points to, look for fields that say "POINTER TO".

### 5.2 Templates

- 1. VA FileMan Menu
- 2. Print File Entries Option
- 3. Output from what File:
  - Print Template
  - Sort Template
  - Input Template
  - List Template
- 4. Sort by: Name
- 5. Start with name: DG to DGZ, VA to VAZ, (ADT) SD to SDZ, SC to SCZ (scheduling)
- 6. Within name, sort by: <RET>
- 7. First print field: Name

### 5.3 VA FileMan Functions

Included with the ACRP Reports Menu is the FileMan function, SCRPWDATA. This function can be used from within the OUTPATIENT ENCOUNTER file to provide any of the following data elements as data within FileMan output. It may be used to sort or print data.

This function has one argument which is the name (or acronym) of the data element you wish to return. For example, if you wish to sort or print a patient's current GAF score, the function could be used as follows.

```
THEN PRINT FIELD: SCRPWDATA("GAF SCORE (CURRENT)");"CURRENT GAF SCORE";L8
(OR)
THEN PRINT FIELD: SCRPWDATA("DXGC");"CURRENT GAF SCORE";L8
```

VA FileMan Function Data elements that have multiple values (like procedure codes, diagnoses, etc.) are returned as a single semicolon delimited string which may be as long as 245 characters. Some data of these elements may be omitted due to truncation to stay within this limit.

The following is a list of data elements and associated acronyms that may be specified as arguments to the SCRPWDATA function.

#### Table 13: VA Fileman Functions

DATA ELEMENT	ACRONYM	
CATEGORY: AMBULATORY PROCEDURE		
EVALUATION & MANAGEMENT CODES APEM		
AMBULATORY PROCEDURE (NO E&M CODES)	APAP	
ALL AMBULATORY PROCEDURE CODES	APAC	
CATEGORY: CLINIC		
CLINIC NAME	CLCN	
CLINIC GROUP	CLCG	
CLINIC SERVICE	CLCS	
CATEGORY: DIAGNOSIS		
PRIMARY DIAGNOSIS	DXPD	
SECONDARY DIAGNOSIS	DXSD	
ALL DIAGNOSES	DXAD	
GAF SCORE (HISTORICAL)	DXGH	
GAF SCORE (CURRENT)	DXGC	
CATEGORY: ENROLLMENT (CURRENT)		
ENROLLMENT DATE (CURRENT) ECED		
SOURCE OF ENROLLMENT (CURRENT)	ECSE	
ENROLLMENT STATUS (CURRENT)	ECES	

DATA ELEMENT	ACRONYM	
ENROLLMENT FACILITY RECEIVED (CURRENT)	ECFR	
ENROLLMENT PRIORITY (CURRENT)	ECEP	
ENROLLMENT EFFECTIVE DATE (CURRENT)	ECEF	
CATEGORY: ENROLLMENT (HISTO	RICAL)	
ENROLLMENT DATE (HISTORICAL)	EHED	
SOURCE OF ENROLLMENT (HISTORICAL)	EHSE	
ENROLLMENT STATUS (HISTORICAL)	EHES	
ENROLLMENT FACILITY RECEIVED (HISTORICAL)	EHFR	
ENROLLMENT PRIORITY (HISTORICAL)	EHEP	
ENROLLMENT EFFECTIVE DATE (HISTORICAL)	EHEF	
CATEGORY: OUTPATIENT ENCOU	INTER	
PATIENT	OEPA	
ORIGINATING PROCESS TYPE	OEOP	
APPT. TYPE	OEAT	
STATUS	OEST	
ELIG. OF ENCOUNTER	PEPW	
MEANS TEST (HISTORICAL)	РЕМН	
MEANS TEST (CURRENT)	PEMC	
SC PERCENTAGE	PESP	
AGENT ORANGE EXPOSURE	PEAO	
IONIZING RADIATION EXPOSURE	PEIR	
SW ASIA CONDITIONS EXPOSURE	PEEC	
CATEGORY: PRIMARY CARE		
PC PROVIDER (HISTORICAL)	РСРН	
PC TEAM (HISTORICAL)	PCTH	
PC PROVIDER (CURRENT)	PCPC	
PC TEAM (CURRENT)	PCTC	
CATEGORY: PROVIDER		
PRIMARY PROVIDER	PRPP	
SECONDARY PROVIDER	PRSP	
ALL PROVIDERS	PRAP	
PRIMARY PROVIDER PERSON CLASS	PRPC	

DATA ELEMENT	ACRONYM	
SECONDARY PROVIDER PERSON CLASS	PRSC	
ALL PROVIDERS PERSON CLASS	PRAC	
CATEGORY: STOP CODE		
PRIMARY STOP CODE	SCPC	
SECONDARY STOP CODE	SCSC	
BOTH STOP CODES	SCBC	
CREDIT PAIR	SCCP	
CATEGORY: V FILE ELEMENT		
EXAMINATION	VFEX	
HEALTH FACTOR	VFHF	
IMMUNIZATION	VFIM	
PATIENT EDUCATION	VFPE	
TREATMENTS	VFTR	
SKIN TEST	VFST	

# 6 Exported Options

This section provides a list of the options exported with the **software**, indicating distribution of menus to users. Any restrictions on menu distribution are noted. When the option's availability is based on the level of system access requiring permissions the name of the type of access (e.g., security keys and/or roles) and authorization is included.

The following are the steps you may take to obtain information about menus, exported protocols, exported options, exported remote procedures, and exported HL7 applications concerning the PIMS package.

### 6.1 Menu Diagrams

- Programmers Options
- Menu Management Menu
- Display Menus and Options Menu
- Diagram Menus
- Select User or Option Name: O.DG Manager Menu (ADT) O.SDMGR (Scheduling)

### 6.2 Exported Protocols

- VA FileMan Menu
- Print File Entries Option
- Output from what File: PROTOCOL
- Sort by: Name
- Start with name: DG to DGZ, VA to VAZ (ADT) SD to SDZ, SC to SCZ (Scheduling)
- Within name, sort by: <RET>
- First print field: Name

### 6.3 Exported Options

- VA FileMan Menu
- Print File Entries Option
- Output from what File: OPTION
- Sort by: Name
- Start with name: DG to DGZ, VA to VAZ (ADT)
- SD to SDZ, SC to SCZ (Scheduling)
- Within name, sort by: <RET>
- First print field: Name

### 6.4 Exported Remote Procedures

- VA FileMan Menu
- Print File Entries Option
- Output from what File: REMOTE PROCEDURE
- Sort by: Name
- Start with name: DG to DGZ, VA to VAZ (ADT) SD to SDZ, SC to SCZ (Scheduling)
- Within name, sort by: <RET>
- First print field: Name

### 6.5 Exported HL7 Applications for Ambulatory Care Reporting

- HL7 Main Menu
- V1.6 Options Menu
- Interface Workload Option
- Look for AMBCARE-DHCP and NPCD-AAC\*

### 6.6 Exported HL7 Applications For Inpatient Reporting To National Patient Care Database

- HL7 Main Menu
- V1.6 Options Menu
- Interface Workload Option
- Look for VAFC PIMS and NPTF

### 6.7 Exported HL7 Applications for Home Telehealth Care Database

• DG HOME TELEHEALTH

\*AAC stands for Austin Automation Center. The name of that facility has been changed to Austin Information Technology Center.

### 6.8 Exported Scheduling Options

The following new and modified Scheduling options were exported by the SD\*5.3\*588 HIGH RISK MENTAL HEALTH PROACTIVE REPORT patch:

#### Table 14: Exported Scheduling Options

NEW SCHEDULING OPTIONS	MENU ASSIGNMENTs
High Risk MH Proactive Adhoc Report [SD MH PROACTIVE AD HOC REPORT] Option	Stand-Alone Option
High Risk MH Proactive Nightly Report [SD MH PROACTIVE BGJ REPORT] Run Routine	Stand-Alone Option

#### Table 15: Modified Scheduling Options

MODIFIED SCHEDULING OPTIONS	MENU ASSIGNMENTs
High Risk MH No-Show Adhoc Report [SD MH NO SHOW AD HOC REPORT] option	Stand-Alone Option
High Risk MH No-Show Nightly Report [SD MH NO SHOW NIGHTLY BGJ] Run Routine	Stand-Alone Option

#### Exported DG Option

The new Convert Local HRMH PRF to National Action [DGPF LOCAL TO NATIONAL CONVERT] option is exported by the DG\*5.3\*849 DGPF NEW CAT1 FLAG AND CONVERSION patch:

#### Table 16: New DG Option

NEW DG OPTION	MENU ASSIGNMENT
Convert Local HRMH PRF to National Action [DGPF LOCAL TO NATIONAL CONVERT] option	Stand-Alone Option

# 7 Archiving and Purging

This section describes the archiving capabilities of the software and any necessary instructions or guidelines:

## 7.1 Archiving

With the release of PIMS V. 5.3, a new archive / purge option has been created for PTF-related records. Please refer to the Release Notes for details.

## 7.2 Purging

The PIMS package allows for purging of data associated with log of user access to sensitive records, consistency checker, scheduled admissions, local breakeven data for DRGs, special transaction requests, and scheduling data. Following is a list of the purge options and where the documentation may be found in the user manual.

## 7.3 ADT Module

OPTION NAME	MENU NAME	
ADT MODULE		
Purge Breakeven Data for a Fiscal Year	PTF	
Purge Special Transaction Request Log	PTF	
Purge Non-Sensitive Patients from Security Log	Security Officer	
Purge Record of User Access from Security Log	Security Officer	
Purge Inconsistent Data Elements	Supervisor ADT	
Purge Scheduled Admissions	Supervisor ADT	
SCHEDULING MODU	ILE	
Purge Ambulatory Care Reporting files	Ambulatory Care Reporting	
Purge Appointment Status Update Log File	Supervisor	
Purge rejections that are past database close-out	Ambulatory Care Reporting	
Purge Scheduling Data	Supervisor	

#### Table 17: ADT and Scheduling Module Options

## 7.4 ACRP Database Conversion Option

The purpose of the database conversion is to convert old Scheduling encounter information into the Visit Tracking / Patient Care Encounter (PCE) database. Once you have converted all the data, you may wish to delete the old Scheduling files. A list of the files which may be deleted will be displayed when selecting the *Delete Old Files* action in this option. It is recommended you back up these files before deletion.

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## 7.5 HL7 Purger

It is recommended that the option Purge Message Text File Entries [HL PURGE TRANSMISSIONS] be scheduled to run every day or every other day.

# 8 Callable Routines/Entry Points/Application Program Interfaces

This section lists the callable routines, entry points, and Application Program Interfaces (APIs) that can be called by other software. Included is a brief description of the functions, required variables, and any restrictions.

## ^SDMHAD

This is the High Risk Mental Health AD Hoc No show Report entry point that the user can run to display the report. This report will display all patients that did not show up for their scheduled appointment for a Mental Health clinic. It will list patient contact information, Next of Kin, emergency contact, clinic default provider, future scheduled appointments, Mental Health Treatment Coordinator and care team and results of attempts to contact the no showed patients. The user is asked for various sort criteria , a date range, divisions to display (one, many, all), and sort by Clinic, Reminder Location or Stop Codes (one, many, all).

#### **^SDMHAD Routine Name Enhancement Category New** Modify No Change Delete SRS Traceability High Risk MH No-Show Adhoc Report [SD MH NO SHOW AD **Related Options** HOC REPORT] option **Related Routines Routines "Called By" Routines "Called"** NOW^%DTC **^SDMHNS** \$\$GETINF^DGPFAPIH CLOSE^DGUTQ WAIT^DICD LOCLIST^PXRMLOCF \$\$RANGE^SDAMQ ASK2^SDDIV ^SDMHAD1 ^SDMHNS1 **^VADATE** PID^VADPT6 FIRST^VAUTOMA PATIENT^VAUTOMA

#### Table 18: ^SDMHAD Routine

Routine Name	^SDMHAD	
Data Dictionary References	^DG(40.8       DIVISION         ^DIC(40.7       CLINIC STOP         ^DPT(       PATIENT         ^PXRMD(810.9       REMINDER LOCATION         ^SC(       HOSPITAL LOCATION         ^TMP(       ^TMP(\$J	
Related Protocols	N/A	
Related Integration Agreements	TBD	
Data Passing	Image: OutputImage: OutputImage: OutputImage: OutputImage: OutputInputReferenceBothReferenceLocal	
Input Attribute Name and Definition	Name: Definition:	
Output Attribute Name and Definition	Name: Definition:	
Current Logic		
N/A		
Modified Logic (Changes	are in bold)	
User is asked to choose the date range.		
User is asked to choose the Divisions in the facility (one, many, `all)		
User is asked to choose the sort criteria, by clinic, by Mental Health Clinic Quick List, by stop code ( one, many, all)		
If the sort is by the by Mental Health Clinic Quick List (by one, or many) Check API (LOCKLIST^PXRMLOCF) to find the clinics that are associated with the reminder list(s) that were chosen.		
Check to see if the division valid	n/clinic/stop have been selected and if the clinic and stop code are a	
mental health pair.		
	SDNSHOW",\$J with the valid choices te range that had a no show, no show auto rebook or no action nental health clinic	
-Loop through the ^TMP("SDNSHOW",\$J global		

Routine Name	^SDMHAD
Within that loop, check the appointment	Hospital Location "S" X-ref to see if the patient has an
In the date range ^SC(clinic,"S",date	
- If there is a r location or stop code)	match, set up the global ^TMP("SDNS", SORT ( clinic, reminder
Call ^SDMHAD1 routine to	print the report.

### **^SDMHAD1**

This is the print routine for the High Risk Mental Health AD HOC No Show Report. The report lists the patient that no showed for the mental health appointment, the date the of the appointment, the clinic and stop code. It also lists the contact information for the patient, the Next of Kin, emergency contacts, clinic provider, future scheduled appointments, Mental Health Treatment Coordinator and care team and results of efforts in contacting the patient.

#### Table 19: ^SDMHAD1 Routine

Routine Name	^SDMHAD1	
Enhancement Category	New Dodify Del	No Change ete
SRS Traceability		
Related Options	N/A	
Related Routines	Routines "Called By" Routines "Called"	
	^SDMHAD	C^%DTC \$\$GET1^DIQ ^DIR \$\$HLPHONE^HLFNC \$\$SDAPI^SDAMA301 HEAD^SDMHAD ^VADATE KVAR^VADPT OAD^VADPT PID^VADPT6

Routine Name	^SDMHA	D1				
Data Dictionary References	<ul> <li>^DIC(40.7 CLINIC STOP</li> <li>^DPT( PATIENT</li> <li>^SC( HOSPITAL LOCATION</li> <li>^TMP(</li> <li>^TMP(\$J</li> <li>^VA(200 NEW PERSON</li> </ul>					
Related Protocols	N/A					
Related Integration Agreements	N/A					
Data Passing	□ Input	COUTPO Reference		⊠ Both	Global     Reference	□ Local
Input Attribute Name and Definition	Name: Definition	):				
Output Attribute Name and Definition	Name: Definition	1:				
Current Logic						
N/A						
Modified Logic (Changes	are in bo	ld)				
The code will loop through the ^TMP("SDNS", SORT ( clinic, reminder location or stop code) global - A header will print for each division (alphabetical) which will include the						
following information: the				Delical)		
**The second lin example, sorts by clinic.	e will desi	gnate hov	v the repo	ort will be	sorted and prir	nted. This
MENTAL F BY CLINI	IEALTH NO C	SHOW REP	ORT		NOV 10,2010@0	9:34 PAGE 1
PATIENT		PT ID	EVENT	D/T	CLINIC	STOP CODE
**************************************		* * * * * * * * *	* * * * * * * * *	******	* * * * * * * * * * * * * *	****
If the sort is by the re	eminder loo	cation the	following	will print		
	IEALTH NO IDER LOCAI		ORT		NOV 10,2010@0	9:34 PAGE 1
PATIENT		PT ID ********	EVENT D/ *******		CLINIC	STOP CODE
					/A-MH QUERI PC	

Routine Name	^SDMHAD1		
•	- The patient name, ID, date of no showed appointment, clinic and the stop code		
will print			
For ea	ch patient listed, the following information if available will print:		
Patient phone numbers fo	r home, office, cell		
Next of Kin information, c	ontact, relationship to patient and address and phone numbers		
Emergency contact inform	nation, contact, relationship to patient, address and phone numbers	\$	
Default provider for the cli			
•	Coordinator and Care team (in Parenthesis)		
	ments, clinic, date and location of the clinic		
	internet, early location of the early control of th		
	mact the patient. (Information non-clinical terminder AFT)		
If these are no notion to the	haading will print with no records available		
In there are no patients the	e heading will print with no records available.	_	
10,2010@09:54 PA	MENTAL HEALTH NO SHOW REPORT NOV		
BY CLINI			
PATIENT	PT ID EVENT D/T CLINIC STOP COD	\F	
PAILENI	PI ID EVENI D/I CLINIC SIOP COD	'E	
* * * * * * * * * * * * * * * * * * *	***************************************		
	>>>>> NO RECORDS FOUND <<<<<		
		ļ	

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## **^SDMHNS**

This is the High Risk Mental Health No show Report entry point that is called by the scheduling background job. This report will display all patients that did not show up for their scheduled appointment for a Mental Health clinic. It will list patient contact information, Next of Kin, emergency contact, clinic default provider, future scheduled appointments Mental Health Treatment Coordinator and care team and results of attempts to contact the no showed patients. The user will not be asked any sort criteria, the report will list for the day before the background job run, for all the divisions in the facility and mental health clinics in the facility. The report will be sent to members of the SD MH NO SHOW NOTIFICATION mail group.

Routine Name	^SDMHNS	
Enhancement Category	New Modify Dele	☐ No Change ete
SRS Traceability		
Related Options	N/A	
Related Routines	Routines "Called By"	Routines "Called"
	^SDAMQ	C^%DTC NOW^%DTC HOME^%ZIS XMY^DGMTUTL \$\$LINE^SDMHAD \$\$LINE1^SDMHAD \$\$LINE1^SDMHAD \$\$SETSTR^SDMHNS1 SET1^SDMHNS1 ^VADATE ^XMD EN^XUTMDEVQ
Data Dictionary References	^TMP("SDNS" ^XMB(3.8 MAIL GROU	P
Related Protocols	N/A	
Related Integration Agreements	N/A	
Data Passing	D Output Input Reference	Image: Second
Input Attribute Name and Definition	Name: Definition:	

#### Table 20: ^SDMHNS Routine

Routine Name	^SDMHNS		
Output Attribute Name	Name:		
and Definition Definition:			
Current Logic			
N/A			
Modified Logic (Changes	are in bold)		
The variable SDXFLG is s	et to 1 ; This flag is set to 1 when running from the background Job		
The date range is set to T-	1 from the date the SD Nightly Background Job is run.		
The Division is set to ALL	the divisions in the facility.		
The sort criteria, is set All	Clinics.		
Call is made to START ^S	DMHAD		
Check to see if the division valid	/clinic/stop have been selected and if the clinic and stop code are a		
mental health pairSet ^TMP("SDNSHOW",\$J with the valid choices			
	Find the patients in the date range that had a no show appointment, no show auto rebook or no action taken for a mental health clinic		
-Loop through	the ^TMP("SDNSHOW",\$J global		
Within that loop, check the Hospital Location "S" X-ref to see if the patient has an appointment			
In the date range ^SC(clinic,"S",date			
- If there is a match, set up the global ^TMP("SDNS", SORT ( clinic, reminder location or stop code)			
Call to ^SDMHNS1 routine to set up the global ^TMP("SDNS",\$J, LINE NUMBER,0) that hold the data for sending an email message to all persons in the email group SD MH NO SHOW NOTIFICATION.			
Variables are set up to send the data in a mail message. SDGRP is set to the mail group number for SD MH NO SHOW NOTIFICATION XMSUB the subject of the email is set to MN NO SHOW REPORT MESSAGE			
	obal containing the data <pre></pre>		

Routine Name	^SDMHNS
Call is made to set up and send the mail message D ^XMD the user will be able to print out the email message to a printer for a hard copy through mailman.	
The report will be almost identical to the AD HOC report except it will have mailman designation in the heading.	

## ^SDMHNS1

This is the print routine for the High Risk Mental Health No Show Report run from the scheduling nightly background job. The report lists the patient that no showed for the mental health appointment, the date the of the appointment, the clinic and stop code. It also lists the, clinic provider and future scheduled appointments for the patient up to 30 days out. The report will be sent to members of the SD MH NO SHOW NOTIFICATION mail group.

#### Table 21: ^SDMHNS1 Routine

Routine Name	^SDMHNS1		
Enhancement Category	New Modify I No Change Delete		
SRS Traceability			
Related Options	N/A		
Related Routines	Routines "Called By"	Routines "Called"	
	^SDMHNS	C^%DTC	
		\$\$GET1^DIQ	
		\$\$HLPHONE^HLFNC	
		\$\$SDAPI^SDAMA301	
		HEAD^SDMHNS	
		\$\$SETSTR^SDUL1	
		^VADATE	
		KVAR^VADPT	
		OAD^VADPT	
		PID^VADPT6	
Data Dictionary	^DIC(40.7 CLINIC STOP		
References	^DPT( PATIENT		
	^SC( HOSPITAL LOCATION		
	^TMP(		
	^TMP("SDNS"		
	^TMP(\$J		
	^VA(200 NEW PERSON	N	
Related Protocols	N/A		

Routir	ne Name	^SDMH	NS1				
	d Integration	N/A		_	_		
Data F	Passing	□ Input	Output     Reference		⊠ Both	Global Global Reference	 Local
	Attribute Name efinition	Name: Definitior	ו:				
-	t Attribute Name efinition	Name: Definitior	ו:				
Currei	nt Logic	I					
N/A							
Modifi	ed Logic (Changes	are in bo	old)				
The co	de will loop through	the <b>^TMF</b>	P("SDNS", CI	inic, gl	obal		
<ul> <li>A header will be set into the ^TMP("SDNS",\$J,LINE #,0) global for each division (alphabetical)</li> <li>which will include the following information:</li> <li>**The second line will designate how the report will be sorted and printed. The background job will</li> </ul>							
only print the report by Clinic.							
	MENTAL HI BY CLIN		SHOW REPORT			NOV 10,2010@	09:34 PAGE 1
	PATIENT ************************************		PT ID		T D/T *******	CLINIC	STOP CODE *****
	ch patient listed, the	•	information	if availa	able will b	e set into the	
	"SDNS",\$J,LINE #,0						
	Patient phone numbers for home, office, cell Next of Kin information, contact, relationship to patient and address and phone numbers						
Emergency contact information, contact, relationship to patient, address and phone numbers							
Default provider for the clinic they no showed for							
Mental Health Treatment Coordinator MHTC and care team (in parenthesis)							
Future scheduled appointments, clinic, date and location of the clinic							
The results of efforts to contact the patient. (information from clinical reminder API)							
If there are no patients the heading will print with no records available.							
	MENTAL BY CLINIO		O SHOW REPOR	T	NOV 10	,2010@09:54	PAGE 1
	PATIENT		PT ID	EVENT	D/T	CLINIC	
	STOP CODE ********************	* * * * * * * * * *	* * * * * * * * * * * *	*****	* * * * * * * *	* * * * * * * * * * * * * *	* * * * * * * * * * * * *
			>>>>>>	NO RE	CORDS FO	UND <<<<<	

### ^SDAMQ

#### Table 22: ^SDAMQ Routine

Routine Name	^SDAM	2			
Enhancement Category	□ New      Modify				
SRS Traceability					
Related Options	Nightly jo	b for PM data e	xtract [SDC	QM PM NIGHTL	Y JOB]
Related Routines	Routine	s "Called By"	Routir	nes "Called"	
Data Dictionary References	N/A				
Related Protocols	N/A				
Related Integration Agreements	N/A				
Data Passing	□ Input	Output Reference	⊠ Both	Global Global Reference	□ Local
Input Attribute Name and Definition	Name: Definition	:			
Output Attribute Name and Definition	Name: Definition	:			
Current Logic					
START ; G STARTQ:'\$\$SWITCH N SDSTART,SDFIN K ^TMP("SDSTATS",\$J) S SDSTART=\$\$NOW^SDAMU D ADD^SDAMQ1 D EN^SDAMQ3(SDBEG,SDEND) ; appointments D EN^SDAMQ4(SDBEG,SDEND) ; add/edits D EN^SDAMQ5(SDBEG,SDEND) ; dispositions S SDFIN=\$\$NOW^SDAMU D UPD^SDAMQ1(SDBEG,SDEND,SDFIN,.05) D BULL^SDAMQ1 STARTQ K SDBEG,SDEND,SDAMETH,^TMP("SDSTATS",\$J) Q					
Modified Logic (Changes are in bold)					
START ; G STARTQ:'\$\$SWIT N SDSTART,SDFIN	СН				

Routine Name	^SDAMQ		
;N SDMHNOSH ; set	;N SDMHNOSH ; set for no show report		
K ^TMP("SDSTATS",	\$J)		
S SDSTART=\$\$NOV	/^SDAMU D ADD^SDAMQ1		
D EN^SDAMQ3(SDB	EG,SDEND); appointments		
D EN^SDAMQ4(SDB	EG,SDEND) ; add/edits		
D EN^SDAMQ5(SDB	EG,SDEND) ; dispositions		
S SDFIN=\$\$NOW^SI	DAMU D UPD^SDAMQ1(SDBEG,SDEND,SDFIN,.05)		
D BULL^SDAMQ1	D BULL^SDAMQ1		
STARTQ K SDBEG,SDEND,SDAMETH,^TMP("SDSTATS",\$J) Q			
. ,			
AUTO ; nightly job ent	ry point		
G:'\$\$SWITCH AUTO	Q		
; do yesterday's firs	t		
S X1=DT,X2=-1 D C^%DTC			
S (SDOPCDT,SDBEG)=X,SDEND=X+.24,SDAMETH=1 D START			
D EN^SDMHNS			
D EN^SDMHPRO			

# **EN^SDMHPRO**

This routine is the front end of the Proactive background job report and sets up the data to be printed.

#### Table 23: EN^SDMHPRO Routine

Routine Name	EN^SDMHPRO		
Enhancement Category	New Modify I No Change Delete		
Requirement Traceability Matrix	N/A		
Related Options	High Risk MH Proactive Nig REPORT] option	htly Report [SD MH PROACTIVE BGJ	
Related Routines	Routines "Called By"	Routines "Called"	
	^SDAMQ	NOW^%DTC \$\$LINE^SDMHAP \$\$LINE1^SDMHAP START^SDMHAP1 \$\$SETSTR^SDMHPRO1 SET1^SDMHPRO1 XMY^SDUTL2 \$\$FMTE^XLFDT ^XMD	
Data Dictionary (DD) References	^TMP( ^TMP("SDMHP" ^XMB(3.8		
Related Protocols	N/A		
Related Integration Control Registrations (ICRs)	N/A		
Data Passing	Output     Input     Reference	□ □ Global ⊠ Both Reference Local	
Input Attribute Name and Definition	Name: None Definition:		
Output Attribute Name and Definition	Name: None Definition:		
Current Logic			
None			

Routine Name	EN^SDMHPRO		
Modified Logic (Changes are in bold)			
The variable SDXFLG is set to 1; This flag is set to 1 when running from the background Job			
The date range is set to T	from the date the SD Nightly Background Job is run.		
The Division is set to ALL	the divisions in the facility.		
The sort criteria, is set All	Clinics.		
Call is made to START ^S	DMHPRO		
	are mental health clinics in the Reminder location file SDPRO",\$J with the valid choices		
Find the patients in the date	e range that had an appointment for a mental health clinic		
-Loop through the ^TMP("SDPRO",\$J global			
Within that loop, check the Hospital Location "S" X-ref to see if the patient has an appointment			
In the date range ^SC(cline	In the date range ^SC(clinic,"S",date		
- If there is a r reminder location or stop co	natch, set up the global <pre></pre>		
	e to set up the global ^TMP("SDMHP",\$J, LINE NUMBER,0) that n email message to all persons in the email group SD MH NO		
SDGRP is set to the m XMSUB the subject of t	d the data in a mail message. ail group number for SD MH NO SHOW NOTIFICATION he email is set to MN NO SHOW REPORT MESSAGE # lobal containing the data ^TMP("SDNS",\$J, LINE #,0)		
Call is made to set up and send the mail message D ^XMD the user will be able to print out the email message to a printer for a hard copy through mailman.			
The report will be identical the heading.	to the AD HOC report except it will have mailman designation in		

## **^SDMHPRO1**

This routine is called by routine SDMHPRO and is the routine that prints out the Proactive Background Job report.

#### Table 24: EN^SDMHPRO1 Routine

Routine Name	EN^SDMHPRO1	
Enhancement Category	New Modify Del	No Change ete
Requirement Traceability Matrix	N/A	
Related Options	High Risk MH Proactive Nig REPORT] option	htly Report [SD MH PROACTIVE BGJ
Related Routines	Routines "Called By"	Routines "Called"
	^SDMHPRO	C^%DTC \$\$SDAPI^SDAMA301 COUNT^SDMHPRO HEAD^SDMHPRO HEAD1^SDMHPRO TOTAL^SDMHPRO \$\$SETSTR^SDUL1 PID^VADPT6 \$\$FMTE^XLFDT
Data Dictionary (DD) References	^DG(40.8 ^DIC(40.7 ^DPT( ^DPT("B" ^SC( ^TMP( ^TMP("SDMHP" ^TMP("SDPRO1" ^TMP(\$J ^VA(200	
Related Protocols	N/A	
Related Integration Control Registrations (ICRs)	N/A	
Data Passing	D Output Input Reference	Image: GlobalImage: GlobalBothReferenceLocal

Routine Name	EN^SDMHPRO1		
Input Attribute Name and Definition	Name: None		
and Definition	Definition:		
Output Attribute Name and Definition	Name: None		
	Definition:		
Current Logic			
None			
Modified Logic (Changes	are in bold)		
The code will loop through	the ^TMP("SDPRO1" global		
<ul> <li>A totals page will print out of the unique patients at the beginning of the report.</li> <li>A header will print for each division (alphabetical) which will include the following information: the</li> <li>The second line will designate how the report will be sorted and printed. This example, sorts by clinic.</li> <li>The patient name, ID, date of appointment, clinic</li> </ul>			
PROACTIVE HIGH RISK RE by CLINIC for Appointments S			
*****	*****		
DIVISION: ALBANY			
1 Schedulingpatient, One	0000 10/3/2011 9:00 am D-PSYCHXXXXXXXXXXX		
PROACTIVE HIGH RISK RE by CLINIC for Appointments			
PATIENT PT ID	APPT D/T CLINIC		
DIVISION: ON THE HUDSON IN HISTORIC TROY			
1 Schedulingpatient, One 0000 9/29/2011 11:00 am LIZ'S MENTAL HEALTH CLI 10/3/2011 3:00 pm LIZ'S MENTAL HEALTH CLI			
2 Schedulingpatient, TWO	6666 10/4/2011 10:00 am LIZ'S MENTAL HEALTH CLI		

Routine Name	EN^SDMHPRO1		
PROACTIVE HIGH RISK REF	PORT	PAGE 3	
by CLINIC for Appointments 9	9/24/11-10/14/11	Run: 10/4/2011@12:39	
PATIENT PT IC	D APPT D/T C		
DIVISION: TROY1			
<ol> <li>Schedulingpatient, One</li> <li>Schedulingpatient, TWO</li> </ol>		1:00 am MENTAL HEALTH 10:00 am MENTAL HEALTH	
PROACTIVE HIGH RISK REF	-	PAGE 4	
by CLINIC for Appointments 9	9/24/11-10/14/11	Run: 10/4/2011@12:39	
Totals Page	*****	*****	
Division/Clinic	Appointment Totals		
Division/CLinic	Unique		
	Patients		
ALBANY	1		
ON THE HUDSON IN HISTO		2	
TROY1	2		
If there are no patients the	heading will print with	n no records available.	
PROACTIVE HIGH RISK REF	PORT	PAGE 3	
by CLINIC for Appointments 9		Run: 10/4/2011@12:39	
PATIENT PT ID A	PPT D/T CLINIC	2	
******	********	*****	
>>>>> NO RECORDS FOUND <<<<<			

## **EN^SDMHAP**

This routine is the front end of the Proactive Ad Hoc report and sets up the data to be printed.

#### Table 25: EN^SDMHAP Routine

Routine Name	EN^SDMHAP		
Enhancement Category	New Modify Delete		
Requirement Traceability 3333Matrix	N/A		
Related Options	High Risk MH No-Show Adhoc Report [SD MH NO SHOW AD HOC REPORT] option		
Related Routines	Routines "Called By"	Routines "Called"	
		C^%DTC NOW^%DTC ^%ZIS ^%ZTLOAD \$\$GETINF^DGPFAPIH \$\$GETFLAG^DGPFAPIU CLOSE^DGUTQ WAIT^DICD D^DIR SWITCH^SDAMU ASK2^SDDIV ^SDMHAP1 HEAD^SDMHPRO ^SDMHPRO1 \$\$SETSTR^SDMHPRO1 SET1^SDMHPRO1 PID^VADPT6 \$\$FDATE^VALM1 FIRST^VAUTOMA \$\$FMTE^XLFDT	
Data Dictionary (DD) References	^%ZOSF("TEST" ^DG(40.8 ^DIC(40.7 ^DPT( ^PXRMD(810.9 ^SC( ^SC("AST"		

Routine Name	EN^SDMHAP		
	^TMP("SDPRO" ^TMP("SDPRO1"		
Related Protocols	N/A		
Related Integration	N/A		
Control Registrations (ICRs)			
Data Passing	ImputOutputImputGlobalImputInputReferenceBothReferenceLocal		
Input Attribute Name and Definition	Name: None Definition:		
Output Attribute Name	Name: None		
and Definition	Definition:		
Current Logic			
None			
Modified Logic (Changes	are in bold)		
User is asked to choose the	e date range.		
User is asked to choose the Divisions in the facility (one, many, `all)			
Report will sort by clinic.			
User will be asked to list report by All clinics (mental health and not mental health) or Mental Health clinics only			
If All clinics the user can choose all the clinics in the facility			
If Mental Health clinics only, the user will choose only clinics that have stop codes located in the			
Reminder Location List VA-MH NO SHOW APPT CLINICS LL			
Set ^TMP( "SDPRO",\$J with the valid choices			
Find the patients in the date range with High Risk for Mental Health patient record flag that have an appointment.			
-Loop through the ^TMP("SDPRO",\$J global			
Within that loop, check the Hospital Location "S" X-ref to see if the patient has an appointment In the date range ^SC(clinic,"S",date			

Routine Name	EN^SDMHAP
- If there is a match, set up the global ^TMP("SDPRO1", SORT by clinic	
Call ^SDMHAP1 routine to print the report.	

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## EN^SDMHAP1

This routine is called by routine SDMHAP and is the routine that prints out the Proactive Ad Hoc report.

#### Table 26: EN^SDMHAP1 Routine

Routine Name	EN^SDMHAP1			
Enhancement Category	New Modify I No Change Delete			
Requirement Traceability Matrix	N/A			
Related Options	High Risk MH Proactive Ad HOC REPORT] option	High Risk MH Proactive Adhoc Report [SD MH PROACTIVE AD HOC REPORT] option		
Related Routines	Routines "Called By"	Routines "Called"		
Data Dictionary (DD) References	^SDMHAP       C^%DTC         ^DIR       \$\$SDAPI^SDAMA301         HEAD^SDMHAP       HEAD1^SDMHAP         HEAD1^SDMHAP       COUNT^SDMHPRO         TOTAL1^SDMHPRO       TOTAL1^SDMHPRO         PID^VADPT6       \$\$FMTE^XLFDT         ^DIC(40.7       ^DPT(			
	^TMP( ^TMP(\$J ^VA(200			
Related Protocols	N/A			
Related Integration Control Registrations (ICRs)	N/A			
Data Passing	Output     Input     Reference	□ □ Global ⊠ Both Reference Local		
Input Attribute Name and Definition	Name: None Definition:			
Output Attribute Name and Definition	Name: None Definition:			
Current Logic				

Routine Name	EN^SDMHAP1		
None			
Modified Logic (Changes	s are in bold)		
The code will loop through	the ^TMP("SDPRO	1" global	
following information: the - The second li example, sorts by clinic. - The patient r			
HIGH RISK MENTAL HEAL CLINIC for Appointments 4/4		C REPORT BY Run: 4/4/2013@15:58	PAGE 1
# PATIENT PT ID	APPT D/T CLINIC	****	
4/8/2013 4/9/2013 4/10/201 4/11/201	<ul> <li>@08:00 D-PSYCHXX</li> <li>@08:00 D-PSYCHXX</li> <li>@08:00 D-PSYCHXX</li> <li>3@08:00 D-PSYCHXX</li> <li>3@08:00 D-PSYCHXX</li> </ul>	8:00 D-PSYCHXXXXX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXX	XX XX XX XX XX XX
HIGH RISK MENTAL HEAL CLINIC for Appointments 4/4		C REPORT BY Run: 4/4/2013@15:58	PAGE 2
# PATIENT PT ID	APPT D/T CLINIC	****	
4/7/2013 4/8/2013 4/9/2013 4/10/201 4/11/201 4/12/201	X T0000 4/4/2013@0 @08:00 LIZ'S MENTA @08:00 LIZ'S MENTA @08:00 LIZ'S MENTA @08:00 LIZ'S MENTA 3@08:00 LIZ'S MENTA 3@08:00 LIZ'S MENTA	8:00 LIZ'S MENTAL HEA AL HEALTH CLINICXXX AL HEALTH CLINICXXX AL HEALTH CLINICXXX AL HEALTH CLINICXXX AL HEALTH CLINICXXX AL HEALTH CLINICXXX AL HEALTH CLINICXXX	ALTH CLINICXXX
HIGH RISK MENTAL HEAL	H PROACTIVE ADHO	C REPORT BY	PAGE 3

Routine Name	EN^SDMHAP1		
CLINIC for Appointments 4/4/	/13-4/14/13 Run: 4/4/2013@15:58		
# PATIENT PT ID APPT D/T CLINIC			
1 TESTPATIENT,ONEXXXX T1111 4/4/2013@09:00 MENTAL HEALTH 4/5/2013@09:00 MENTAL HEALTH 4/8/2013@09:00 MENTAL HEALTH 4/9/2013@09:00 MENTAL HEALTH 4/10/2013@09:00 MENTAL HEALTH 4/11/2013@09:00 MENTAL HEALTH 4/12/2013@09:00 MENTAL HEALTH			
	HIGH RISK MENTAL HEALTH PROACTIVE ADHOC REPORT BYPAGE 4CLINIC for Appointments 4/4/13-4/14/13Run: 4/4/2013@15:58		
Totals Page	******		
Division/Clinic	c Appointment Totals		
Division/CLinic	Unique Patients		
ALBANY ON THE HUDSON IN HISTO TROY1	1 DRIC TROY 1 1		
If there are no patients the heading will print with no records available.			
HIGH RISK MENTAL HEALTI CLINIC for Appointments 4/4/	H PROACTIVE ADHOC REPORT BY       PAGE 4         /13-4/14/13       Run: 4/4/2013@15:58		
	APPT D/T CLINIC		
>>>>> NO RECORDS FOUND <<<<<			

# 9 External/Internal Relations

This section explains any special relationships and agreements between the routines and/or files/fields in this software and dependencies. List any routines essential to the software functions, for example:

Provide information on whether an outpatient facility could function without programs relating to inpatient activity and avoid system failure.

Specify the version of VA FileMan, Kernel, and other software required to run this software.

Include a list of Integration Agreements (IA) with instructions for obtaining detailed information for each, or instruct the user how/where to find this information online.

## 9.1 External Relations

The following minimum package versions are required: VA FileMan V. 21.0, Kernel V. 8.0, Kernel Toolkit V. 7.3, VA MailMan V. 7.1, CPRS V. 28, PXRM V. 2.0.18, PCE V. 1.0, IB V. 2.0, IFCAP V. 3.0, DRG Grouper V. 13.0, HL7 V. 1.6, and Generic Code Sheet V. 1.5. Sites should verify that all patches to these packages have been installed.

**NOTE:** For Scheduling Reports to run correctly, patch DG\*5.3\*836 and DG\*5.3\*849 need to be installed and reminder location list 'VA-MH NO SHOW APPT CLINICS LL' in File (#810.9) must be current.

If your site is running any of the following packages, you MUST be running the listed version or higher.

Package	Minimum Version
AMIE	None
CPRS (OR V. 3.0*280)	V. 1.0
Dental	V. 1.2
Dietetics	V. 4.33
Inpatient Meds	None
IVM	V. 2.0
Laboratory	V. 5.2
Mental Health	V. 5.0
Nursing	V. 2.2
Occurrence Screening	V. 2.0
Outpatient Pharmacy	V. 7.0
Patient Funds	V. 3.0

#### Table 27: Minimum Version Baseline

Package	Minimum Version
Radiology/Nuclear Medicine	V. 4.5
Record Tracking	V. 2.0
Social Work	V. 3.0
Utilization Review	V. 1.06

NOTE: If you are not running one of the above packages, you do NOT need to install it.

You must have all current Kernel V. 8.0, Kernel Toolkit V. 7.3, VA FileMan V. 21.0, RPC Broker V. 1.0, and PIMS V. 5.3 patches installed prior to the installation of PCMM (SD\*5.3\*41, DG\*5.3\*84).

You must have KIDS patch 44 (XU\*8\*44) installed prior to loading the VIC software.

CPRS will be using the PCMM files and GUI interface

The following is a list of all elements that are checked for installation of Ambulatory Care Reporting Project.

ELEMENT CHECKED	CHECK PERFORMED	REQUIRED FOR
PCE V. 1.0	Installed	Yes
HL7 V. 1.6	Installed	Yes
XU*8.0*27	Installed	Yes
HL*1.6*8	Installed	Yes
IB*2.0*60	Installed	Yes
Q-ACS.MED.VA.GOV in DOMAIN file (#4.2)	Entry exists	Yesi
SD*5.3*41	Installed	No
RA*4.5*4	Installed	Noii
LR*5.2*127	Installed	No1
SOW*3*42	Installed	No
OPC GENERATION MAIL GROUP field (#216) of the MAS PARAMETER file (#43)	Contains valid Mail Group	No
<ol> <li>This domain was distributed by patch XM*DBA*99.</li> <li>Not installing this patch will result in the loss of workload credit.</li> </ol>		

Table 28: Ambulatory Care Reporting Project Elements

1 Not installing this patch will result in the loss of workload credit.

# **10 DBIA Agreements**

The following steps are used to obtain the database integration agreements for the PIMS package.

## **10.1 DBIA AGREEMENTS - CUSTODIAL PACKAGE**

- 1. FORUM
- 2. DBA Menu
- 3. Integration Agreements Menu
- 4. Custodial Package Menu
- 5. Active by Custodial Package Option
- 6. Select Package Name: Registration or Scheduling

## **10.2DBIA AGREEMENTS - SUBSCRIBER PACKAGE**

- 1. FORUM
- 2. DBA Menu
- 3. Integration Agreements Menu
- 4. Subscriber Package Menu
- 5. Print Active by Subscriber Package Option
- 6. Start with subscriber package:
  - DG to DGZ, VA to VAZ (ADT)
  - SD to SDZ, SC to SCZ (scheduling)

## **10.3 Internal Relations**

Any PIMS option in File 19 which is a menu option should be able to run independently provided the user has the appropriate keys and FileMan access.

In order to use the PCMM client software, the user must be assigned the SC PCMM GUI WORKSTATION option as either a primary or secondary menu option - unless the user has been assigned the XUPROGMODE security key.

This key, usually given to IRM staff, allows use of the client software without the SC PCMM GUI WORKSTATION option being assigned.

## 10.4 Package-Wide Variables

There are no package-wide variables associated with the PIMS package.

## **10.5 VADPT Variables**

See the VADPT Variables section of this file.

#### 10.5.1 Scheduling Variables

SDUTL3 contains utilities used to display and retrieve data from the CURRENT PC TEAM and CURRENT PC PRACTITIONER fields in the PATIENT file.

Documentation can also be found in the routine.

\$\$OUTPTPR^SDUTL3(PARM 1) - displays data from CURRENT PC
PRACTITIONER field
Input PARM 1 The internal entry of the PATIENT file.
Output CURRENT PC PRACTIONER in Internal^External format.
If look-up is unsuccessful, 0 will be returned.

```
$$OUTPTTM^SDUTL3(PARM 1) - displays data from CURRENT PC TEAM field.
Input PARM 1 The internal entry of the PATIENT file.
Output CURRENT PC TEAM in Internal^External format. If
look-up is unsuccessful, 0 will be returned.
```

\$\$OUTPTAP^SDUTL3(PARM 1, PARM 2)
Input PARM 1 The internal entry of the PATIENT file.
Input PARM 2 The relevant data.
Output Pointer to File 200^external value of the name.
\$\$GETALL^SCAPMCA(PARM 1, PARM 2, PARM 3)

This tag returns all information on a patient's assignment. Please review the documentation in the SCAPMCA routine.

# 10.5.2Patient Record Flag Variables10.5.2.1Integration Agreement Applicable

Example: How to access Integration Aagreements

```
4903
              NAME: PATIENT RECORD FLAG DATA RETRIEVAL
 CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: SCHEDULING
                        Scheduling requires Patient Record Flag information
                        as part of a new missed appointment report supporting
                        the High Risk Mental Health Initiative. This report
                       needs to be able to determine which patients missing
                        a recent appointment have a specified Patient Record
                        Flag assigned.
                     CLINICAL REMINDERS
                        Retrieval of High Risk Mental Health Patient Flag
                        information.
                    HEALTH SUMMARY
                        ADDED 7/19/2011
              USAGE: Controlled Subscri ENTERED: JAN 6,2011
            STATUS: Active
                                         EXPIRES:
          DURATION: Till Otherwise Agr VERSION:
       DESCRIPTION:
                                            TYPE: Routine
  These API's provide a means to retrieve detailed Patient Record Flag
   information by patient and patient record flag, and, to retrieve a list of
  patients with a specific assigned patient record flag during a specified
  date range.
    ROUTINE: DGPFAPIH
   COMPONENT: GETINF
               This function will return detailed information from the
               Patient Record Flag files for the specified patient and PRF
               flag. A date range for active PR Flags is optional. Data
               array output example:
               DGARR("ASSIGNDT") - Date of initial assignment.
                      i.e. 3110131.093248^Jan 31, 2011@09:32:48)
```

DGARR("CATEGORY") - National or Local flag category.

i.e. II (LOCAL)^II (LOCAL) DGARR("FLAG") - Variable
pointer to Local/National flag files and flag name.

i.e. 1;DGPF(26.11, ^HIGH RISK FOR SUICIDE

DGARR("FLAGTYPE") - Type of flag usage.

i.e. 1^BEHAVIORAL DGARR("HIST",n,"ACTION") - Type of action for history entry

i.e. 1^NEW ASSIGNMENT DGARR("HIST",n,"APPRVBY") Person approving the flag assignment

i.e. 112345^PERSON,STEVE DGARR("HIST",1,"COMMENT",1,0)
- Comment for record assignment action

i.e "New record flag assignment."
DGARR("HIST",n,"DATETIME") - Date/Time of Action

i.e. 3110131.093248^JAN 31, 2011@09:32:48 DGARR("HIST",n,"TIULINK") - Pointer to the TIU Document file (#8925)

i.e. "^" DGARR("NARR",n,0) - Describes the purpose and instructions for the application of the flag.

i.e. "TEST ENTRY" DGARR("ORIGSITE") - Site that initially assigned this flag (Relevant to National flags only)

i.e. 500^ALBANY.VA.GOV DGARR("OWNER") - Site which currently "Owns" this flag (Relevant to National flags only)

i.e. 500^ALBANY.VA.GOV DGARR("REVIEWDT") - Date for

next review of record flag assignment

i.e. 3110501^MAY 01, 2011 DGARR("TIUTITLE") - Pointer to the TIU Document Definition file (#8925.1)

i.e. 1309^PATIENT RECORD FLAG CATEGORY II - RESEARCH STUDY

VARIABLES: Input DGDFN

This is the DFN (IEN) for the patient in the PATIENT File (#2). This is a required variable. VARIABLES: Input DGPRF Variable pointer to either the PRF LOCAL FLAG File (#26.11) or to the PRF NATIONAL FLAG file (#26.15). This is a required variable.

For National Flags: IEN;DGPF(26.15,

PIMS

For Local Flags: IEN;DGPF(26.11, DGSTART VARIABLES: Input Start date for when to begin search for active PRF flags. This date must be in FM format, i.e. 3110106. This variable is optional, if null, searches will begin with the earliest assigned entry in the PRF ASSIGNMENT HISTORY file (#26.14) VARIABLES: Input DGEND End date for the search for active PRF entries. This date must be in FM format, i.e. 3110107. This variable is optional, if null or not passed in, all entries to the end of the PRF ASSIGNMENT HISTORY file (#26.14) will be searched. DGARR VARIABLES: Both This variable contains the array name for the return data. This is optional. If an array name is not specified, the return data is returned in local array "DGPFAPI1". VARIABLES: Output DGRSLT Return value from the API call. Returns "1" if the API was successful in returning PRF data, returns "0" if the API was unsuccessful in returning PRF data. COMPONENT: GETLST This function call returns a list of patients with a specified Patient Record Flag assigned for a specified date range. DGARR(DFN,n) - Patient Name^VPID^Date of initial assignment'National or Local flag category'flag name Example: DGARR(9999955648,0) = "EASPATIENT, ONE A^5000000295V790537^3100201.103713^II (LOCAL)^HIGH RISK FOR SUICIDE" VARIABLES: Input DGPRF Variable pointer to either the PRF LOCAL FLAG File (#26.11) or the PRF NATIONAL FLAG File (#26.15).

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		This variable is required.
		National: IEN;DGPF(26.15,
		Local: IEN;DGPF(26.11,
VARIABLES:	Input	DGSTART
		This is the start date to begin searching for
		patients with the assigned Patient Record Flag.
		This date must be in FM format, i.e. 3100110. This
		variable is optional.
VARIABLES:	Input	DGEND
		This is end date for the search range for patients
		with the assigned Patient Record Flag. This date
		must be in FM format, i.e. 3100112. This variable
		is optional.
VARIABLES:	Both	DGARR
		This variable contains the array name where the
		returned patient information will be placed. This
		is optional, if an array name is not specified,
		the data will be returned in a TMP Global,
		^TMP("PRFLST")
VARIABLES:	Output	DGRSLT
		This variable returns a count of the patients
		placed in the return list.
KEY	WORDS: PAT	IENT RECORD FLAGS
	**	* * * * * * * * * * * * * * * *

**Example:** Inquire to an Integration Control Registration

Select INTEGRATION CONTROL REGISTRATIONS Option: ing Inquire to an Integration Control Registration Select INTEGRATION REFERENCES: dgpfapiu 5491 REGISTRATION Controlled Subscription PATIENT RECORD FLAG VARIABLE POINTER DGPFAPIU DEVICE: ;;999 SSH VIRTUAL TERMINAL INTEGRATION REFERENCE INQUIRY #5491 MAY 3,2012 10:27 PAGE 1 \_\_\_\_\_ NAME: PATIENT RECORD FLAG VARIABLE POINTER 5491 CUSTODIAL PACKAGE: REGISTRATION SUBSCRIBING PACKAGE: SCHEDULING CLINICAL REMINDERS HEALTH SUMMARY ADDED 7/19/2011 USAGE: Controlled Subscri ENTERED: JAN 31,2011 STATUS: Active EXPIRES: DURATION: Till Otherwise Agr VERSION: DESCRIPTION: TYPE: Routine Builds and returns a variable pointer to the Patient Record Flag National or Local files based on the textual flag name. ROUTINE: DGPFAPIU COMPONENT: GETFLAG Get the variable pointer value for the flag text passed in. VARIABLES: Input DGPRF Name of the Patient Record Flag in the PRF NATIONAL FLAG file, #26.15, or in the PRF LOCAL FLAG file, #26.11. The value passed in must match the NAME field, #.01, and is a free text value. VARIABLES: Input DGCAT Optinal File category value. This value is either "N" to lookup the pointer value in the National file, or "L" to lookup the pointer value in the PRF Local file. If null, both the National and Local files will be checked for the pointer value. VARIABLES: Output DGRSLT

GETINF^DGPFAPIH (Increment 1) DGPFAPIH is both a Routine and API / Integration agreement (# 4903)	DGPFAPIH - This routine implements the two Application Programming Interface call points for retrieving Patient Record Flag information. One call point is for a specific patient and record and the second call point is for a list of patients with a specific, active, Patient Record Flag. This API will obtain the Patient Record Flag assignment information and status for the specified patient, patient record flag and date range. The return data will be provided in an array using the target_root specified by the user or in the default array variable DGPFAPI1. The DATE/TIME field (#.02) of the PRF ASSIGNMENT HISTORY File (#26.14) entry will determine whether the entry falls within the specified date range. If no date range is specified, all entries will be returned
GETLST^DGPFAPIH (Increment 1)	This API will retrieve a list of patients active at some point within a specified date range for a specified Patient Record Flag. The date range is required for this API, though the same date can be entered to specify a single date. The return data will be provided in an array using the target_root specified by the user or in the default array variable DGPFAPI2. The DATE/TIME field (#.02) of the PRF ASSIGNMENT HISTORY File (#26.14) entry will determine whether the entry falls within the specified date range.

#### 10.5.2.2 DGPFAPIH

#### 10.5.2.3 DGPFAPIU

DGPFAPIU (Increment 1)	This routine provides support utilities and functions for the new Application Programming Interface calls.
	This procedure will check if the Patient Record Flag was active at any point during the specified date range. The procedure accepts a date range parameter which specifies whether "A"ll dates or only a "S"pecified date range is to be checked.
	The PRF Assignment History File (#26.14) was not designed for this type of date interaction so the algorithm in this procedure has to make

	a number of assumptions when interpreting the dates and PRF actions. While there can only be one "New Assignment" entry, it is possible to have multiple "Continue", "Inactivate" and "Reactivate" action entries. In addition, the "Entered In Error" action can pose additional issues with determining a status during a specific date range. See Appendix B for examples of date range and PRF History status entries.
GETFLAG^DGPFAPIU (Increment 1)	This function gets the variable pointer value for the Patient Record Flag passed in. The PRF is passed in as a text value. If the optional flag category is passed in, only that category will be checked for the PRF. If no category is passed in, then first the National category will be checked, In the integration Agreement # 5491

## 10.6 VAUTOMA

VAUTOMA is a routine which will do a one/many/all prompt - returning the chosen values in a subscripted variable specified by the calling programmer.

#### **INPUT VARIABLES:**

VAUTSTR	string which describes what is to be entered.
VAUTNI	defines if array is sorted alphabetically or numerically.
VAUTVB	name of the subscripted variable to be returned.
VAUTNALL option.	define this variable if you do not want the user to be given the ALL

Other variables as required by a call to ^DIC (see VA FileMan Programmers Manual).

#### **OUTPUT VARIABLES:**

As defined in VAUTVB

#### 10.7 VAFMON

VAFMON is a routine which will return income or dependent information on a patient.

#### \$\$INCOME^VAFMON(PARM 1,PARM 2)

PARM 1The internal entry of the PATIENT file.PARM 2The date the income is calculated for.

#### \$\$DEP^VAFMON(PARM 1,PARM 2)

- PARM 1 The internal entry of the PATIENT file.
- PARM 2 The date the income is calculated for.

## 10.8 AIT

See the Ambulatory Care Reporting Project Interface Toolkit. The AIT is a set of programmer tools that provide access to outpatient encounter data.

# 11 How To Generate On-Line Documentation

This section describes some of the various methods by which users may secure PIMS technical documentation.

On-line technical documentation pertaining to the PIMS software, in addition to that which is located in the help prompts and on the help screens which are found throughout the PIMS package, may be generated through utilization of several KERNEL options.

These include but are not limited to: XINDEX, 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 VISTA Kernel Reference Manual.

## **11.1 XINDEX**

This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to VISTA Programming Standards. The XINDEX 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 XINDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from VISTA 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 XINDEX for the PIMS package, specify the following namespaces at the "routine(s) ?>" prompt: DG\*, DPT\*, SD\*, VA\*, SC\*.

PIMS initialization routines which reside in the UCI in which XINDEX is being run, compiled template routines, and local routines found within the PIMS namespaces should be omitted at the "routine(s) ?>" prompt.

To omit routines from selection, preface the namespace with a minus sign (-).

## **11.2 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 PIMS options, the user must specify the name or namespace of the option(s) desired. Below is a list of namespaces associated with the PIMS package.

• DG - Registration, ADT, Means Test, PTF/RUG

- DPT Patient File Look-up, Patient Sensitivity
- SD and SC Scheduling
- VA Generic utility processing

#### 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 PIMS options, the following option namespaces should be specified: DG to DGZ, SD to SDZ.

## **11.3 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.

## 11.4 Security

#### 11.4.1 General Security

Routines that generate statistics for AMIS or NPCDB workload should NOT be locally modified.

#### 11.4.2 Security Keys

The following are the steps to obtain information about the security keys contained in the PIMS package.

- 1. VA FileMan Menu
- 2. Print File Entries Option
- 3. Output from what File: SECURITY KEY
- 4. Sort by: Name
- 5. Start with name:
  - DG to DGZ, VA to VAZ (ADT)
  - SD to SDZ, SC to SCZ (scheduling)
- 6. Within name, sort by: <RET>

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- 7. First print field: Name
- 8. Then print field: Description

#### 11.4.3 Legal Requirements

The PIMS software package makes use of Current Procedural Terminology (CPT) codes that is an American Medical Association (AMA) copyrighted product. Its use is governed by the terms of the agreement between the Department of Veterans Affairs and the AMA. The CPT copyright notice is displayed for various PIMS users and should not be turned off.

## 11.5 FileMan Access Codes

Below is a list of recommended FileMan Access Codes associated with each file contained in the PIMS package. This list may be used to assist in assigning users appropriate FileMan Access Codes.

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
2	PATIENT	@	d	D	@	D
5	STATE	@	d	@	@	@
8	ELIGIBILITY CODE	@	d	@	@	@
8.1	MAS ELIGIBILITY CODE	@	d	@	@	@
8.2	IDENTIFICATION FORMAT	@	d	@	@	@
10	RACE	@	d	@	@	@
11	MARITAL STATUS	@	d	@	@	@
13	RELIGION	@	d	@	@	@
21	PERIOD OF SERVICE	@	d	@	@	@
22	POW PERIOD	@	d	@	@	@
23	BRANCH OF SERVICE	@	d	@	@	@
25	TYPE OF DISCHARGE	@	d	@	@	@
26.11	PRF LOCAL FLAG	@	@	@	@	@

#### Table 29: Fileman Access Codes

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
26.12	PRF LOCAL FLAG HISTORY	@	@	@	@	@
26.13	PRF ASSIGNMENT	@	d	@	@	@
26.14	PRF ASSIGNMENT HISTORY	@	@	@	@	@
26.15	PRF NATIONAL FLAG	@	@	@	@	@
26.16	PRF TYPE	@	@	@	@	@
26.17	PRF HL7 TRANSMISSION LOG	@	@	@	@	@
26.18	PRF PARAMETERS	@	@	@	@	@
26.19	PRF HL7 QUERY LOG	@	@	@	@	@
26.21	PRF HL7 EVENT	@	@	@	@	@
27.11	PATIENT ENROLLMENT	@	d	@	@	@
27.12	ENROLLMENT QUERY LOG	@		@	@	@
27.14	ENROLLMENT/ELIG IBILITY UPLOAD AUDIT					
27.15	ENROLLMENT STATUS	@	d	@	@	@
27.16	ENROLLMENT GROUP THRESHOLD	@	@	@	@	@
27.17	CATASTROPHIC DISABILITY REASONS	@	@	@	@	@
28.11	NOSE AND THROAT RADIUM HISTORY	@	d	@	@	@
29.11	MST HISTORY					
30	DISPOSITION LATE REASON	@	d	@	@	@
35	OTHER FEDERAL AGENCY	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
35.1	SHARING AGREEMENT CATEGORY	@	@	@	@	@
35.2	SHARING AGREEMENT SUB- CATEGORY	@	@	@	@	@
37	DISPOSITION	@	d	@	@	@
38.1	DG SECURITY LOG	@	d	D	@	D
38.5	INCONSISTENT DATA	@	d	@	@	@
38.6	INCONSISTENT DATA ELEMENTS	@	d	@	@	@
39.1	EMBOSSED CARD TYPE	@	d	@	@	@
39.2	EMBOSSING DATA	@	d	@	@	@
39.3	EMBOSSER EQUIPMENT FILE	@	d	@	@	@
39.4	ADT/HL7 TRANSMISSION	@	@	@	@	@
39.6	VIC REQUEST	@	@	@	@	@
39.7	VIC HL7 TRANSMISSION LOG	@	@	@	@	@
40.7	CLINIC STOP	@	d	@	@	@
40.8	MEDICAL CENTER DIVISION	@	d	@	@	@
40.9	LOCATION TYPE	@	d	@	@	@
41.1	SCHEDULED ADMISSION	@	d	D	D	D
41.41	PRE- REGISTRATION AUDIT	@	d	D	D	D
41.42	PRE- REGISTRATION CALL LIST	@	d	D	D	D

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
41.43	PRE- REGISTRATION CALL LOG	@	d	D	D	D
41.9	CENSUS	@	d	@	@	@
42	WARD LOCATION	@	d	D	@	D
42.4	SPECIALTY	@	d	@	@	@
42.5	WAIT LIST	@	d	D	D	D
42.55	PRIORITY GROUPING	@	d	@	@	@
42.6	AMIS 334-341	@	d	D	D	D
42.7	AMIS 345&346	@	d	D	D	D
43	MAS PARAMETERS	@	d	D	@	@
43.1	MAS EVENT RATES	@	d	D	D	D
43.11	MAS AWARD	@	d	D	D	D
43.4	VA ADMITTING REGULATION	@	d	@	@	@
43.5	G&L CORRECTIONS	@	d	D	D	D
43.61	G&L TYPE OF CHANGE	@	d	@	@	@
43.7	ADT TEMPLATE	@	d	@	@	@
44	HOSPITAL LOCATION	@	d	D	@	D
45	PTF	@	d	D	@	@
45.1	SOURCE OF ADMISSION	@	d	@	@	@
45.2	PTF TRANSFERRING FACILITY	@	d	D	@	D
45.3	SURGICAL SPECIALTY	@	d	@	@	@
45.4	PTF DIALYSIS TYPE	@	d	@	@	@
45.5	PTF MESSAGE	@	d	@	@	@
45.6	PLACE OF DISPOSITION	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
45.61	PTF ABUSED SUBSTANCE	@	d	@	@	@
45.64	PTF AUSTIN ERROR CODES	@	d	@	@	@
45.68	FACILITY SUFFIX	@	d	@	@	@
45.7	FACILITY TREATING SPECIALTY	@	d	D	@	D
45.81	STATION TYPE	@	d	@	@	@
45.82	CATEGORY OF BENEFICIARY	@	d	@	@	@
45.83	PTF RELEASE	@	d	@	@	@
45.84	PTF CLOSE OUT	@	d	@	@	@
45.85	CENSUS WORKFILE	@	d	D	@	@
45.86	PTF CENSUS DATE	@	d	@	@	@
45.87	PTF TRANSACTION REQUEST LOG	@	d	@	@	@
45.88	PTF EXPANDED CODE CATEGORY	@	d	@	@	@
45.89	PTF EXPANDED CODE	@	d	@	@	@
45.9	PAF	@	d	D	D	D
45.91	RUG-II	@	d	@	@	@
46	INPATIENT CPT	@	d	D	#	@
46.1	INPATIENT POV	@	d	D	#	@
47	MAS FORMS AND SCREENS	@	d	D	#	@
48	MAS RELEASE NOTES	@	d	D	@	@
48.5	MAS MODULE	@	d	@	@	@
389.9	STATION NUMBER (TIME SENSITIVE)	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
390	ENROLLMENT RATED DISABILITY UPLOAD AUDIT	@	@	@	@	@
391	TYPE OF PATIENT	@	d	@	@	@
391.1	AMIS SEGMENT	@	d	@	@	@
391.31	HOME TELEHEALTH PATIENT	@	@	@	@	@
403.35	SCHEDULING USER PREFERENCE	@	d	@	@	@
403.43	SCHEDULING EVENT	@	d	@	@	@
403.44	SCHEDULING REASON	@	d	@	@	@
403.46	STANDARD POSITION	@	d	@	@	@
403.47	TEAM PURPOSE	@	d	@	@	@
404.41	OUTPATIENT PROFILE	@	d	@	@	@
404.42	PATIENT TEAM ASSIGNMENT	@	d	@	@	@
404.43	PATIENT TEAM POSITION ASSIGNMENT	@	d	@	@	@
404.44	PCMM PARAMETER	@	@	@	@	@
404.45	PCMM SERVER PATCH	@	@	@	@	@
404.46	PCMM CLIENT PATCH	@	@	@	@	@
404.471	PCMM HL7 TRANSMISSION LOG	@	@	@	@	@
404.472	PCMM HL7 ERROR LOG	@	@	@	@	@
404.48	PCMM HL7 EVENT	@	@	@	@	@
404.49	PCMM HL7 ID	@	@	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
404.51	ТЕАМ	@	d	@	@	@
404.52	POSITION ASSIGNMENT HISTORY	@	d	@	@	@
404.53	PRECEPTOR ASSIGNMENT HISTORY	@	d	@	@	@
404.56	TEAM AUTOLINK	@	d	@	@	@
404.57	TEAM POSITION	@	d	@	@	@
404.58	TEAM HISTORY	@	d	@	@	@
404.59	TEAM POSITION HISTORY	@	d	@	@	@
404.61	MH PCMM STOP CODES	@	d	@	@	@
404.91	SCHEDULING PARAMETER	@	d	@	@	@
404.92	SCHEDULING REPORT DEFINITION	@	d	@	@	@
404.93	SCHEDULING REPORT FIELDS DEFINITION	@	d	@	@	@
404.94	SCHEDULING REPORT GROUP	@	d	@	@	@
404.95	SCHEDULING REPORT QUERY TEMPLATE	@	d	@	@	@
404.98	SCHEDULING CONVERSATION SPECIFICATON TEMPLATE	@	d	@	@	@
405	PATIENT MOVEMENT	@	d	@	@	@
405.1	FACILITY MOVEMENT TYPE	@	d	D	@	D
405.2	MAS MOVEMENT TYPE	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
405.3	MAS MOVEMENT TRANSACTION TYPE	@	d	@	@	@
405.4	ROOM-BED	@	d	D	@	D
405.5	MAS OUT-OF- SERVICE	@	d	@	@	@
405.6	ROOM-BED DESCRIPTION	@	d	D	@	D
406.41	LODGING REASON	@	d	D	@	D
407.5	LETTER	@	d	D	D	D
407.6	LETTER TYPE	@	d	@	@	@
407.7	TRANSMISSION ROUTERS	@	d	@	@	@
408	DISCRETIONARY WORKLOAD	@	d	@	@	@
408.11	RELATIONSHIP	@	d	@	@	@
408.12	PATIENT RELATION	@	d	@	@	@
408.13	INCOME PERSON	@	d	@	@	@
408.21	INDIVIDUAL ANNUAL INCOME	@	d	@	@	@
408.22	INCOME RELATION	@	d	@	@	@
408.31	ANNUAL MEANS TEST	@	d	@	@	@
408.32	MEANS TEST STATUS	@	d	@	@	@
408.33	TYPE OF TEST	@	d	@	@	@
408.34	SOURCE OF INCOME TEST	@	d	@	@	@
408.41	MEANS TEST CHANGES	@	d	@	@	@
408.42	MEANS TEST CHANGES TYPE	@	d	@	@	@
409.1	APPOINTMENT TYPE	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
409.2	CANCELLATION REASONS	@	d	@	@	@
409.41	OUTPATIENT CLASSIFICATION TYPE	@	d	@	@	@
409.42	OUTPATIENT CLASSIFICATION	@	d	D	D	D
409.45	OUTPATIENT CLASSIFICATION STOP CODE EXCEPTION	@	d	@	@	@
409.62	APPOINTMENT GROUP	@	d	@	@	@
409.63	APPOINTMENT STATUS	@	d	@	@	@
409.64	QUERY OBJECT	@	d	@	@	@
409.65	APPOINTMENT STATUS UPDATE LOG	@	d	@	@	@
409.66	APPOINTMENT TRANSACTION TYPE	@	d	@	@	@
409.67	CLINIC GROUP	@		D	@	D
409.68	OUTPATIENT ENCOUNTER	@	d	@	@	@
409.73	TRANSMITTED OUTPATIENT ENCOUNTER	@	d	@	@	@
409.74	DELETED OUTPATIENT ENCOUNTER	@	d	@	@	@
409.75	TRANSMITTED OUTPATIENT ENCOUNTER ERROR	@	d	@	@	@
409.76	TRANSMITTED OUTPATIENT ENCOUNTER ERROR CODE	@	d	@	@	@

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
409.77	ACRP TRANSMISSION HISTORY	@	d	@	@	@
409.91	ACRP REPORT TEMPLATE	@		@	@	@
409.92	ACRP REPORT TEMPLATE PARAMETER	@		@	@	@

# **12 VADPT Variables**

VADPT is a utility routine designed to provide a central point where a programmer can obtain information concerning a patient's record. Supported entry points are provided which will return demographics, inpatient status, eligibility information, etc.

Access to patient information is not limited to using the supported entry points in VADPT. Integration agreements can be established through the DBA between PIMS and other packages to reference information. Additionally, several data elements are supported without an integration agreement.

## **12.1 SUPPORTED REFERENCES**

The following references to patient information (PATIENT file #2) are supported without an integration agreement. All nationally distributed cross-references on these fields are also supported.

FIELD NAME	FIELD #	GLOBAL LOCATION	TYPE OF ACCESS
NAME	(#.01)	0;1	Read
SEX	(#.02)	0;2	Read
DATE OF BIRTH	(#.03)	0;3	Read
AGE	(#.033)	N/A	Read
MARITAL STATUS	(#.05)	0;5	Read
RACE	(#.06)	0;6	Read
OCCUPATION	(#.07)	0;7	Read
RELIGIOUS PREFERENCE	(#.08)	0;8	Read
DUPLICATE STATUS	(#.081)	0;18	
PATIENT MERGED	(#.082)	0;19	
CHECK FOR DUPLICATE	(#.083)	0;20	
SOCIAL SECURITY NUMBER	(#.09)	0;9	Read
REMARKS	(#.091)	0;10	Read
PLACE OF BIRTH [CITY]	(#.092)	0;11	Read

#### Table 30: Supported References

FIELD NAME	FIELD #	GLOBAL LOCATION	TYPE OF ACCESS
PLACE OF BIRTH [STATE]	(#.093)	0;12	Read
WHO ENTERED PATIENT	(#.096)	0;15	Read
DATE ENTERED INTO FILE	(#.097)	0;16	Read
WARD LOCATION	(#.1)	.1;1	Read
ROOM-BED	(#.101)	.101;1	Read
CURRENT MOVEMENT	(#.102)	.102;1	Read
TREATING SPECIALTY	(#.103)	.103;1	Read
PROVIDER	(#.104)	.104;1	Read
ATTENDING PHYSICIAN	(#.1041)	.1041;1	Read
CURRENT ADMISSION	(#.105)	.105;1	Read
LAST DMMS EPISODE NUMBER	(#.106)	.106;1	Read
LODGER WARD LOCATION	(#.107)	.107;1	Read
CURRENT ROOM	(#.108)	.108;1	Read
CONFIDENTIAL PHONE NUMBER	(#.1315)	.1315	Read
CURRENT MEANS TEST STATUS	(#.14)	0;14	Read
DATE OF DEATH	(#.351)	.35;1	Read
DEATH ENTERED BY	(#.352)	.35;2	Read
PRIMARY LONG ID	(#.363)	.36;3	
PRIMARY SHORT ID	(#.364)	.36;4	
CURRENT PC PRACTITIONER	(#404.01)	PC;1	Read
CURRENT PC TEAM	(#404.02)	PC;2	Read
LAST MEANS TEST	(#999.2)	N/A	Read

## **12.2CALLABLE ENTRY POINTS IN VADPT**

## 12.2.1 DEM^VADPT

This entry point returns demographic information for a patient.

INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAPTYP** This optional variable can be set to the internal number of a patient eligibility. The variable can be used to indicate the patient's type such as VA, DOD, or IHS through the eligibility. If this variable is not defined or the eligibility does not exist, the VA patient IDs will be returned.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VADM(1) would be VADM("NM"))

2 -- return the output in the ^UTILITY global with numeric subscripts (e.g., ^UTILITY("VADM",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts (e.g., ^UTILITY("VADM",\$J,"NM"))

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGDEM")

#### OUTPUT:

**VADM(1)** The NAME of the patient. (e.g., ADTPATIENT, ONE)

**VADM(2)** The SOCIAL SECURITY NUMBER of the patient in internal^external format. (e.g., 000456789^000-45-6789)

**VADM(3)** The DATE OF BIRTH of the patient in internal^external format.

(e.g., 2551025^OCT 25,1955)

**VADM(4)** The AGE of the patient as of today, unless a date of death exists, in which case the age returned will be as of that date. (e.g., 36)

**VADM(5)** The SEX of the patient in internal<sup>^</sup>external format. (e.g., M<sup>^</sup>MALE)

**VADM(6)** The DATE OF DEATH of the patient, should one exist, in internal^external format.

(e.g., 2881101.08^NOV 1,1988@08:00)

**VADM(7)** Any REMARKS concerning this patient which may be on file. (e.g., Need to obtain dependent info.)

**VADM(8)** The RACE of the patient in internal^external format. (e.g., 1^WHITE,NON-HISPANIC)

NOTE: This has been left for historical purposes only as the RACE field has been replaced by the RACE INFORMATION multiple.

**VADM(9)** The RELIGION of the patient in internal<sup>^</sup>external format. (e.g., 99<sup>^</sup>CATHOLIC)

**VADM(10)** The MARITAL STATUS of the patient in internal^external format. (e.g., 1^MARRIED)

**VADM(11)** Number of entries found in the ETHNICITY INFORMATION multiple. (e.g., 1)

**VADM(11,1..n)** Nth repetition of ETHNICITY INFORMATION for the patient in internal^external format. (e.g., 1^HISPANIC OR LATINO)

**VADM(11,1..n,1)** METHOD OF COLLECTION for the Nth repetition of ETHNICITY INFORMATION for the patient in internal^external format. (e.g., 2^PROXY))

VADM(12) Number of entries found in the RACE INFORMATION multiple.

(e.g., 1)

**VADM(12,1..n)** Nth repetition of RACE INFORMATION for the patient in internal^external format. (e.g., 11<sup>^</sup>WHITE)

**VADM(12,1..n,1)** METHOD OF COLLECTION for the Nth repetition of RACE INFORMATION for the patient in internal^external format. (e.g., 2^PROXY))

**VA("PID")** The PRIMARY LONG ID for a patient. The format of this variable will depend on the type of patient if VAPTYP is set. (e.g., 000-45-6789)

**VA("BID")** The PRIMARY SHORT ID for a patient. The format of this variable will depend on the type of patient if VAPTYP is set. (e.g., 6789)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or ^DPT(DFN,0) is not defined

## 12.2.2 ELIG^VADPT

This entry point returns eligibility information for a patient.

#### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAEL(1) would be VAEL("EL"))

2 -- return the output in the ^UTILITY global with numeric subscripts (e.g., ^UTILITY("VAEL",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts (e.g., ^UTILITY("VAEL",\$J,"EL"))

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGELG")

#### OUTPUT:

**VAEL(1)** The PRIMARY ELIGIBILITY CODE of the patient in internal^external format. (e.g., 1^SERVICE CONNECTED 50-100%)

**VAEL(1,#)** An array of other PATIENT ELIGIBILITIES to which the patient is entitled to care, in internal^external format. The # sign represents the internal entry number of the eligibility in the ELIGIBILITY CODE file. (e.g., 13^PRISONER OF WAR)

**VAEL(2)** The PERIOD OF SERVICE of the patient in internal^external format. (e.g., 19^WORLD WAR I)

**VAEL(3)** If the SERVICE CONNECTED? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If service connected, the SERVICE CONNECTED PERCENTAGE field will be returned in the second piece. (e.g., 1^70)

**VAEL(4)** If the VETERAN (Y/N)? field is YES, a "1" will be returned; otherwise, a "0" will be returned. (e.g., 1)

**VAEL(5)** If an INELIGIBLE DATE exists, a "0" will be returned indicating the patient is ineligible; otherwise, a "1" will be returned. (e.g., 0)

**VAEL(5,1)** If ineligible, the INELIGIBLE DATE of the patient in internal^external format. (e.g., 2880101^JAN 1,1988)

**VAEL(5,2)** If ineligible, the INELIGIBLE TWX SOURCE in internal<sup>^</sup>external format. (e.g., 2<sup>^</sup>REGIONAL OFFICE)

**VAEL(5,3)** If ineligible, the INELIGIBLE TWX CITY. (e.g., ALBANY)

**VAEL(5,4)** If ineligible, the INELIGIBLE TWX STATE from which the ineligible notification was received in internal^external format.

(e.g., 36^NEW YORK)

VAEL(5,5) If ineligible, the INELIGIBLE VARO DECISION. (e.g., UNABLE TO VERIFY)

- VAEL(5,6) If ineligible, the INELIGIBLE REASON. (e.g., NO DD214)
- VAEL(6) The TYPE of patient in internal<sup>^</sup>external format. (e.g., 1<sup>^</sup>SC VETERAN)
- **VAEL(7)** The CLAIM NUMBER of the patient. (e.g., 123456789)

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**VAEL(8)** The current ELIGIBILITY STATUS of the patient in internal^external format. (e.g., V^VERIFIED)

VAEL(9) The CURRENT MEANS TEST STATUS of the patient CODE^

NAME. (e.g., A^MEANS TEST EXEMPT)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.3 MB^VADPT

This entry point returns monetary benefit information for a patient.

INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAMB(1) would be VAMB("AA"))

2 -- return the output in the ^UTILITY global with numeric subscripts

(e.g., ^UTILITY("VAMB",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts

(e.g., ^UTILITY("VAMB",\$J,"AA"))

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGMB")

# OUTPUT:

**VAMB(1)** If the RECEIVING A&A BENEFITS? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving A&A benefits, the TOTAL ANNUAL VA CHECK AMOUNT will be returned in the second piece. (e.g., 1^1000)

**VAMB(2)** If the RECEIVING HOUSEBOUND BENEFITS? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving housebound benefits, the TOTAL ANNUAL VA CHECK AMOUNT will be returned in the second piece. (e.g., 1^0)

**VAMB(3)** If the RECEIVING SOCIAL SECURITY field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving social security, the AMOUNT OF SOCIAL SECURITY will be returned in the second piece. (e.g., 0)

**VAMB(4)** If the RECEIVING A VA PENSION? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving a VA pension, the TOTAL ANNUAL VA CHECK AMOUNT will be returned in the second piece. (e.g., 1^563.23)

**VAMB(5)** If the RECEIVING MILITARY RETIREMENT? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving military retirement, the AMOUNT OF MILITARY RETIRE-MENT will be returned in the second piece. (e.g., 0)

**VAMB(6)** The RECEIVING SUP. SECURITY (SSI) field is being eliminated. Since v5.2, a "0" is returned for this variable.

**VAMB(7)** If the RECEIVING VA DISABILITY? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving VA disability, the TOTAL ANNUAL VA CHECK AMOUNT will be returned in the second piece. (e.g., 0)

**VAMB(8)** If the TYPE OF OTHER RETIRE-MENT field is filled in, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving other retirement, the AMOUNT OF OTHER RETIREMENT will be returned in the second piece. (e.g., 1^2500.12)

**VAMB(9)** If the GI INSURANCE POLICY? field is YES, a "1" will be returned in the first piece; otherwise, a "0" will be returned. If receiving GI insurance, the AMOUNT OF GI INSURANCE will be returned in the second piece. (e.g., 1^100000)

**VAERR** The error flag will have one of the following values.

- 0 -- no errors encountered
- 1 -- error encountered DFN or
- ^DPT(DFN,0) is not defined

# 12.2.4 SVC^VADPT

This entry point returns service information for a patient.

The VADPT API was updated to exclude any Future Discharge Date (FDD) record. The line tags for this API are SVC^VADPT, 7^VADPT, and 8^VADPT. The ICR for VADPT is 10061. More details can be found in FORUM, in the documentation of ICR 10061.

#### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VASV(1) would be

VASV("VN")) 2 -- return the output in the ^UTILITY global with numeric subscripts (e.g., ^UTILITY("VASV",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts (e.g., ^UTILITY("VASV",\$J,"VN"))

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGSVC")

#### OUTPUT:

**VASV(1)** If the VIETNAM SERVICE

INDICATED field is YES, a "1" will be returned; otherwise a "0" will be returned. (e.g., 0)

**VASV(1,1)** If Vietnam Service, the VIETNAM

FROM DATE in internal^external format. (e.g., 2680110^JAN 10,1968)

**VASV(1,2)** If Vietnam Service, the VIETNAM TO DATE in internal^external format. (e.g., 2690315^MAR 15,1969)

**VASV(2)** If the AGENT ORANGE EXPOS. INDICATED field is YES, a "1" will be returned; otherwise a "0" will be returned. (e.g., 0)

**VASV(2,1)** If Agent Orange exposure, the AGENT ORANGE REGISTRATION DATE in internal^external format.

(e.g., 2870513^MAY 13,1987)

**VASV(2,2)** If Agent Orange exposure, the AGENT ORANGE EXAMINATION DATE in internal^external format.

(e.g., 2871101^NOV 1,1987)

**VASV(2,3)** If Agent Orange exposure, AGENT ORANGE REPORTED TO C.O. date in internal^external format.

(e.g., 2871225^DEC 25,1987)

**VASV(2,4)** If Agent Orange exposure, AGENT ORANGE REGISTRATION #. (e.g., 123456)

**VASV(2,5)** If Agent Orange exposure, the AGENT ORANGE EXPOSURE LOCATION in internal^external format

(e.g., V^VIETNAM)

**VASV(3)** If the RADIATION EXPOSURE INDICATED field is YES, a "1" will be returned; otherwise a "0" will be returned (e.g., 0)

**VASV(3,1)** If Radiation Exposure, RADIATION REGISTRATION DATE in internal^external format.

(e.g., 2800202^FEB 02,1980)

**VASV(3,2)** If Radiation Exposure, RADIATION EXPOSURE METHOD in internal^external format.

(e.g., T^NUCLEAR TESTING)

**VASV(4)** If the POW STATUS INDICATED field is YES, a "1" will be returned; otherwise a "0" will be returned.

(e.g., 0)

**VASV(4,1)** If POW status, POW FROM DATE in internal^external format.

(e.g., 2450319^MAR 19,1945)

**VASV(4,2)** If POW status, POW TO DATE in internal^external format. (e.g., 2470101^JAN 1,1947)

**VASV(4,3)** If POW status, POW CONFINEMENT LOCATION in internal^external format.

(e.g., 2<sup>^</sup>WORLD WAR II - EUROPE)

**VASV(5)** If the COMBAT SERVICE INDICATED field is YES, a "1" will be returned; otherwise a "0" will be returned. (e.g., 0)

**VASV(5,1)** If combat service, COMBAT FROM DATE in internal^external format. (e.g., 2430101^JAN 1,1943)

**VASV(5,2)** If combat service, COMBAT TO DATE in internal^external format. (e.g., 2470101^JAN 1,1947)

**VASV(5,3)** If combat service, COMBAT SERVICE LOCATION in internal^external format. (e.g., 2^WORLD WAR II - EUROPE)

**VASV(6)** If a SERVICE BRANCH [LAST] field is indicated, a "1" will be returned in the first piece; otherwise a "0" will be returned. (e.g., 0)

**VASV(6,1)** If service branch, BRANCH OF SERVICE field in internal^external format. (e.g., 3^AIR FORCE)

**VASV(6,2)** If service branch, SERVICE NUMBER field in internal^external format. (e.g., 123456789)

**VASV(6,3)** If service branch, SERVICE DISCHARGE TYPE in internal^external format. (e.g., 1^HONORABLE)

**VASV(6,4)** If service branch, SERVICE ENTRY DATE in internal^external format. (e.g., 2440609^JUN 9,1944)

**VASV(6,5)** If service branch, SERVICE SEPARATION DATE in internal^external format. (e.g., 2480101^JAN 1,1948)

**VASV(6,6)** If service branch, SERVICE COMPONENT in internal code^external format.

(e.g., R^REGULAR)

**VASV(7)** If a SERVICE SECOND EPISODE field is indicated, a "1" will be returned; otherwise a "0" will be returned. (e.g., 0)

**VASV(7,1)** If second episode, BRANCH OF SERVICE field in internal^external format. (e.g., 3^AIR FORCE)

**VASV(7,2)** If second episode, SERVICE NUMBER field in internal^external format. (e.g., 123456789)

**VASV(7,3)** If second episode, SERVICE DISCHARGE TYPE in internal^external format. (e.g., 1^HONORABLE)

**VASV(7,4)** If second episode, SERVICE ENTRY DATE in internal^external format. (e.g., 2440609^JUN 9,1944)

**VASV(7,5)** If second episode, SERVICE SEPARATION DATE in internal^external format. (e.g., 2480101^JAN 1,1948)

VASV(7,6) If second episode, SERVICE COMPONENT in internal^external format.(e.g., R^REGULAR)

**VASV(8)** If a SERVICE THIRD EPISODE field is indicated, a "1" will be returned; otherwise a "0" will be returned. (e.g., 0)

**VASV(8,1)** If third episode, BRANCH OF SERVICE field in internal^external format. (e.g., 3^AIR FORCE)

**VASV(8,2)** If third episode, SERVICE NUMBER field in internal^external format. (e.g., 123456789)

**VASV(8,3)** If third episode, SERVICE DIS-CHARGE TYPE in internal^external

format. (e.g., 1<sup>A</sup>HONORABLE)

**VASV(8,4)** If third episode, SERVICE ENTRY DATE in internal^external format. (e.g., 2440609^JUN 9,1944)

VASV(8,5) If third episode, SERVICE SEPARATION DATE in internal^external format.(e.g., 2480101^JAN 1,1948)

**VASV(8,6)** If third episode, SERVICE COMPONENT in internal code^external format.(e.g., R^REGULAR)

**VASV(9)** If the CURRENT PH INDICATOR field is YES, a "1" will be returned; otherwise a "0" will be returned (e.g., 0)

**VASV(9,1)** If the CURRENT PH INDICATOR field is YES, CURRENT PURPLE HEART STATUS in internal^external format.(e.g., 2^IN PROCESS)

**VASV(9,2)** If the CURRENT PH INDICATOR field is NO, CURRENT PURPLE HEART REMARKS in internal<sup>^</sup>external format. (e.g., 5<sup>^</sup>VAMC)

VASV(10) Is either 1 or 0, 1 if there is a value for Combat Vet End Date, 0 if not

VASV(10,1) Internal Combat Vet End Date ^external Combat Vet End Date (e.g., 3060101^JAN 1, 2006)

**VASV(11)** the # of OIF conflict entries found for the veteran in the SERVICE [OEF OR OIF] #2.3215 SUB-FILE.

[n = 1-> total number of OIF conflict entries]

**VASV(11,n,1)** SERVICE LOCATION (#2.3215; .01) internal code=1^external (e.g., 1^OIF) 'n'--> This number will be used to provide a unique number for each OIF or a conflict being returned.

3060101^JAN 1, 2006) 'n'--> This number will be used to provide a unique number for each OIF conflict being returned.

**VASV(11,n,3)** OEF/OIF TO DATE (#2.3215; .03) internal format ^external format (e.g., 3060101^MAR 1, 2006) 'n'--> This number will be used to provide a unique number for each OIF conflict being returned.

**VASV(12)** the # of OEF conflict entries found for the veteran in the SERVICE [OEF OR OIF] #2.3215 SUB-FILE. [n = 1 - VASV(12)]

VASV(12,n,1) SERVICE LOCATION (#2.3215; .01) internal code = 2 ^external

(e.g., 2^OEF) 'n'--> This number will be used to provide a unique number for each OEF conflict being returned.

**VASV(12,n,2)** OEF/OIF FROM DATE (#2.3215; .02) internal format ^external format (e.g., 3060101^JAN 1, 2006) 'n'--> This number will be used to provide a unique number for each OEF conflict being returned.

**VASV(12,n,3)** OEF/OIF TO DATE (#2.3215; .03) internal format ^external format (e.g., 3060101^MAR 1, 2006) 'n'--> This number will be used to provide a unique number for each OEF conflict being returned.

**VASV(13)** the # of UNKNOWN OEF/OIF conflict entries found for the veteran in the SEVICE [OEF OR OIF] #2.3215 SUB-FILE. [n = 1 - VASV(13)]

**VASV(13,n,1)** SERVICE LOCATION (#2.3215; .01) internal CODE = 3^external format (e.g., 3^UNKNOWN OEF/OIF) 'n'--> This number will be used to provide a unique number for each UNKNOWN OEF/OIF conflict being returned.

**VASV(13,n,2)** OEF/OIF FROM DATE (#2.3215; .02) internal format ^external format (e.g., 3060101^JAN 1, 2006) 'n'--> This number will be used to provide a unique number for each UNKNOWN OEF/OIF conflict being returned.

**VASV(13,n,3)** OEF/OIF TO DATE (#2.3215; .03) internal format ^external format (e.g., 3060101^MAR 1, 2006) 'n'--> This number will be used to provide a unique number for each UNKNOWN OEF/OIF conflict being returned.

**VASV(14)** If the PROJ 112/ SHAD field is populated, a "1" will be returned; otherwise, a "0" will be returned (e.g., 0)

**VASV(14,1)** If the PROJ 112/SHAD field is populated, PROJ 112/SHAD in internal^external format. (e.g., 1^YES)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.5 ADD^VADPT

This entry point returns address data for a patient. If a temporary address is in effect, the data returned will be that pertaining to that temporary address; otherwise, the permanent patient address information will be returned.

# INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAPA(1) would be VAPA("L1"))

2 -- return the output in the ^UTIL-ITY global with numeric subscripts (e.g., ^UTILITY("VAPA", \$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts (e.g., ^UTILITY("VAPA",\$J,"L1"))

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output.(e.g., VAROOT="DGADD")

**VAPA(''P'')** This optional variable can be set to force the return of the patient's permanent address. The permanent address array will be returned regardless of whether or not a temporary address is in effect.

(e.g., VAPA("P")="")

**VAPA(''CD'')**This is an optional input parameter set to an effective date in VA File Manager format to manipulate the active/inactive status returned in the VAPA(12) node. The indicator reflects the active status as of the date specified or the current date if VAPA("CD") is undefined.

**VATEST("ADD",9)** This optional variable can be defined to a beginning date in VA File-Manager format. If the entire range specified is not within the effective time window of the temporary address start and stop dates, the patient's regular address is returned. (e.g., VATEST("ADD",9)=2920101)

**VATEST(''ADD'',10)** This optional variable can be defined to a ending date in VA FileManager format. If the entire range specified is not within the effective time window of the temporary address start and stop dates, the patient's regular address is returned. (e.g., VATEST(''ADD'',10)=2920301)

#### OUTPUT:

VAPA(1) The f	irst line of the	e STREET ADDRESS	5.
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(e.g., 123 South Main Street)

**VAPA(2)** The second line of the STREET ADDRESS. (e.g., Apartment #1245.)

**VAPA(3)** The third line of the STREET ADDRESS. (e.g., P.O. Box 1234)

**VAPA(4)** The CITY corresponding to the street address previously indicated. (e.g., ALBANY)

**VAPA(5)** The STATE corresponding to the city previously indicated in internal^external format.

(e.g., 6<sup>^</sup>CALIFORNIA)

**VAPA(6)** The ZIP CODE of the city previously indicated. (e.g., 12345)

**VAPA**(7) The COUNTY in which the patient is residing in internal^external format.

(e.g., 1^ALAMEDA)

**VAPA(8)** The PHONE NUMBER of the location in which the patient is currently residing. (e.g., (123) 456-7890)

**VAPA(9)** If the address information provided pertains to a temporary address, the TEMPORARY ADDRESS START DATE in internal^external format.

(e.g., 2880515^MAY 15,1988)

**VAPA(10)** If the address information provided pertains to a temporary address, the TEMPORARY ADDRESS END DATE in internal^external format. (e.g., 2880515^MAY 15,1988)

**VAPA(11)** The ZIP+4 (5 or 9 digit zip code) of the city previously indicated in internal^external format. (e.g., 123454444^12345-4444)

VAPA(12)	Confidential Address Active indicator. (O=Inactive 1=Active)
VAPA(13)	The first line of the Confidential Street Address.
VAPA(14)	The second line of the Confidential Street Address.
VAPA(15)	The third line of the Confidential Street Address.
<b>VAPA(16)</b>	The city for the Confidential Address.
<b>VAPA(17)</b> YORK)	The state for the Confidential Address in internal^external format. (e.g., 36^NEW

**VAPA(18)** The 5 digit or 9 digit Zip Code for the Confidential Address in internal^external format. (e.g., 12208^12208 or 122081234^12208-1234)

**VAPA(19)** The county for the Confidential Address in internal^external format. (e.g., 1^ALBANY)

**VAPA(20)** The start date for the Confidential Address in internal^external format. (e.g., 3030324^MAR 24,2003)

**VAPA(21)** The end date for the Confidential Address in internal^external format. (e.g., 3030624^JUN 24,2003)

**VAPA(22,N)** The Confidential Address Categories in internal^external format^status (n=internal value) (e.g., VAPA(22,4)=4^MEDICAL RECORDS^Y)

**VAPA(23)** The Permanent or Temporary Province (if temp address is current and active, it's temp)

**VAPA(24)** The Permanent or Temporary Postal Code (if temp address is current and active, it's temp)

**VAPA(25)** The Permanent or Temporary Country (if temp address is current and active, it's temp)

VAPA(26) The Confidential Province

VAPA(27) The Confidential Postal Code

VAPA(28) The Confidential Country

VAPA(29) The Confidential Phone Number

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.6 OAD^VADPT

This entry point returns other specific address information.

INPUT:

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**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAOA(1) would be VAOA("L1"))

2 -- return the output in the ^UTILITY global with numeric subscripts

(e.g., ^UTILITY("VAOA",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts

(e.g., ^UTILITY("VAOA,\$J,"L1")

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGOA")

**VAOA("A")** This optional variable may be passed to indicate which specific address the programmer wants returned. If it is not defined, the PRIMARY NEXT-OF-KIN will be returned. Otherwise, the following will be returned based on information desired.

<b>VAOA(''A</b> ") =1	primary emergency contact
VAOA("A") =2	designee for personal effects
VAOA("A") =3	secondary next-of-kin
VAOA("A") =4	secondary emergency contact
VAOA("A") =5	patient employer
VAOA(''A'') =6	spouse's employer

# OUTPUT:

# **VAOA(1)** The first line of the STREET ADDRESS.

(e.g., 123 South First Street)

VAOA(2) The second line of the STREET ADDRESS. (e.g., Apartment 9D)

**VAOA(3)** The third line of the STREET ADDRESS. (e.g., P.O. Box 1234)

**VAOA(4)** The CITY in which the contact/employer resides.(e.g., NEWINGTON)

**VAOA(5)** The STATE in which the contact/employer resides in internal^external format. (e.g., 6^CALIFORNIA)

**VAOA(6)** The ZIP CODE of the location in which the contact/employer resides. (e.g., 12345)

**VAOA(7)** The COUNTY in which the contact/employer resides in internal^external format. (e.g., 1^ALAMEDA)

VAOA(8) The PHONE NUMBER of the contact/employer.

(e.g., (415) 967-1234)

**VAOA(9)** The NAME of the contact or, in case of employment, the employer to whom this address information applies. (e.g., SMITH,ROBERT P.)

**VAOA(10)** The RELATIONSHIP of the contact (if applicable) to the patient; otherwise, null. (e.g., FATHER)

**VAOA(11)** The ZIP+4 (5 or 9 digit zip code) of the location in which the contact/employer resides in internal^external format. (e.g., 123454444^12345-4444)

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**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.7 INP^VADPT

This entry point will return data related to an inpatient episode.

#### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAIN(1) would be VAIN("AN"))

2 -- return the output in the ^UTILITY global with numeric subscripts

(e.g., ^UTILITY("VAIN",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts

(e.g., ^UTILITY("VAIN,\$J,"AN")

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output.(e.g., VAROOT="DGIN")

**VAINDT** This optional variable may be set to a past date/time for which the programmer wishes to know the patient's inpatient status. This must be passed as an internal VA FileManager date/time format. If time is not passed, it will assume anytime during that day. If this variable is not defined, it will assume now as the date/time. (e.g., 2880101.08)

Output: VAIN(1) The INTERNAL NUMBER [IFN] of the admission if one was found for the date/time requested. If no inpatient episode was found for the date/time passed, then all variables in the VAIN array will be returned as null.(e.g., 123044)

**VAIN(2)** The PRIMARY CARE PHYSICIAN [PROVIDER] assigned to the patient at the date/time requested in internal^external format.(e.g., 3^SMITH,JOSEPH L.)

**VAIN(3)** The TREATING SPECIALTY assigned to the patient at the date/time requested in internal^external format.(e.g., 19^GERIATRICS)

**VAIN(4)** The WARD LOCATION to which the patient was assigned at the date/time requested in internal^external format.(e.g., 27^IBSICU)

**VAIN(5)** The ROOM-BED to which the patient was assigned at the date/time requested in external format.(e.g., 123-B)

**VAIN(6)** This will return a "1" in the first piece if the patient is in a bed status; otherwise, a "0" will be returned. A non-bed status is made based on the last transfer type to a non-bed status, (i.e., authorized absence, unauthorized absence, etc.) The second piece will contain the name of the last transfer type should one exist.(e.g., 1^FROM AUTHORIZED ABSENCE)

**VAIN(7)** The ADMISSION DATE/TIME for the patient in internal^external format. (e.g., 2870213.0915^FEB 13,1987@09:15)

**VAIN(8)** The ADMISSION TYPE for the patient in internal^external format. (e.g., 3^DIRECT)

**VAIN(9)** The ADMITTING DIAGNOSIS for the patient. (e.g., PSYCHOSIS)

**VAIN(10)** The internal entry number of the PTF record corresponding to this admission. (e.g., 2032)

**VAIN(11)** The ATTENDING PHYSICIAN in internal^external format. (e.g., 25^ADTPROVIDER,ONE)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or^DPT(DFN,0) is not defined

# 12.2.8 IN5^VADPT

This entry point will return data related to an inpatient episode.

INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAIP(1) would be VAIP("MN"))

2 -- return the output in the ^UTILITY

PIMS

global with numeric subscripts

(e.g., ^UTILITY("VAIP",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts

(e.g., ^UTILITY("VAIP",\$J,"MN")

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output.(e.g., VAROOT="DGI5")

**VAIP(''D'')** This optional variable can be defined as follows.

**VAIP(''D'')** =VA FileManager date in internal format. If the patient was an inpatient at the date/time passed, movement data pertaining to that date/time will be returned.

**VAIP(''D'')** ="LAST" Movement data pertaining to the last movement on file, regardless if patient is a current inpatient.

**VAIP(''D'')** =valid date without time Will return movement data if patient was an inpatient at any time during the day on the date that was passed in.

**VAIP(''D'')** - not passed Will return movement data if the patient was in inpatient based on "now".

**VAIP(''L'')** This optional variable, when passed, will include lodgers movements in the data. (e.g., VAIP("L")="")

**VAIP(''V'')** Can be defined as the variable used instead of VAIP (e.g., VAIP("V")="SD")

**VAIP(''E'')** This optional variable is defined as the internal file number of a specific movement. If this is defined, VAIP("D") is ignored.

(e.g., VAIP("E")=123445)

**VAIP(''M'')** This optional variable can be passed as a "1" or a "0" (or null).

**VAIP(''M'')=0** - The array returned will be based on the admission movement associated with the movement date/time passed.

**VAIP(''M'')=1** - The array returned will be based on the last movement associated with the date/time passed.

#### OUTPUT:

## VAIP(1) The INTERNAL FILE NUMBER

[IFN] of the movement found for the specified date/time. (e.g., 231009)

VAIP(2) The TRANSACTION TYPE of the movement in internal^external format where: 1=admission 2=transfer 3=discharge 4=check-in lodger 5=check-out lodger 6=specialty transfer

(e.g., 3<sup>^</sup>DISCHARGE)

**VAIP(3)** The MOVEMENT DATE/TIME in internal^external date format. (e.g., 2880305.09^MAR 5,1988@09:00)

**VAIP(4)** The TYPE OF MOVEMENT in internal^external format. (e.g., 4^INTERWARD TRANSFER)

**VAIP(5)** The WARD LOCATION to which patient was assigned with that movement in internal^external format. (e.g., 32^1B-SURG)

**VAIP(6)** The ROOM-BED to which the patient was assigned with that movement in internal^external format. (e.g., 88^201-01)

**VAIP(7)** The PRIMARY CARE PHYSICIAN assigned to the patient in internal^external format. (e.g., 3^ADTPROVIDER,TEN)

PIMS

**VAIP(8)** The TREATING SPECIALTY assigned with that movement in internal^external format. (e.g., 98^OPTOMETRY)

**VAIP(9)** The DIAGNOSIS assigned with that movement. (e.g., UPPER GI BLEEDING)

**VAIP(10)** This will return a "1" in the first piece if the patient is in a bed status; otherwise, a "0" will be returned. A non-bed status is made based on the last transfer type, if one exists, and a transfer to a non-bed status, (i.e., authorized absence, unauthorized absence, etc.) The second piece will contain the name of the last transfer type should one exist. (e.g., 1^FROM AUTHORIZED ABSENCE)

**VAIP(11)** If patient is in an absence status on the movement date/time, this will return the EXPECTED RETURN DATE from absence in internal^external format.

(e.g., 2880911^SEP 11,1988)

**VAIP(12)** The internal entry number of the PTF record corresponding to this admission. (e.g., 2032)

**VAIP(13)** The INTERNAL FILE NUMBER of the admission associated with this movement. (e.g., 200312)

**VAIP(13,1)** The MOVEMENT DATE/TIME in internal^external format.

(e.g., 2881116.08^NOV 16,1988@08:00)

**VAIP(13,2)** The TRANSACTION TYPE in internal^external format. (e.g., 1^ADMISSION)

**VAIP(13,3)** The MOVEMENT TYPE in internal^external format. (e.g., 15^DIRECT)

**VAIP(13,4)** The WARD LOCATION associated with this patient with this movement in internal^external format.(e.g., 5^7BSCI)

**VAIP(13,5)** The PRIMARY CARE PHYSICIAN assigned to the patient for this movement in internal^external format. (e.g., 16^JONES, CHARLES C)

**VAIP(13,6)** The TREATING SPECIALTY for the patient for this movement in internal^external format.(e.g., 3^NEUROLOGY)

**VAIP(14)** The INTERNAL FILE NUMBER of the last movement associated with this movement.

(e.g., 187612)

**VAIP(14,1)** The MOVEMENT DATE/TIME in internal^external format.(e.g., 2881116.08^NOV 16,1988@08:00)

**VAIP(14,2)** The TRANSACTION TYPE in internal^external format. (e.g., 2^TRANSFER)

**VAIP(14,3)** The MOVEMENT TYPE in internal^external format. (e.g., 4^INTERWARD TRANSFER)

**VAIP(14,4)** The WARD LOCATION associated with this patient with this movement in internal^external format.

(e.g., 5^7BSCI)

**VAIP(14,5)** The PRIMARY CARE PHYSICIAN assigned to the patient for this movement in internal^external format.(e.g., 16^JONES, CHARLES C)

**VAIP(14,6)** The TREATING SPECIALTY for the patient for this movement in internal^external format.(e.g., 3^NEUROLOGY)

**VAIP(15)** The INTERNAL FILE NUMBER of the movement which occurred immediately prior to this one, if one exists. (e.g., 153201)

**VAIP(15,1)** The MOVEMENT DATE/TIME in internal^external format.

(e.g., 2881116.08^NOV 16,1988@08:00)

**VAIP(15,2)** The TRANSACTION TYPE in internal^external format.

(e.g., 2<sup>^</sup>TRANSFER)

**VAIP(15,3)** The MOVEMENT TYPE in internal^external format. (e.g., 4^INTERWARD TRANSFER)

**VAIP(15,4)** The WARD LOCATION associated with this patient with this movement in internal^external format.

(e.g., 5^7BSCI)

**VAIP**(15,5) The PRIMARY CARE PHYSICIAN assigned to the patient for this movement in internal^external format.

(e.g., 16<sup>ADTPROVIDER,TWO)</sup>

**VAIP(15,6)** The TREATING SPECIALTY for the patient for this movement in internal^external format.(e.g., 3^NEUROLOGY)

**VAIP(16)** The INTERNAL FILE NUMBER of the movement which occurred immediately following this one, if one exists. (e.g., 146609)

VAIP(16,1) The MOVEMENT DATE/TIME in internal^external format. (e.g., 2881116.08^NOV 16,1988@08:00)

**VAIP(16,2)** The TRANSACTION TYPE ininternal^external format. (e.g., 2^TRANSFER)

**VAIP(16,3)** The MOVEMENT TYPE in internal^external format. (e.g., 4^INTERWARD TRANSFER)

**VAIP(16,4)** The WARD LOCATION associated with this patient with this movement in internal^external format. (e.g., 5^7BSCI)

**VAIP(16,5)** The PRIMARY CARE PHYSICIAN assigned to the patient for this movement in internal^external format. (e.g., 16^ADTPROVIDER,THREE)

**VAIP(16,6)** The TREATING SPECIALTY for the patient for this movement in internal^external format.(e.g., 3^NEUROLOGY)

**VAIP(17)** The INTERNAL FILE NUMBER of the discharge associated with this movement. (e.g., 1902212)

**VAIP(17,1)** The MOVEMENT DATE/TIME in internal^external format.(e.g., 2881116.08^NOV 16,1988@08:00)

**VAIP(17,2)** The TRANSACTION TYPE in internal^external format.(e.g., 3^DISCHARGE)

**VAIP(17,3)** The MOVEMENT TYPE in internal format.(e.g., 16^REGULAR)

**VAIP(17,4)** The WARD LOCATION associated with this patient for this movement iinternal^external format.(e.g., 5^7BSCI)

**VAIP(17,5)** The PRIMARY CARE PHYSICIAN assigned to the patient for this movement in internal^external format.(e.g., 16^ADTPROVIDER,ONE)

**VAIP(17,6)** The TREATING SPECIALTY for the patient for this movement in internal^external format. (e.g., 3^NEUROLOGY)

**VAIP(18)** The ATTENDING PHYSICIAN assigned to the patient for this movement in internal^external format.(e.g., 25^ADTPROVIDER,TEN)

**VAIP(19,1)** Will contain whether or not the patient chose to be excluded from the facility directory for the admission related to this movement in internal^external format.(e.g., 1^YES)

**VAIP(19,2)** Date/time answer to facility directory question was answered in internal^external format.

(e.g., 3030426.08^APR26,2003@08:00)

**VAIP(19,3)** User entering answer to facility directory question in internal^external format. (e.g., 1934^ADTEMPLOYEE,ONE)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or^DPT(DFN,0) is not defined

# 12.2.9 OPD^VADPT

Returns other pertinent patient data which is commonly used but not contained in any other calls to VADPT.

#### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAHOW** This optional variable can be set to a requested format for the output array. If this variable is not defined or does not contain one of the following values, the output array will be returned with numeric subscripts.

1 -- return the output array with alpha subscripts - see alpha subscripts section (e.g., VAPD(1) would be VAPD("BC"))

2 -- return the output in the ^UTILITY global with numeric subscripts

(e.g., ^UTILITY("VAPD",\$J,1))

12 -- return the output in the ^UTILITY global with alpha subscripts

(e.g., ^UTILITY("VAPD",\$J,"BC")

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output.(e.g., VAROOT="DGPD")

#### OUTPUT:

**VAPD(1)** The PLACE OF BIRTH [CITY].

(e.g., SAN FRANCISCO)

**VAPD(2)** The PLACE OF BIRTH [STATE] in internal^external format.(e.g., 6^CALIFORNIA)

**VAPD(3)** The FATHER'S NAME.(e.g., ADTFATHER,ONE)

- VAPD(4) The MOTHER'S NAME.(e.g., MARY)
- **VAPD(5)** The MOTHER'S MAIDEN NAME.(e.g., ADTMOTHER,ONE)

**VAPD(6)** The patient's OCCUPATION.(e.g., CARPENTER)

PIMS

**VAPD(7)** The patient's EMPLOYMENT STATUS in internal^external format. (e.g., 4^SELF EMPLOYED)

**VAPD(8)** The patient's Phone Number (work)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.10 REG<sup>^</sup>VADPT

Returns REGISTRATION/DISPOSITION data.

#### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAROOT** This optional variable can be set to a local variable or global name in which to return the output. (e.g., VAROOT="DGADD")

**VARP(''F'')** Can be defined as the "from" date for which registrations are desired. This must be passed as a valid VA File-Manager date. (e.g., VARP("F")=2930101)

**VARP("T")** Can be defined as the "to" date for which registrations are desired. This must be passed as a valid VA File-Manager date. If neither VARP("F") nor VARP("T") are defined, all registrations will be returned. (e.g., VARP("T")=2930530)

**VARP(''C'')** Can be defined as the number of registrations you want returned in the array.

(e.g., VARP("C")=5 - will return 5 most recent)

#### OUTPUT:

^UTILITY("VARP",\$J,#,"I") Internal format

^UTILITY("VARP",\$J,#,"E") External format

Piece 1 Registration Date/Time

Piece 2Status

Piece 3 Type of Benefit applied for

PIMS

Piece 4Facility Applying to Piece 5Who Registered Piece 6Log out (disposition) date/time Piece 7Disposition Type Piece 8Who Dispositioned

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or ^DPT(DFN,0) is not defined

# 12.2.11 SDE^VADPT

Returns ACTIVE clinic enrollments for a patient.

### INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

### OUTPUT:

^UTILITY("VAEN",\$J,#,"I")Internal format^UTILITY("VAEN",\$J,#,"E")External formatPiece 1 Clinic Enrolled inPiece 2 Enrollment DatePiece 3 OPT or AC

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or ^DPT(DFN,0) is not defined

# 12.2.12 SDA^VADPT

Returns APPOINTMENT DATE/TIME data for a patient.

# INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VASD("T")** Can be defined as the "to" date for which registrations are desired. This must be passed as a valid VA File-Manager date. If neither VASD("F") nor VASD("T") are defined, all future appointments will be returned.

**VASD(''F'')** Can be defined as the "from" date for which appointments are desired. This must be passed as a valid VA File-Manager date. If not defined, it is assumed only future appointments should be returned.

**VASD("W")** Can be passed as the specific STATUS desired in the following format. If not passed, only those appointments which are still scheduled (or kept in the event of a past date) for both inpatients and outpatients will be returned.

#### If VASD("W")

Contains a	These appts. are returned
1	Active/Kept
2	Inpatient appts. only
3	No-shows
4	No-shows, auto-rebook
5	Cancelled by Clinic
6	Cancelled by Clinic, auto rebook
7	Cancelled by Patient
8	Cancelled by Patient,
	auto rebook
9 No	action taken

**VASD**("C", Clinic IFN)Can be set up to contain only those internal file entries from the HOSPITAL LOCATION file for clinics which you would like to see appointments for this particular patient.

You may define this array with just one clinic or with many. If you do not define this variable, it will be assumed that you want appointments for this patient in all clinics returned.

#### OUTPUT:

^UTILITY("VASD",\$J,#,"I")Internal format

^UTILITY("VASD",\$J,#,"E") External format

Piece 1 Date/Time of Appointment

Piece 2Clinic

Piece 3 Status

Piece 4 Appointment Type

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.13 PID^VADPT

This call is used to obtain the patient identifier in long and brief format.

INPUT:

**DFN** This required variable is the internal

entry number in the PATIENT file.

**VAPTYP** This optional variable can be set to the internal number of a patient eligibility. The variable can be used to indicate the patient's type such as VA, DOD, or IHS through the eligibility. If this variable is not defined or the eligibility does not exist, the VA patient IDs will be returned.

#### OUTPUT:

VA("PID") The long patient identifier. (e.g., 000-22-3333P)

VA("BID") The short patient identifier. (e.g., 3333P)

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or

^DPT(DFN,0) is not defined

# 12.2.14 PID^VADPT6

This call returns the same variables as the call mentioned above, but will eliminate the unnecessary processing time required calling PID^VADPT.

# 12.2.15 ADM^VADPT2

This returns the internal file number of the admission movement. If VAINDT is not defined, this will use "NOW" for the date/time.

INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file.

**VAINDT** This optional variable may be set to a past date/time for which the programmer wishes to know the patient's inpatient status. This must be passed as an internal VA FileManager date/time format.

(e.g., 2880101.08)

#### OUTPUT:

**VADMVT** Returns the internal file number of the admission movement.

**VAERR** The error flag will have one of the following values.

0 -- no errors encountered

1 -- error encountered - DFN or ^DPT(DFN,0) is not defined

# 12.2.16 KVAR^VADPT

This call is used to remove all variables defined by the VADPT routine. The programmer should elect to utilize this call to remove the arrays which were returned by VADPT.

# 12.2.17 KVA^VADPT

This call is used as above and will also kill the VA("BID") and VA("PID") variables.

# 12.2.18 COMBINATIONS

The following calls may be made to return a combination of arrays with a single call.

INPUT:

**DFN** This required variable is the internal entry number in the PATIENT file. See specific call for other variable input

#### Table 31: Call Combinations

CALL	VADM	VAEL	VAIN	VAIP	VAPA	VASV	VAMB	UTILITY("VARP	UTILITY("VAEN	UTILIYY", VASD
OERR	X		X							
1	х		Х							
2	X	Х								
3		Х	Х							
4	х				Х					
5			X		X					
6	x	Х			X					
7		Х				х				
8		Х				х	Х			
9	x							х	х	х
10									х	х
51	х			х						
52		Х		Х						
53				Х	х					
ALL	X	Х	X		х	х	Х	х	х	х
A5	Х	Х		Х	х	х	Х	Х	х	Х

#### Table 32: Alpha Subscripts

CALL	VARIABLE	ALPHA TRANSLATION
DEM^VADPT	VADM(1)	VADM("NM")
	VADM(2)	VADM("SS")
	VADM(3)	VADM("DB")
	VADM(4)	VADM("AG")
	VADM(5)	VADM("SX")
	VADM(6)	VADM("EX")
	VADM(7)	VADM("RE")
	VADM(8)	VADM("RA")
	VADM(9)	VADM("RP")
	VADM(10)	VADM("MS")
ELIG^VADPT	VAEL(1)	VAEL("EL")
	VAEL(1,#)	VAEL("EL",#)
	VAEL(2)	VAEL("PS")
	VAEL(3)	VAEL("SC")
	VAEL(4)	VAEL("VT")
	VAEL(5)	VAEL("IN")
	VAEL(5,#)	VAEL("IN",#)
	VAEL(6)	VAEL("TY")
	VAEL(7)	VAEL("CN")
	VAEL(8)	VAEL("ES")
	VAEL(9)	VAEL("MT")
MB^VADPT	VAMB(1)	VAMB("AA")
	VAMB(2)	VAMB("HB")
	VAMB(3)	VAMB("SS")
	VAMB(4)	VAMB("PE")
	VAMB(5)	VAMB("MR")
	VAMB(6)	VAMB("SI")
	VAMB(7)	VAMB("DI")
	VAMB(8)	VAMB("OR")
	VAMB(9)	VAMB("GI")

CALL	VARIABLE	ALPHA TRANSLATION
SVC^VADPT	VASV(1)	VASV("VN")
	VASV(1,#)	VASV("VN",#)
	VASV(2)	VASV("AO")
	VASV(2,#)	VASV("AO",#)
	VASV(3)	VASV("IR")
	VASV(3,#)	VASV("IR",#)
	VASV(4)	VASV("PW")
	VASV(4,#)	VASV("PW",#)
	VASV(5)	VASV("CS")
	VASV(5,#)	VASV("CS",#)
	VASV(6)	VASV("S1")
	VASV(6,#)	VASV("S1",#)
	VASV(7)	VASV("S2")
	VASV(7,#)	VASV("S2",#)
	VASV(8)	VASV("S3")
	VASV(8,#)	VASV("S3",#)
	VASV(9)	VASV("PH")
	VASV(9,#)	VASV("PH",#)
	VASV(10)	VASV("CV")
	VASV(10,#)	VASV("CV",#)
	VASV(11)	VASV("OIF")
	VASV(11,#)	VASV("OIF",#)
	VASV(12)	VASV("OEF")
	VASV(12,#)	VASV("OEF",#)
	VASV(13)	VASV("UNK")
	VASV(13,#)	VASV("UNK",#)
	VASV(14)	VASV("SHD")
	VASV(14,#)	VASV("SHD",#)
ADD^VADPT	VAPA(1)	VAPA("L1")
	VAPA(2)	VAPA("L2")
	VAPA(3)	VAPA("L3")
	VAPA(4)	VAPA("CI")

CALL	VARIABLE	ALPHA TRANSLATION
	VAPA(5)	VAPA("ST")
	VAPA(6)	VAPA("ZP")
	VAPA(7)	VAPA("CO")
	VAPA(8)	VAPA("PN")
	VAPA(9)	VAPA("TS")
	VAPA(10)	VAPA("TE")
	VAPA(11)	VAPA("Z4")
	VAPA(12)	VAPA("CCA")
	VAPA(13)	VAPA("CL1")
	VAPA(14)	VAPA("CL2")
	VAPA(15)	VAPA("CL3")
	VAPA(16)	VAPA("CCI")
	VAPA(17)	VAPA("CST")
	VAPA(18)	VAPA("CZP")
	VAPA(19)	VAPA("CCO")
	VAPA(20)	VAPA("CCS")
	VAPA(21)	VAPA("CCE")
	VAPA(22)	VAPA("CTY")
	VAPA(23)	VAPA("PR")
	VAPA(24)	VAPA("PC")
	VAPA(25)	VAPA("CT")
	VAPA(26)	VAPA("CPR")
	VAPA(27)	VAPA("CPC")
	VAPA(28)	VAPA("CCT")
	VAPA(29)	VAPA("CPN")
OAD^VADPT	VAOA(1)	VAOA("L1")
	VAOA(2)	VAOA("L2")
	VAOA(3)	VAOA("L3")
	VAOA(4)	VAOA("CI")
	VAOA(5)	VAOA("ST")
	VAOA(6)	VAOA("ZP")
	VAOA(7)	VAOA("CO")

CALL	VARIABLE	ALPHA TRANSLATION
	VAOA(8)	VAOA("PN")
	VAOA(9)	VAOA("NM")
	VAOA(10)	VAOA("RE")
	VAOA(11)	VAOA("Z4")
INP^VADPT	VAIN(1)	VAIN("AN")
	VAIN(2)	VAIN("DR")
	VAIN(3)	VAIN("TS")
	VAIN(4)	VAIN("WL")
	VAIN(5)	VAIN("RB")
	VAIN(6)	VAIN("BS")
	VAIN(7)	VAIN("AD")
	VAIN(8)	VAIN("AT")
	VAIN(9)	VAIN("AF")
	VAIN(10)	VAIN("PT")
	VAIN(11)	VAIN("AP")
IN5^VADPT	VAIP(1)	VAIP("MN")
	VAIP(2)	VAIP("TT")
	VAIP(3)	VAIP("MD")
	VAIP(4)	VAIP("MT")
	VAIP(5)	VAIP("WL")
	VAIP(6)	VAIP("RB")
	VAIP(7)	VAIP("DR")
	VAIP(8)	VAIP("TS")
	VAIP(9)	VAIP("MF")
	VAIP(10)	VAIP("BS")
	VAIP(11)	VAIP("RD")
	VAIP(12)	VAIP("PT")
	VAIP(13)	VAIP("AN")
	VAIP(13,#)	VAIP("AN",#)
	VAIP(14)	VAIP("LN")
	VAIP(14,#)	VAIP("LN",#)
	VAIP(15)	VAIP("PN")

CALL	VARIABLE	ALPHA TRANSLATION
	VAIP(15,#)	VAIP("PT",#)
	VAIP(16)	VAIP("NN")
	VAIP(16,#)	VAIP("NN",#)
	VAIP(17)	VAIP("DN")
	VAIP(17,#)	VAIP("DN",#")
	VAIP(18)	VAIP("AP")
OPD^VADPT	VAPD(1)	VAPD("BC")
	VAPD(2)	VAPD("BS")
	VAPD(3)	VAPD("FN")
	VAPD(4)	VAPD("MN")
	VAPD(5)	VAPD("MM")
	VAPD(6)	VAPD("OC")
	VAPD(7)	VAPD("ES")
	VAPD(8)	VAPD("WP")

# 13 Scheduling Application Programmer Interfaces (APIs)

The Scheduling functions and data that support outpatient scheduling are being re-engineered and re-hosted as a Government Off-the-Shelf (GOTS) application. During implementation, the appointment data currently stored in the Patient sub-file (2.98) and the Hospital Location sub-files (44.001, 44.003) have been moved into an Enterprise Oracle database on an external platform.

The API released in an implementing patch is one of several that provide the only authorized interface to appointment data. It is designed to retrieve appointments from either data source: VistA or the Oracle database.

Existing direct global references to Scheduling globals, as well as FileManager calls in all Mbased applications, must be removed or redesigned. There are several possible options described below:

- 1) **Remove**. Eliminate uses of appointment data whenever possible. Access to appointment data over the network may be slower than direct access in VistA. For example, if the application displays patient appointments as a convenience feature, the display could be removed from the function because the user can get the same information directly using the Scheduler Graphical User Interface (GUI). Keeping the display in the application may become an inconvenience feature when the network is slow or unavailable. This strategy emphasizes application un-coupling in preparation for a future Clinical Context Object Workgroup (CCOW)-based application environment.
- 2) **Replace**. If the appointment data are required to support the business processes of the application, one of the encapsulation APIs must be used to interface the application with the new Resource Scheduling System. The look and feel of the application will remain the same although retrieval times may be slower.
  - a. **Data Layer**. To optimize an application process that uses appointments, it is important to call the API only once during process execution. In most cases to achieve this it will be necessary to use the API to create a data layer. The API is called once and stores the data in a temporary global. Business processing does not start until after all the required data are retrieved in the 'data layer'.
  - b. **Error Handling**. As the data is retrieved from a remote database, errors could occur which may be returned to applications; therefore, it is also important to design error handling. If this is implemented now, it will not be necessary to add it later when the data is retrieved from the remote database.

# 13.1.1 Special Features

This section describes the special features of the Scheduling Replacement API "SDAPI" that retrieves appointment information stored in sub-files 2.98, 44.001, and 44.003. Appointment data can be retrieved by patient(s), clinic(s), both, or neither. Three other appointment fields are available for filtering. See "SDAPI - Filters" for a complete list of available appointment filters.

This API is an encapsulation API and has special features.

• Flexibility. This API can be implemented now without re-programming later because it will retrieve the same information from either database (FM globals or SQL tables). Each field in the table below has been assigned an independent identifying number that is used in the input parameter of the API. See "SDAPI - Data Fields" for a more detailed list of the available data fields.

#### Table 33: Special Features

-	
1	APPOINTMENT DATE/TIME
2	CLINIC IEN and NAME
3	APPOINTMENT STATUS
4	PATIENT DFN and NAME
5	LENGTH OF APPOINTMENT
6	COMMENTS
7	OVERBOOK
8	ELIGIBILITY OF VISIT IEN and NAME
9	CHECK-IN DATE/TIME
10	APPOINTMENT TYPE IEN and NAME
11	CHECK-OUT DATE/TIME
12	OUTPATIENT ENCOUNTER IEN
13	PRIMARY STOP CODE IEN and CODE
14	CREDIT STOP CODE IEN and CODE
15	WORKLOAD NON-COUNT
16	DATE APPOINTMENT MADE

17	DESIRED DATE OF APPOINTMENT
18	PURPOSE OF VISIT and SHORT DESCRIPTION
19	EKG DATE/TIME
20	X-RAY DATE/TIME
21	LAB DATE/TIME
22	STATUS
23	X-RAY FILMS
24	AUTO-REBOOKED APPOINTMENT DATE/TIME
25	NO-SHOW/CANCEL DATE/TIME
26	RSA APPOINTMENT ID
28	DATA ENTRY CLERK DUZ AND NAME
29	NO-SHOW/CANCELED BY DUZ AND NAME
30	CHECK-IN USER DUZ AND NAME
31	CHECK-OUT USER DUZ AND NAME
32	CANCELLATION REASON IEN AND NAME
33	CONSULT LINK

**Note:** Field 27 is reserved for the 2507 Request IEN to be available in a future release.

**Error Code 101**. The API returns error code 101 when the network is too slow or is down. Applications that depend upon information stored in an external database must be reprogrammed to handle this condition. Without network error handling, applications may either hang indefinitely or error out. At this point, there is one error code to indicate a network problem. See "SDAPI - Error Codes" for a complete list of all API error codes.

**Error Code 116.** The API returns error code 116 when the data returned from the RSA database doesn't match the data on VistA. An example of this would be if the RSA returns an IEN that doesn't exist on VistA. Applications must be re-programmed to handle this condition. See "SDAPI - Error Codes" for a complete list of all API error codes.

**Error Code 117**. The API returns error code 117 when the other error codes don't apply. This error code will incorporate any additional errors that may be included or returned in the future.

Adding this error code will prevent re-coding of current applications, as these new error codes are introduced. See "SDAPI - Error Codes" for a complete list of all API error codes.

**External Data Source**. The API is designed to be used with an external database. The API pulls over all the data required by the application function in one request and stores it in a temporary global. The temporary global can then be used in place of the Hospital Location sub-files (44.001, 44.003) and the Patient sub-file (2.98) to perform the business logic of the application, separating the data layer from the business layer. See the example below.

**Example:** The process of encapsulation will involve, in part, replacing direct global references in routines with APIs. As an example, consider the following piece of code. This code is designed to retrieve appointment date/time, patient DFN and name, and length of appointment for all DGCLN clinic appointments up to DGLAST date.

```
F S DGDATE=$O(^SC(DGCLN, "S", DGDATE)) Q:'DGDATE!(DGDATE>DGLAST) D
. S DGAPT=0 F S DGAPT=$O(^SC(DGCLN, "S", DGDATE, 1, DGAPT)) Q:'DGAPT D
. . S DGPAT=$P(^SC(DGCLN, "S", DGDATE, 1, DGAPT, 0), U, 1)
. . I $G(DGPAT) S DGPATNAM=$P(^DPT(DGPAT, 0), U, 1))
. . S DGLOAPPT=$P(^SC(DGCLN, "S", DGDATE, 1, DGAPT, 0), U, 2)
CONTINUE PROCESSING AS NEEDED
```

Using the API, the code may be changed as follows:

#### ;DATA LAYER

S DGARRAY(1)=";"\_DGLAST

S DGARRAY("FLDS")="1;4;5"

S DGARRAY(2)=DGCLN

S DGCNT=\$\$SDAPI^SDAMA301(.DGARRAY)

#### BUSINESS LAYER

```
; if data is returned, process appointment data
   I DGCNT>0 S DGPAT=0 F S DGPAT=$0(^TMP($J,"SDAMA301",DGCLN,DGPAT)
Q:DGPAT="" D
   . S DGDATE=0 F S DGDATE=$0(^TMP($J, "SDAMA301", DGCLN, DGPAT, DGDATE)
 O:DGDATE=""
             D
   .. S DGLOAPPT=$P($G(^TMP($J,"SDAMA301",DGCLN,DGPAT,DGDATE)),U,5) ;length
 of appt
   .. S DGPINFO=$P($G(^TMP($J, "SDAMA301", DGCLN, DGPAT, DGDATE)), U, 4) ; patient
DFN and Name
   .. S DGPATNAM=$P(DGPINFO,";",2) ;patient name
   .. continue processing appointment data as needed
   ; if error returned, process error
   I DGCNT<0 D
   . ; check error array for DATABASE IS UNAVAILABLE error
   . I $D(^TMP($J,"SDAMA301,101)) D
   .. process error as needed (calling application to determine how to
handle this)
   . ; check error array for DATA MISMATCH error
   . I $D(^TMP($J,"SDAMA301,116)) D
   .. process error as needed (calling application to determine how to
handle this)
```

```
;kill the temporary array
I DGCNT'=0 K ^TMP($J,"SDAMA301")
```

Application Programmer Interface - SDAPI

Name: SDAPI ; Retrieve Filtered Appointment Data

- Declaration: \$\$SDAPI^SDAMA301(.ARRAY)
- Description: This API returns filtered appointment information and should be called using an EXTRINSIC call. To use this API, subscribe to Integration Agreement

#4433.

Argument: ARRAY – An array, passed by value, that is defined and name-spaced by the calling application, containing the following parameters: Field List Required APRAY("FLDS") List of appointment field IDs

```
<u>Field List</u> Required, ARRAY("FLDS"). List of appointment field IDs requested,
```

	each ID separated by a semicolon or "ALL" to indicate all fields are being requested. See "SDAPI - Data Fields" for a complete list
	of available appointment fields and their associated IDs.
	of available appointment neids and their associated iDs.
<u>Filters</u>	Optional. See "SDAPI - Filters" for a complete list of available
	appointment filters and their input array format.
Max Appts	Optional, ARRAY("MAX"). Maximum appointments requested.
See	
	"SDAPI - Filters" for a description and valid values of this array
	entry.
Sort	Optional, ARRAY("SORT"). Allows the output to be sorted by
patient	
	DFN, instead of by Patient and Clinic IENs. See "SSDAPI -
	Filters" for a description and valid values of this array entry.
Purged	Optional, ARRAY("PURGED"). Output will include non-
canceled	
	appointments that were purged from the Hospital Location file yet

still exist on the patient file. See "SDAPI - Filters" for a

populated, and several fields will not be available to request

description and the valid value for this array entry. If this optional array entry is passed into the API, there are 2 other conditions that must be met else error 115 will be generated: ARRAY(4) must be

because those fields are either located on the Hospital Location file (which was purged of the appointment) or are calculated using data from the Hospital Location file. Those fields are 5-9, 11, 22, 28, 30, 31, and 33. See "SDAPI - Data Fields" for a description of

**RETURN VALUES:** 

From the extrinsic call, this API will return "-1" if an error occurred, "0" if no appointment is found that matches the filter criteria, or account of the returned appointments. If no appointment is found that matches the filter criteria, the  $^{TMP}(\$J, "SDAMA301")$  global will not be generated.

those fields.

If appointments are found that match the filter criteria, fields 1 through 5 and 7 through 26 of the appointments will be returned in:

^TMP(\$J, "SDAMA301", SORT1, SORT2, APPT DATE/TIME) =field1^field2^field3^... where SORT1 and SORT2 are driven by the patient filter and defined in the table below, and field1 is appointment data ID 1 (appt date/time) if requested, field2 is appointment data ID 2 (clinic IEN and name) if requested, etc. Note: Piece 6 will always be null, because if field 6 (Appointment comments) is requested, the comments will appear on the subscript ("C") of the global reference:

^TMP(\$J,"SDAMA301",SORT1,SORT2,APPT DATE/TIME,"C")=field 6.

Fields 28 through 33 will be returned in:

```
^TMP($J,"SDAMA301",SORT1,SORT2,APPT DATE/TIME,0) =
field28^field29^field30^...
```

Patient Filter is	Sort Values
Populated	SORT1 is Patient DFN, SORT2 is Clinic IEN
Not Populated	SORT1 is Clinic IEN, SORT2 is Patient DFN

In addition, there is another filter value which can be set to alter the output. If ARRAY("SORT")="P", then the output will only include the subscript Patient DFN and not Clinic IEN, overriding the Sort Values described above. IE. ^TMP(\$J,"SDAMA301", DFN, APPT DATE/TIME)=field1^field2...

**Note**: As mentioned above, field 6 will always be null and if field 6 (Appointment Comments) is requested, the comments will appear on the next subscript ("C") of the global reference.

IE. ^TMP(\$J,"SDAMA301",DFN,APPT DATE/TIME,"C")=field 6.

If an error occurs, the error codes and messages will be returned in

^TMP(\$J,"SDAMA301",error code) = error message

See "SDAPI - Error Codes" for a list of error codes and messages.

Other: When processing has completed, kill the temporary array:

^TMP(\$J,"SDAMA301")

See "SDAPI - Constraints" for constraints.

PIMS

### **13.2SDAPI - EXAMPLES**

1) **<u>By Clinic</u>**. Get all appointments for clinic 501 on 01/05/04. Get patient DFN and name, and appointment status. Note that the output will be sorted first by clinic, then patient, then appointment date/time. Clinic is first sort because the patient filter is not populated.

```
N SDARRAY, SDCOUNT, SDDFN, SDDATE, SDAPPT, SDPAT, SDPATNAM, SDSTATUS
S SDARRAY(1) = "3040105;3040105"
S SDARRAY(2)=501
                               ← order is irrelevant
S SDARRAY("FLDS") = "4;3"
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ;get patient
. S SDDFN=0 F S SDDFN=$0(^TMP($J,"SDAMA301",501,SDDFN)) Q:SDDFN="" D
. . ;get appointment date/time
. . S SDDATE=0 F S SDDATE=$0(^TMP($J,"SDAMA301",501,SDDFN,SDDATE))
O:SDDATE=" D
. . . S SDAPPT=$G(^TMP($J,"SDAMA301",501,SDPATDFN,SDDATE)) ;appointment data
. . . S SDSTATUS=$P($G(SDAPPT),"^",3) ;appointment status
. . . S SDPAT=$P($G(SDAPPT), "^",4) ;patient DFN and Name
. . . S SDPATNAM=$P($G(SDPAT),";",2) ;patient Name only
continue processing this appointment as needed
I SDCOUNT<0 D
do processing for errors 101 and 116
```

when finished with all processing, kill the output array

I SDCOUNT'=0 K ^TMP(\$J,"SDAMA301")

2) <u>By Patient</u>. Get the next (after today) scheduled/regular appointment for patient 100. Get the appointment date/time, clinic IEN and name, and appointment status. Note that the output will be sorted first by patient, then clinic, then appointment date/time. Patient is first sort because it is populated.

```
N SDARRAY, SDCOUNT, SDCLIEN, SDDATE, SDAPPT, SDSTATUS, SDCLINFO, SDCLNAME
S SDARRAY(1)=DT ".2359"
S SDARRAY(3) = "R; I"
S SDARRAY(4)=100
S SDARRAY("MAX")=1
S SDARRAY("FLDS")="1;2;3"
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ; get clinic
. S SDCLIEN=0 F S SDCLIEN=$0(^TMP($J,"SDAMA301",100,SDCLIEN)) Q:SDCLIEN="" D
. . ; get appointment date/time
. . S SDDATE=0 F S SDDATE=$0(^TMP($J,"SDAMA301",100,SDCLIEN,SDDATE))
O:SDDATE=" D
. . . S SDAPPT=$G(^TMP($J,"SDAMA301",100,SDCLIEN,SDDATE)) ;appointment data
. . . S SDSTATUS=$P(SDAPPT, "^", 3) ;appt status
. . . S SDCLINFO=$P(SDAPPT, "^",2) ; clinic IEN and Name
. . . S SDCLNAME=$P(SDCLINFO,";",2) ;clinic Name only
continue processing this appointment as needed
I SDCOUNT<0 D
do processing for errors 101 and 116
when finished with all processing, kill output array
```

```
I SDCOUNT'=0 K ^TMP($J,"SDAMA301")
```

**3**) **<u>By Patient and Clinic</u>**. Get all appointments for patient 100 in clinic 501, for January 2004. Get the appointment date/time and credit stop code IEN. Note that the output will be sorted first by patient, then clinic, then appointment date/time. Patient is first sort because it is populated.

```
N SDARRAY, SDCOUNT, SDDATE, SDAPPT, SDCRSTOP
```

```
S SDARRAY(1) = "3040101;3040131"
```

- S SDARRAY(2)=501
- S SDARRAY(4)=100
- S SDARRAY("FLDS")="1;14;16"
- S SDCOUNT=\$\$SDAPI^SDAMA301(.SDARRAY)
- I SDCOUNT>0 D
- . ; get appointment date/time

```
. S SDDATE=0 F S SDDATE=$0(^TMP($J,"SDAMA301",100,501,SDDATE)) Q:SDDATE="" D
```

. . S SDAPPT=\$G(^TMP(\$J,"SDAMA301",100,501,SDDATE)) ;appointment data

```
. . S SDCREDIT=$P(SDAPPT, "^",14) ;credit stop code IEN
```

```
. . I G(SDCREDIT)'=";" S SDCRIEN=<math display="inline">P(SDCREDIT,";",1) ;credit stop code IEN only
```

continue processing this appointment as needed

I SDCOUNT<0 D

do processing for errors 101 and 116

when finished with all processing, kill output array

```
I SDCOUNT'=0 K ^TMP($J,"SDAMA301")
```

**4**) **<u>By neither Patient nor Clinic</u>**. Get all appointments for primary stop code 300, for January 2004. Get the appointment status. Note that the output will be sorted first by clinic, then patient, then appointment date/time. Clinic is first sort because the patient filter is not populated.

```
N SDARRAY, SDCOUNT, SDCLIEN, SDDFN, SDDATE, SDAPPT, SDSTATUS
```

```
S SDARRAY(1)="3040101;3040131"
S SDARRAY(13) = 300
S SDARRAY(4) = 100
S SDARRAY("FLDS") = "3"
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ; get clinic
. S SDCLIEN=0 F
                  S SDCLIEN=$O(^TMP($J, "SDAMA301", SDCLIEN))
Q:SDCLIEN=" D
. . ; get patient
. . S SDDFN=0 F
                  S SDDFN=$O(^TMP($J,"SDAMA301",SDCLIEN,SDDFN))
O:SDDFN=" D
. . . ; get appointment date/time
. . . S SDDATE=0 F
                     S
SDDATE=$0(^TMP($J, "SDAMA301", SDCLIEN, SDDFN, SDDATE)) Q:SDDATE=""
D
. . . . S
SDSTATUS=$P($G(^TMP($J,"SDAMA301",100,501,SDDATE)),"^",3) ;appoi
ntment status
continue processing this appointment as needed
I SDCOUNT<0 D
do processing for errors 101 and 116
when finished with all processing, kill output array
```

I SDCOUNT'=0 K ^TMP(\$J,"SDAMA301")

Warning: For the quickest performance, this API should be run with a patient and/or clinic filter. Omission of both filters will result in a lengthy query (time and data).

5) By Clinic with "Sort" filter defined. Get all appointments for clinic 501 on 01/05/04. Get patient DFN and name, and appointment status. Note that the output will be sorted first by patient, then appointment date/time. Patient is only sort because the SORT filter is populated. N SDARRAY, SDCOUNT, SDDFN, SDDATE, SDAPPT, SDPAT, SDPATNAM, SDSTATUS S SDARRAY(1) = "3040105;3040105" S SDARRAY(2)=501 S SDARRAY("SORT")="P" order is irrelevant S SDARRAY("FLDS")="4;3" S SDCOUNT=\$\$SDAPI^SDAMA301(.SDARRAY) I SDCOUNT>0 D .; get patient .S SDDFN=0 F S SDDFN=\$0(^TMP(\$J,"SDAMA301",SDDFN)) Q:SDDFN="" D . . ; get appointment date/time . . S SDDATE=0 F S SDDATE=\$0(^TMP(\$J,"SDAMA301",SDDFN,SDDATE)) Q:SDDATE="" D . . . S SDAPPT=\$G(^TMP(\$J,"SDAMA301",SDDFN,SDDATE)) ;appointment data . . . S SDSTATUS=\$P(\$G(SDAPPT), "^", 3) ; appointment status . . . S SDPAT=\$P(\$G(SDAPPT), "^",4) ;patient DFN and Name . . . S SDPATNAM=\$P(\$G(SDPAT),";",2) ;patient Name only ; continue processing this appointment as needed I SDCOUNT<0 D do processing for errors 101 and 116 when finished with all processing, kill the output array I SDCOUNT'=0 K ^TMP(\$J,"SDAMA301")

6) <u>By Clinic with "Sort" filter defined</u>. Get all appointments for Clinic 501 on 01/05/04. Get patient DFN, and name, and appointment comments. Note that the output will be sorted first by patient, then appointment date/time, and the comments will appear on the next reference with the subscript "C". Patient is only sort because the SORT filter is populated.

```
N SDARRAY, SDCOUNT, SDDFN, SDDATE, SDAPPT, SDPAT, SDPATNAM, SDCMMNT
S SDARRAY(1) = "3040105;3040105"
S SDARRAY(2)=501
S SDARRAY("SORT") = "P"

    order is irrelevant

S SDARRAY("FLDS") = "4;6"
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ; get patient
. S SDDFN=0 F S SDDFN=$0(^TMP($J,"SDAMA301",SDDFN)) Q:SDDFN="" D
. . ; get appointment date/time
. . S SDDATE=0 F S SDDATE=$0(^TMP($J,"SDAMA301",SDDFN,SDDATE)) Q:SDDATE="" D
. . . S SDAPPT=$G(^TMP($J,"SDAMA301",SDDFN,SDDATE)) ;appointment data
. . . S SDPAT=$P($G(SDAPPT), "^",4) ;patient DFN and Name
. . . S SDPATNAM=$P($G(SDPAT),";",2) ;patient Name only
. . . S SDCMMNT=$G(^TMP($J, ,"SDAMA301",SDDFN,SDDATE,"C"))
continue processing this appointment as needed
I SDCOUNT<0 D
do processing for errors 101 and 116
when finished with all processing, kill the output array
I SDCOUNT'=0 K ^TMP($J,"SDAMA301")
```

#### 7) Does patient 999 have any appointments on file?

```
N SDARRAY, SDCOUNT
```

- S SDARRAY(4)=999
- S SDARRAY("FLDS")=1
- S SDARRAY("MAX")=1
- S SDCOUNT=\$\$SDAP1^SDAMA301(.SDARRAY)
- I SDCOUNT>0 D

patient has appointments on file

- I SDCOUNT<0 D
- do processing for errors 101 and 116
- kill output array when processing is done

```
I SDCOUNT'=0 K ^TMP($J,"SDAMA301")
```

#### 8) Similar to example #4, but with a global list of patients

```
N SDARRAY, SDCOUNT, SDCLIEN, SDDFN, SDDATE, SDAPPT, SDSTATUS
```

```
S SDARRAY(1)="3040101;3040131"
```

```
S SDARRAY(13)=300
```

```
S ^SDDFN(1019974)=""
```

```
S ^SDDFN(1019975)=""
```

```
S ^SDDFN(1019976)=""
```

```
S ^SDDFN(1019977)=""
```

```
S ^SDDFN(1019978)=""
```

```
S ^SDDFN(1019979)=""
```

```
S SDARRAY(4) = "^SDDFN("
```

```
S SDARRAY("FLDS") = "3"
```

```
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
```

```
I SDCOUNT>0 D
```

```
. ; get clinic
```

```
. S SDCLIEN=0 F S SDCLIEN=$0(^TMP($J,"SDAMA301",SDCLIEN)) Q:SDCLIEN="" D
```

```
. . ;get patient
```

```
. . S SDDFN=0 F S SDDFN=$O(^TMP($J,"SDAMA301",SDCLIEN,SDDFN)) Q:SDDFN="" D
```

```
. . . ; get appointment date/time
```

```
. . . S SDDATE=0 F S SDDATE=$0(^TMP($J,"SDAMA301",SDCLIEN,SDDFN,SDDATE))
Q:SDDATE="" D
```

```
. . . . S
SDSTATUS=$P($G(^TMP($J,"SDAMA301",100,501,SDDATE)),"^",3) ;appointment status
continue processing this appointment as needed
```

```
I SDCOUNT<0 D
```

```
do processing for errors 101 and 116
```

```
when finished with all processing, kill output array and user-defined patient list
```

```
I SDCOUNT'=0 K ^TMP($J,"SDAMA301")
```

```
K ^SDDFN
```

### 13.3 SDAPI - Data Fields

Available Appointment Data Fields:

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
1	APPOINTME NT DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The scheduled Appointment Date/Time	3031215.113 3031201.0815
2	CLINIC IEN and NAME	TEXT	ID^name	Clinic IEN and name	150;CARDIOLOGY 32;BLOOD DONOR
3	APPOINTME NT STATUS	TEXT	R (Scheduled/Kept) I (Inpatient) NS (No-Show) NSR (No-Show, Rescheduled) CP (Cancelled by Patient) CPR (Cancelled by Patient, Rescheduled) CC (Cancelled by Clinic) CCR (Cancelled by Clinic, Rescheduled) NT (No Action Taken)	The status of the appointment.	R;SCHEDULED/KEPT I;INPATIENT NS;NO-SHOW NSR;NO-SHOW & RESCHEDULED CP;CANCELLED BY PATIENT CPR;CANCELLED BY PATIENT & RESCHEDULED CC;CANCELLED BY CLINIC CCR;CANCELLED BY CLINIC & RESCHEDULED NT;NO ACTION TAKEN
4	PATIENT DFN and NAME	TEXT	DFN;name	Patient DFN and Patient Name.	34877;JONES,BOB 455;SCHILSON,BRIAN
5	LENGTH OF APPOINTME NT	TEXT	NNN	The scheduled length of appointment, in minutes.	20 60
6	COMMENTS	TEXT	free text	Any comments associated with the appointment.	PATIENT NEEDS WHEELCHAIR

 Table 34: Available Appointment Data Fields

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
					Note: Comments shall be located on the "C" subscript.
7	OVERBOOK	TEXT	Y or N	"Y" if appointment is an overbook else "N".	Y N
8	ELIGIBILITY OF VISIT IEN and NAME	TEXT	Local IEN; Local Name; National IEN; National Name	Local & National Eligibility codes and names associated with the appointment.	2;AID & ATTENDANCE;2;AID & ATTENDANCE 7;ALLIED VETERAN;7;ALLIED VETERAN 12; COLLATERAL OF VET.; 13; COLLATERAL OF VET.
9	CHECK-IN DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	Date/time the patient checked in for the appointment.	3031215.113
10	APPOINTME NT TYPE IEN and NAME	TEXT	IEN;name	Type of Appointment IEN and name.	1;COMPENSATION & PENSION 3;ORGAN DONORS 7; COLLATERAL OF VET.
11	CHECK-OUT DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	Date/time the patient checked out of the appointment.	3031215.113
12	OUTPATIENT ENCOUNTE R IEN	TEXT	NNN	The outpatient encounter IEN associated with this appointment.	4578
13	PRIMARY STOP CODE IEN and CODE	TEXT	IEN;code	Primary Stop code IEN and code associated with the clinic.	301;350

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
14	CREDIT STOP CODE IEN and CODE	TEXT	IEN;code	Credit Stop code IEN and code associated with the clinic.	549;500
15	WORKLOAD NON-COUNT	TEXT	Y or N	"Y" if clinic is non- count else "N".	Y N
16	DATE APPOINTME NT MADE	DATE	YYYMMDD	Date the appointment was entered into the Scheduling system.	3031215
17	DESIRED DATE OF APPOINTME NT	DATE	YYYMMDD	The date the clinician or patient desired for the scheduling of this appointment.	3031215
18	PURPOSE OF VISIT	TEXT	Code (1, 2, 3, or 4) and short description (C&P, 10-10, SV, or UV)	The Purpose of Visit.	1;C&P 2;10-10 3;SV 4;UV
19	EKG DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The scheduled date/time of the EKG tests in conjunction with this appointment.	3031215.083
20	X-RAY DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The scheduled date/time of the X-RAY in conjunction with this appointment.	3031215.083
21	LAB DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The scheduled date/time of the Lab tests in conjunction with this appointment.	3031215.083

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data
22	STATUS	TEXT	Status Code, Status Description, Print Status, Checked In Date/Time, Checked Out Date/Time, and Admission Movement IFN	Status Information for the Visit.	8;INPATIENT APPOINTMENT;INPAT IENT/CHECKED OUT;;3030218.1548;1 45844
23	X-RAY FILMS	TEXT	Y or N	"Y" if x-ray films are required at clinic else "N".	Y N
24	AUTO- REBOOKED APPOINTME NT DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The date/time that the appointment was Auto-Rebooked (rescheduled) to.	3031215.083
25	NO-SHOW / CANCEL DATE/TIME	DATE/TI ME	YYYMMDD.HHM M	The date/time that the appointment was No-Showed or Cancelled.	3031215.083
26	RSA APPOINTME NT ID	TEXT	NNN	The unique numeric Oracle ID that identifies a specific RSA appointment. This field will be null for appointments in legacy VistA.	34983
28	DATA ENTRY CLERK	TEXT	DUZ;Name	The DUZ and name of the clerk who scheduled the appointment.	24569;PERSON,NEW A
29	NO-SHOW / CANCELED BY	TEXT	DUZ;Name	The DUZ and name of the clerk who no-showed or canceled the appointment.	24569;PERSON,NEW A

ID	FIELD NAME	DATA TYPE	Format/Valid Values	Description	Examples of Returned Data	
30	CHECK IN USER	TEXT	DUZ;Name	The DUZ and name of the clerk who checked in the appointment.	24569;PERSON,NEW A	
31	CHECK OUT USER	TEXT	DUZ;Name	The DUZ and name of the clerk who checked out the appointment.	24569;PERSON,NEW A	
32	CANCELLATI ON REASON	ТЕХТ	DUZ;Name	IEN and Name of Cancellation Reason.	11;OTHER	
33	CONSULT LINK	TEXT	NNN	The Consult Link IEN associated with the appointment.	23123	
Note	Note: Field 27 is reserved for the 2507 Request IEN to be available in a future release.					

### SDAPI - Filters

### 13.3.1 Available Data Filters

#### INPUT

Six fields will allow a filter. All 6 fields can be filtered in one API call. A null/undefined filter will result in all values being returned.

APPOINTMENT DATA TO BE FILTERED	ARRAY ENTRY	Format	Examples of M code to set array with filter values
APPOINTMENT DATE/TIME	ARRAY(1)	Range of appointment date/times, "from" and "to" date/time separated by semicolon. Dates must be FileMan format YYYMMDD.HHMMS S ARRAY(1)="from date; to date"	S ARRAY(1)="3030101;3030101" (one day) S ARRAY(1)="3040101" (appts after 2003) S ARRAY(1)=";3031231" (all appts thru 3031231) S ARRAY(1)=DT (all appts from today forward) S ARRAY(1)=DT_";3041231" (all appts from today through 3041231)
CLINIC IEN	ARRAY(2)	List of valid clinic IENs (each separated by a semicolon) or a global root or a local root. Clinic must exist on Hospital Location file. ARRAY (2) ="ien1; ien2" etc. ARRAY(2)="^global(" ARRAY(2)="^global( #" ARRAY(2)="ocal(" ARRAY(2)="local(" ARRAY(2)="local(#" ARRAY(2)="local(#"	S ARRAY(2)=300 S ARRAY(2)="300;301;304" S ARRAY(2)="^GBL(" S ARRAY(2)="^GBL(""DFN""" S ARRAY(2)="^GBL(""DFN""," S ARRAY(2)="LOCAL(" S ARRAY(2)="LOCAL(""DFN"","

#### Table 35: Available Data Filters

APPOINTMENT DATA TO BE FILTERED	ARRAY ENTRY	Format	Examples of M code to set array with filter values
APPOINTMENT STATUS	ARRAY(3)	List of valid Appointment Status values, each separated by a semicolon. Valid values: R (Scheduled/Kept) I (Inpatient) NS (No-Show) NSR (No-Show, Rescheduled) CP (Cancelled by Patient) CPR (Cancelled by Patient, Rescheduled) CC (Cancelled by Clinic) CCR (Cancelled by Clinic, Rescheduled) NT (No Action Taken) ARRAY (3) ="status1; status2"	S ARRAY(3)="I" S ARRAY(3)="R;I;NT" S ARRAY(3)="CC;CCR;CP;CPR"
PATIENT DFN	ARRAY(4)	List of valid patient DFNs (each separated by a semicolon) or a global root or a local root. DFN must exist on PATIENT file. ARRAY (4) ="dfn1; dfn2" etc. ARRAY(4)="^global(" ARRAY(4)="^global( #" ARRAY(4)="^global( #,"	S ARRAY(4)=7179940 S ARRAY(4)="7179940;7179939;717992 0" S ARRAY(4)="^GBL(" S ARRAY(4)="^GBL(""IENLIST""" S ARRAY(4)="AGBL(""IENLIST""," S ARRAY(4)="LOCAL(" S ARRAY(4)="LOCAL(""IENLIST""" S ARRAY(4)="LOCAL(""IENLIST"","

APPOINTMENT DATA TO BE FILTERED	ARRAY ENTRY	Format	Examples of M code to set array with filter values
		ARRAY(4)="local(#" ARRAY(4)="local(#,"	
PRIMARY STOP CODE	ARRAY(1 3)	List of valid Primary Stop Code values (not IENs). Must be a valid AMIS REPORTING STOP CODE (field #1) on the CLINIC STOP file (#40.7). ARRAY (13) ="code1; code2" etc	S ARRAY(13)=197 S ARRAY(13)="197;198;200;203;207"
DATE APPOINTMENT MADE	ARRAY(1 6)	Range of Date Appointment Made dates; "from" and "to" dates separated by a semicolon. Dates must be in the FileMan format YYYMMDD (note: time is not allowed).	S ARRAY(16)= "3040101;3040101" (all appts that have a Date Appointment Made date of 3040101) S ARRAY(16)= "3040101" (appts that have a Date Appointment Made date from 3040101 forward) S ARRAY(16)= ";3031231" (all appts that have a Date Appointment Made date through 3031231) S ARRAY(16)=DT (all appts that have a Date Appointment Made date from today forward) S ARRAY(16)= DT_";3041231" (all appts that have a Date Appointment Made date from today through 3041231)

# 13.3.2 Input – Other Array Entries

DESCRIPTION	ARRAY ENTRY	Format	Examples of Array with filter
Field List - Required.	ARRAY("FLD S")	List of appointment field IDs, each separated by a semicolon. Order of fields is irrelevant. See "Data Fields" for the list of	ARRAY("FLDS")="1;2;3;6;7;14;20" ARRAY("FLDS")=1 ARRAY("FLDS")="ALL" ARRAY("FLDS")="all"

DESCRIPTION	ARRAY ENTRY	Format	Examples of Array with filter
		appointment field IDs. Or if all fields are required, then set array to "ALL" (case is irrelevant).	
		ARRAY ("FLDS") ="id1; id2; id3", etc. ARRAY("FLDS")="A LL"	
		Maximum number of appointments requested. Must be a whole number not equal to 0.	
Max Appointments - Optional	ARRAY("MA X")	ARRAY("MAX")=val ue If value > 0 or value="" return first "N" appointments. Else if value < 0 return last "N" appointments.	ARRAY("MAX")=1 ARRAY("MAX")=-1
Sort Appointments by Patient DFN – Optional	ARRAY("SO RT")	Allows the output to be sorted by Patient, instead of by Patient and Clinic. Must be set to 'P'. ARRAY("SORT")=va lue	ARRAY("SORT")="P"
Include Purged Appointments - Optional	ARRAY("PU RGED")	Allows the user to receive non- canceled Appts that were purged from sub-file #44.003. ARRAY("PURGED") =1	ARRAY("PURGED")=1

The Field List array entry must be populated, or else error 115 will be generated. See "SDAPI - Error Codes" for a complete list of error codes and messages.

The Maximum Appointments array entry is best used to retrieve the next or last "n" appointments for 1 patient and/or 1 clinic, in conjunction with the appointment date/time filter.

**Note:** If the Maximum Appointment array entry is set to a valid value and more than 1 patient and/or more than 1 clinic are passed to the API, or if no patient and clinic is passed to the API, the error 115 will be generated. See "SDAPI - Error codes" for a complete list of error codes and messages.

#### **EXAMPLE:**

APPOINTMENT DATA TO BE FILTERED

ARRAY ENTRY Format Examples of M code to set array with filter values

APPOINTMENT DATE/TIME ARRAY(1) Range of appointment date/times, "from" and "to" date/time separated by semicolon. Dates must be FileMan format YYYMMDD.HHMMSS

```
ARRAY(1)="from date; to date"
S ARRAY(1)="3030101;3030101" (one day)
S ARRAY(1)="3040101" (appts after 2003)
S ARRAY(1)=";3031231" (all appts thru 3031231)
S ARRAY(1)=DT (all appts from today forward)
S ARRAY(1)=DT_";3041231" (all appts from
                                                    today through 3041231)
CLINIC IEN ARRAY(2)
                        List of valid clinic IENs (each separated by a
semicolon) or a global root or a local root. Clinic must exist on Hospital
Location file.
ARRAY(2)="ien1;ien2" etc.
ARRAY(2)="^global("
ARRAY(2)="^global(#"
ARRAY(2)="^global(#,"
ARRAY(2) = "local("
ARRAY(2) = "local(#"
ARRAY(2) = "local(#, "
S ARRAY(2)=300
S ARRAY(2) = "300;301;304"
S ARRAY(2)="^GBL("
S ARRAY(2) = "^GBL(""DFN"""
S ARRAY(2)="^GBL(""DFN"","
S ARRAY(2)="LOCAL("
S ARRAY(2) = "LOCAL(""DFN"""
S ARRAY(2) = "LOCAL(""DFN"", "
APPOINTMENT STATUS
                                     List of valid Appointment Status values,
                        ARRAY(3)
each separated by a semicolon. Valid values:
R (Scheduled/Kept)
```

```
I (Inpatient)
NS (No-Show)
NSR (No-Show, Rescheduled)
CP (Cancelled by Patient)
CPR (Cancelled by Patient, Rescheduled)
CC (Cancelled by Clinic)
CCR (Cancelled by Clinic, Rescheduled)
NT (No Action Taken)
ARRAY(3)="status1;status2" etc.
S ARRAY(3)="I"
S ARRAY(3)="R;I;NT"
S ARRAY(3)="C;CCR;CP;CPR"
```

PATIENT DFN ARRAY(4) List of valid patient DFNs (each separated by a semicolon) or a global root or a local root. DFN must exist on PATIENT file.

```
ARRAY(4)="dfn1;dfn2" etc.
ARRAY(4)="^global("
ARRAY(4)="^global(#"
ARRAY(4)="^global(#,"
ARRAY(4)="local("
ARRAY(4)="local(#"
ARRAY(4)="local(#"
ARRAY(4)="local(#,"
S ARRAY(4)="7179940;7179939;7179920"
S ARRAY(4)="^GBL("
S ARRAY(4)="^GBL(""IENLIST"""
S ARRAY(4)="^GBL(""IENLIST"","
S ARRAY(4)="CGAL(""IENLIST"""
```

S ARRAY(4) = "LOCAL(""IENLIST"","

PRIMARY STOP CODE ARRAY(13) List of valid Primary Stop Code values (not IENs). Must be a valid AMIS REPORTING STOP CODE (field #1) on the CLINIC STOP file (#40.7).

ARRAY(13)="code1;code2" etc.

S ARRAY(13)=197

```
S ARRAY(13)="197;198;200;203;207"
```

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DATE APPOINTMENT MADE ARRAY(16) Range of Date Appointment Made dates; "from" and "to" dates separated by a semicolon. Dates must be in the FileMan format YYYMMDD

(note: time is not allowed).

Array(16) = "from date; to date"

S ARRAY(16)= "3040101;3040101" (all appts that have a Date Appointment Made date of 3040101)

S ARRAY(16)= "3040101" (appts that have a Date Appointment Made date from 3040101 forward)

S ARRAY(16)= ";3031231" (all appts that have a Date Appointment Made date through 3031231)

S ARRAY(16)=DT (all appts that have a Date Appointment Made date from today forward)

S ARRAY(16) = DT\_";3041231" (all appts that have a Date Appointment Made date from today through 3041231)

#### 13.3.3 Other Array Entries

#### **INPUT**

DESCRIPTION ARRAY ENTRY Format Examples of Array with filter

Field List - Required. ARRAY("FLDS")

List of appointment field IDs, each separated by a semicolon. Order of fields is irrelevant. See "Data Fields" for the list of appointment field IDs. Or if all fields are required, then set array to "ALL" (case is irrelevant).

```
ARRAY("FLDS")="id1;id2;id3", etc.
ARRAY("FLDS")="ALL"
                        ARRAY("FLDS")="1;2;3;6;7;14;20"
ARRAY("FLDS")=1
ARRAY("FLDS")="ALL"
ARRAY("FLDS")="all"
Max Appointments - Optional
                            ARRAY("MAX")
                                                Maximum number of
appointments requested. Must be a whole number not equal to 0.
ARRAY("MAX")=value
If value > 0 or value="" return first "N" appointments.
Else if value < 0 return last "N" appointments.
ARRAY("MAX")=1
ARRAY("MAX") = -1
Sort Appointments by Patient DFN - Optional
                                                ARRAY("SORT")
                                                                  Allows the
output to be sorted by Patient, instead of by Patient and Clinic. Must be set
to `P'.
ARRAY("SORT")=value ARRAY("SORT")="P"
```

Include Purged Appointments - Optional ARRAY("PURGED") Allows the user to receive non-canceled Appts that were purged from sub-file #44.003.

ARRAY("PURGED")=1 ARRAY("PURGED")=1

The Field List array entry must be populated, or else error 115 will be generated. See "SDAPI - Error Codes" for a complete list of error codes and messages.

The Maximum Appointments array entry is best used to retrieve the next or last "n" appointments for 1 patient and/or 1 clinic, in conjunction with the appointment date/time filter.

Note: If the Maximum Appointment array entry is set to a valid value and more than 1 patient and/or more than 1 clinic are passed to the API, or if no patient and clinic is passed to the API, the error 115 will be generated. See "SDAPI - Error codes" for a complete list of error codes and messages.

# 13.3.4 SDAPI - Error Codes

Error Codes and Associated Messages

#### Table 37: SDAPI – Error Codes

Error Code	Error Message	Occurs	
101	DATABASE IS UNAVAILABLE	If the Scheduling database or VistALink is unavailable	
115	INVALID INPUT ARRAY ENTRY	If the input array has an invalid entry or the field list is null	
116	DATA MISMATCH	If VistA and the database are out of sync. i.e., the database returns an IEN not found on VistA	
117	SDAPI ERROR	For catching new error codes that could be added at a later time.	
Financial data and 447 will not accurate the DCA has been implemented. Coding for			

Error codes 101, 116 and 117 will not occur until the RSA has been implemented. Coding for these error codes needs to be done now so that no other coding changes will need to be made in the future. Each application will need to decide how to handle the return of those three error codes.

# 13.3.5 SDAPI - Constraints

#### API CONSTRAINTS

Cancelled appointments are returned only if the patient filter is populated.

Cancelled appointments will always have null values in the following fields:

Length of Appointment Eligibility of Visit Comments

Check-Out Date/Time Check-In Date/Time Overbook

If you want canceled appointments, but don't want to specify a subset of patients, then set the patient filter [ARRAY(4)] equal to "^DPT(". This will result in canceled appointments being returned. Note, however, that this will decrease the performance time of the API, as it will spin through the entire VistA Patient file, looking for appointments in the specified clinics (if filter is populated). It will, however, have no negative performance impact when it retrieves appointments from the RSA.

The Max Appointments array entry can only be used with 1 patient and/or 1 clinic. If multiple patients and/or clinics are passed or no clinic and/or patient is passed, an error message will be generated.

Use of the PURGED array parameter requires 2 conditions to be met: the patient filter must be populated; and the field list must not contain fields 5-9, 11, 22, 28, 30, 31, or 33, otherwise error 115 will be returned.

## **13.3.6 Application Programmer Interface - GETAPPT**

Name:	GETAPPT ; Retrieve Appointment Data for a Patient ID		
Declaration:	GETAPPT^SDAMA201(SDIEN,SDFIELDS,SDAPSTAT, SDSTART,SDEND,SDRESULT,SDIOSTAT)		
Description: subscribe	Returns appointment information for a specific patient ID. To use this API,		
	to Integration Agreement #3859.		
Arguments:	SDIENPatient IEN (required)		
SDFIELDS	Field List (optional, each field number separated by a semi-colon)		
	SDAPSTAT Appointment Status Filter (optional, each value separated by a semi-colon. See "Filters" for default and valid values)		
SDSTART Start Date (optional, internal FileMan		Start Date (optional, internal FileMan format)	
SDRESULT Local variable to hold returned ap passed by reference)		End Date (optional, internal FileMan format)	
		Local variable to hold returned appointment Count (optional, rence)	
		Patient Status Filter (optional, see "Filters" for default and valid	

Field List: A null value in this parameter will result in ALL appointment data fields being returned. See "Data Fields" for a list of the field numbers and corresponding data available in this API.

Return Values: If no errors occur and appointments are found, SDRESULT will contain the appointment count and the requested data will be returned in:

 $^{TMP}(J, "SDAMA201", "GETAPPT", x, y) = field y data where 'x' is an incremental appointment count (starting with 1) and 'y' is the field number requested.$ 

If no errors occur and no appointments are found, then SDRESULT will contain a value of 0 and the ^TMP(\$J,"SDAMA201","GETAPPT",x,y) array will not be generated.

If an error occurs, SDRESULT will be –1 and the error codes and messages will be returned in ^TMP(\$J,"SDAMA201","GETAPPT","ERROR",error code) = error message. See "Error Codes" for a list of error codes and messages.

Other: When processing has completed, kill the temporary array: ^TMP(\$J,"SDAMA201","GETAPPT")

#### **GETAPPT EXAMPLES**

1) Retrieve scheduled/kept inpatient appointment date/time, clinic ID, appt status, comments, and patient status for patient 99 from 1/1/02 through 1/31/02:

```
>D GETAPPT^SDAMA201(99,"1;2;3;6;12","R",3020101,3020131,.SDRESULT,"I")
>ZW SDRESULT
SDRESULT=3
>ZW ^TMP($J,"SDAMA201","GETAPPT")
^TMP(1000, "SDAMA201", "GETAPPT", 1, 1) = 3020101.10
^TMP(1000, "SDAMA201", "GETAPPT", 1, 2)=130^TOM'S CLINIC
^TMP(1000, "SDAMA201", "GETAPPT", 1, 3) = "R"
^TMP(1000, "SDAMA201", "GETAPPT", 1, 6) = "PATIENT REQUESTS A RIDE HOME"
^TMP(1000, "SDAMA201", "GETAPPT", 1, 12) = "I"
^TMP(1000, "SDAMA201", "GETAPPT", 2, 1) = 3020115.08
^TMP(1000, "SDAMA201", "GETAPPT", 2, 2) = 150^BOB'S CLINIC
^TMP(1000, "SDAMA201", "GETAPPT", 2, 3) = "R"
^TMP(1000, "SDAMA201", "GETAPPT", 2, 6) =
^TMP(1000, "SDAMA201", "GETAPPT", 2, 12) = "I"
^TMP(1000, "SDAMA201", "GETAPPT", 3, 1) = 3020115.09
^TMP(1000, "SDAMA201", "GETAPPT", 3, 2) = 150^BOB'S CLINIC
^TMP(1000, "SDAMA201", "GETAPPT", 3, 3) = "R"
^TMP(1000, "SDAMA201", "GETAPPT", 3, 6) = "WHEELCHAIR REQUESTED"
^TMP(1000, "SDAMA201", "GETAPPT", 3, 12) = "I"
```

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2) Retrieve inpatient and outpatient appointment date/time, clinic ID, appointment status, and comments for patient 99 from 1/1/02 at 8am through 1/31/02 for scheduled/kept appointments:

```
>D GETAPPT^SDAMA201(99, "1;2;3;6", "R", 3020101.08, 3020131,.SDRESULT)
>ZW SDRESULT=2
>ZW ^TMP($J, "SDAMA201", "GETAPPT")
^TMP(1000, "SDAMA201", "GETAPPT", 1, 1)=3020101.10
^TMP(1000, "SDAMA201", "GETAPPT", 1, 2)=130^TOM'S CLINIC
^TMP(1000, "SDAMA201", "GETAPPT", 1, 3)="R"
^TMP(1000, "SDAMA201", "GETAPPT", 1, 6)="PATIENT REQUESTS A RIDE HOME"
^TMP(1000, "SDAMA201", "GETAPPT", 2, 1)=3020115.09
^TMP(1000, "SDAMA201", "GETAPPT", 2, 2)= 150^BOB'S CLINIC
^TMP(1000, "SDAMA201", "GETAPPT", 2, 3)="R"
```

### **13.4 Application Programmer Interface - NEXTAPPT**

Name: NEXTAPPT ; Retrieve Next Appointment Data for a Patient ID

Declaration: \$\$NEXTAPPT^SDAMA201(SDIEN,SDFIELDS,

SDAPSTAT, SDIOSTAT)

Description: This API returns requested next appointment information for a patient ID and should be called using an EXTRINSIC call. The "next" appointment is defined as the next appointment on file after the current date/time. To use this API, subscribe to Integration Agreement #3859.

Arguments: SDIENPatient IEN (required)

SDFIELDS Field List (optional, each field number separated by a semi-colon)

SDAPSTAT Appointment Status Filter (optional, each value separated by a semi-colon. See "Filters" for default and valid values)

SDIOSTAT Patient Status Filter (optional, see "Filters" for default and valid values)

Field List: A null value in this parameter will result in NO appointment data fields being returned. See "Data Fields" for a list of the field numbers and corresponding data available in this API.

Return Values: This API will return "-1" if an error occurred, "0" if no future appointment is found, or "1" if a future appointment was found.

If no future appointment is found, then the ^TMP(\$J,"SDAMA201","NEXTAPPT",y) array will not be generated.

If the user enters an optional field list and a future appointment is found, the data for the next appointment will be returned in  $^{TMP}(J, "SDAMA201", "NEXTAPPT", y) =$  field y data where 'y' is the field number requested.

If an error occurs, the error codes and messages will be returned in ^TMP(\$J,"SDAMA201","NEXTAPPT","ERROR",error code) = error message. See "Error Codes" for a list of error codes and messages.

Other: When processing has completed, kill the temporary array:

```
^TMP(\$J, "SDAMA201", "NEXTAPPT")
```

### NEXTAPPT EXAMPLES

1) See if patient 321 has a future appointment (inpatient or outpatient).

I \$\$NEXTAPPT^SDAMA201(321) D

insert code here to continue processing as needed

No appointment data is returned from the above example because no fields were passed in.

2) If patient 99 has a future scheduled inpatient appointment, retrieve appointment date/time, clinic ID, appointment status, and patient status:

```
I $$NEXTAPPT^SDAMA201(99, "1;2;3;12", "R", "I") D
S NEXTDATE=$G(^TMP($J, "SDAMA201", "NEXTAPPT",1))
S CLINIEN=+$G(^TMP($J, "SDAMA201", "NEXTAPPT",2))
S APPTSTAT=$G(^TMP($J, "SDAMA201", "NEXTAPPT",3))
S PATSTATS=$G(^TMP($J, "SDAMA201", "NEXTAPPT",12))
>ZW ^TMP($J, "SDAMA201", "NEXTAPPT")
^TMP(1000, "SDAMA201", "NEXTAPPT",2)=130^SAM'S CLINIC
^TMP(1000, "SDAMA201", "NEXTAPPT",3)=R
^TMP(1000, "SDAMA201", "NEXTAPPT",12)="I"
```

3) If patient 111 has a future appointment (scheduled, cancelled, or no-show), retrieve appointment date/time, clinic ID, appointment status, and patient status:

```
I $$NEXTAPPT^SDAMA201(111,"1;2;3;12") D
S NEXTDATE=$G(^TMP($J,"SDAMA201","NEXTAPPT",1))
S CLINIEN=+$G(^TMP($J,"SDAMA201","NEXTAPPT",2))
S APPTSTAT=$G(^TMP($J,"SDAMA201","NEXTAPPT",3))
S PATSTATS=$G(^TMP($J,"SDAMA201","NEXTAPPT",12))
>ZW ^TMP($J,"SDAMA201","NEXTAPPT")
^TMP(1000,"SDAMA201","NEXTAPPT",2)=130^SAM'S CLINIC
^TMP(1000,"SDAMA201","NEXTAPPT",3)=C
^TMP(1000,"SDAMA201","NEXTAPPT",12)=""
```

Note that a cancelled appointment was returned above because the appointment status filter was undefined and it was the next appointment on the file. The patient status was returned with a value of null.

### **13.5 Application Programmer Interface - GETPLIST**

Name: GETPLIST ; Retrieve Appointment Data for a Clinic ID Declaration: GETPLIST^SDAMA202(SDIEN,SDFIELDS,SDAPSTAT, SDSTART,SDEND,SDRESULT, SDIOSTAT)

Description: Returns requested clinic appointment information for a specific clinic ID. To use this API, subscribe to Integration Agreement #3869. Note: This API will return appointment information for 'regular', 'no-show', and 'no action taken' appointments only; while the appointment data is located in VistA, cancelled appointments will not be returned because they are not retained on the Hospital Location sub-files (44.001, 44.003).

Arguments: **SDIEN** Clinic IEN (required) SDFIELDS Field List (optional, each field number separated by a semi-colon) Appointment Status Filter (optional, each value SDAPSTAT separated by a semi-colon. See "Filters" for default and valid values) **SDSTART** Start Date/time (optional, internal FileMan format) SDEND End Date/time (optional, internal FileMan format) SDRESULT Local variable to hold returned appointment count (optional, passed by reference) SDIOSTAT Patient Status Filter (optional, see "Filters" for default and valid values) Field List: A null value in this parameter will result in ALL appointment data fields being returned. See "Data Fields" for a list of the field numbers and corresponding data available in this API.

Return Values: If no errors occur and appointments are found, SDRESULT will contain the appointment count and the data will be returned in  $^{TMP}(J, "SDAMA202", "GETPLIST", x, y) =$  field y data where 'x' is an incremental appointment count (starting with 1) and 'y' is the field number requested.

If no errors occur and no appointments are found, then SDRESULT will contain a value of 0 and the ^TMP(\$J,"SDAMA202","GETPLIST",x,y) array will not be generated.

If an error occurs, SDRESULT will be –1 and the error codes and messages will be returned in ^TMP(\$J,"SDAMA202","GETPLIST","ERROR",error code) = error message. See "Error Codes" for a list of error codes and messages.

Other: When processing has completed, kill the temporary array:

```
^TMP($J,"SDAMA202","GETPLIST")
```

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### GETPLIST EXAMPLE

Retrieve inpatient and outpatient appointment date/time, patient ID, and length of appointment for clinic 100 for 1/1/02 from 8am to 10am:

```
>D GETPLIST^SDAMA202(100,"1;4;5",,3020101.08,3020101.1,.SDRESULT)
>ZW SDRESULT
SDRESULT=4
>ZW ^TMP($J,"SDAMA202","GETPLIST")
^TMP(1000, "SDAMA202", "GETPLIST", 1, 1)=3020101.08
^TMP(1000, "SDAMA202", "GETPLIST", 1, 4)=4564^JONES, CANDACE
^TMP(1000, "SDAMA202", "GETPLIST", 1, 5)=60
^TMP(1000, "SDAMA202", "GETPLIST", 2,1)=3020101.09
^TMP(1000, "SDAMA202", "GETPLIST", 2, 4)=9007^HEADRICK, ANITA
^TMP(1000, "SDAMA202", "GETPLIST", 2, 5)=30
^TMP(1000, "SDAMA202", "GETPLIST", 3, 1)=3020101.093
^TMP(1000, "SDAMA202", "GETPLIST", 3, 4)=24389^SIMPSON, LEANORA
^TMP(1000, "SDAMA202", "GETPLIST", 3, 5)=30
^TMP(1000, "SDAMA202", "GETPLIST", 4, 1) = 3020101.1
^TMP(1000, "SDAMA202", "GETPLIST",4,4)=40374^SMITH, SAMUEL
^TMP(1000, "SDAMA202", "GETPLIST", 4, 5) = 30
```

### **13.6 Application Programmer Interface - PATAPPT**

Name: PATAPPT ; Check for existence of any appointment for a patient Declaration: PATAPPT^SDAMA204(SDDFN) Description: Returns 1, 0, -1 according to the existence of appointment(s) for a patient ID. To use this API, please subscribe to Integration Agreement #4216. Argument: Patient IEN (required) **SDDFN Return Values:** Patient scheduling record(s) Value Returned 1 Appointment(s) on file No Appointment(s) on file 0

Depending on the existence of appointment(s) for a specific patient ID, an extrinsic value will be returned according to the Return Values table listed above.

1

Error -

If an error occurs, a - 1 will be returned, and a node with error information will be created.

The format will be:

W \$\$PATAPPT^SDAMA204(0) -1

The error information will reside in the following node:

```
ZW ^TMP(634,"SDAMA204","PATAPPT","ERROR")
```

^TMP(634, "SDAMA204", "PATAPPT", "ERROR", 114) = "INVALID PATIENT ID"

See "Error Codes" for a list of error codes and messages.

This function does not remove the ^TMP node created when an error occurs. It is the calling program's responsibility to delete the node.

### PATAPPT EXAMPLES

The following examples show the initialization of variable X with the value from the function \$PATAPPT^SDAMA204(SDDFN):

```
1) Patient Appointments Exists
```

```
Cache>S X=$$PATAPPT^SDAMA204(123)
Cache>W X
1
```

```
2) No Patient Appointments Exists
Cache>S X=$$PATAPPT^SDAMA204(11)
Cache>W X
0
```

```
3) Invalid Patient ID
Cache>S X=$$PATAPPT^SDAMA204(0)
Cache>W X
-1
Cache>ZW ^TMP($J,"SDAMA204","PATAPPT","ERROR")
^TMP(659,"SDAMA204","PATAPPT","ERROR",114)="INVALID PATIENT ID"
```

PIMS

PIMS

### **ERROR CODES**

Error Codes and Associated Messages

- 101 DATABASE IS UNAVAILABLE
- 102 PATIENT ID IS REQUIRED
- 103 INVALID FIELD LIST
- 104 CLINIC ID IS REQUIRED
- 105 INVALID START DATE
- 106 INVALID END DATE
- 108 FACILITY ID IS REQUIRED
- 109 INVALID APPOINTMENT STATUS FILTER
- 110 ID MUST BE NUMERIC
- 111 START DATE CAN'T BE AFTER END DATE
- 112 INVALID PATIENT STATUS FILTER
- 113 APPT STATUS AND PATIENT STATUS FILTER COMBINATION UNSUPPORTED IN VISTA
- 114 INVALID PATIENT ID

# 14 Data Fields

# 14.1 Available Data Fields

#### Table 38: Available Data Fields

ID	FIELD NAME	DATA TYPE	Format or Valid Values	Description	Examples of Returned Data
1	APPOINTM ENT DATE/TIME	DATE/TIME	YYYMMDD@HH MM	The scheduled Appointment Date/Time	3021215@113 3021201@0815
2	CLINIC ID and NAME	POINTER and TEXT	ID^name	Clinic ID and name	150^CARDIOLO GY 32^TOM'S CLINIC
3	APPOINTM ENT STATUS	ALPHA	N (No-Show) C (Cancelled) R (Scheduled/Kept) NT (No Action Taken)	The status of the appointment. N for no-show appointment, C for cancelled appointment (cancelled for ANY reason), NT for no action taken, and R for a future appointment or a past kept appointment	N C R NT
4	PATIENT ID and NAME	POINTER and TEXT	ID^name	Patient ID and name	34877^JONES,B OB 455^SCHILSON, BRIAN
5	LENGTH OF APPOINTM ENT	NUMERIC	NNN	The scheduled length of appointment, in minutes	20 60
6	COMMENT S	TEXT	free text	Any comments associated with the appointment	PATIENT NEEDS WHEELCHAIR

ID	FIELD NAME	DATA TYPE	Format or Valid Values	Description	Examples of Returned Data
7	OVERBOOK	TEXT	Y or N	"Y" if appointment is an overbook else "N"	Y N
8	ELIGIBILITY OF VISIT ID and NAME	POINTER and TEXT	ID^name	Eligibility code and name associated with the appointment	2^AID & ATTENDANCE 7^ALLIED VETERAN 13^COLLATERA L OF VET.
9	CHECK-IN DATE/TIME	DATE/TIME	YYYMMDD@HH MM	Date/time the patient checked in for the appointment	3021215@113
1 0	APPOINTM ENT TYPE ID and NAME	POINTER and TEXT	ID^name	Type of appointment ID and name	1^COMPENSATI ON & PENSION 3^ORGAN DONORS 7^COLLATERAL OF VET.
1 1	CHECK- OUT DATE/TIME	DATE/TIME	YYYMMDD@HH MM	Date/time the patient checked out of the appointment	3021215@113
1 2	PATIENT STATUS	TEXT	l O null	For future, scheduled appointments, the current status of the patient. For past, kept appointments, the status at the time of the appointment. For cancelled and no- show appointments, this will be null	   0   ""

# 14.2 FILTERS

# 14.2.1 Valid Appointment Status Filters

The SDAPSTAT filter parameter can be used if you wish to screen on appointment status. If this parameter contains a value or set of values, then those appointments will be returned in the resulting array set. Request more than 1 value in the filter by separating them with a semi-colon (i.e. SDAPSTAT="R;NT").

A null or undefined value will result in all being returned.

Appt Status Filter value	Appointment Status Value(s) Returned
R	R (scheduled/kept)
N	N (no-show)
С	C (cancelled)
NT	NT (no action taken)
Null (default)	ALL appointment status values will be returned: R (scheduled/kept) N (no-show) C (cancelled) NT (no action taken)

Table 39: Valid Appointment Status Filters

# 14.2.2 Valid Patient Status Filters

The SDIOSTAT filter parameter can be used if you wish to retrieve only inpatient records or only outpatient records. A null or undefined value will result in both being returned.

Table 40: Valid Patient Status Filters

Patient Status Filter value	Description
1	Inpatient
0	Outpatient
Null (default)	Both will be returned (inpatient and outpatient)

### 14.2.3 Valid Patient Status and Appointment Status Filter Combinations

Due to the design of VistA, the patient status (new field #12) of appointments that are cancelled, no-show, or no action taken, will not be available. If the patient status field is requested, a null value will be returned in the ^TMP output global for this field. Patient status is determined by analyzing the value of the STATUS field (#3) on the Patient subfile (2.98).

Inpatient appointments contain an "I" in this field and are identified only if the field has not been changed (cancelled, etc.). Therefore, if the user wishes to specifically request only inpatient appointments (using the Patient Status filter = "I"), then the Appointment Status filter must be set to "R".

Any other value in the Appointment Status filter (including null or undefined) will cause an error (#113) to be generated and returned in the ^TMP global. The same is true when specifically requesting outpatient appointments. To retrieve No-Show, Cancelled, or No Action Taken appointments, the Patient Status filter must be left null or undefined. See table below for results of combinations of these two filters.

Patient Status Filter	Appointment Status Filter	Valid/Invalid	Patient Status value in ^TMP (if requested)
l or O	R	Valid	I for inpatient appointments, O for outpatient appointments
l or O	N	Invalid	N/A
l or O	С	Invalid	N/A
I or O	NT	Invalid	N/A
l or O	Any combination of R, N, C, and NT	Invalid	N/A
I or O	Null/Undefined	Invalid	N/A
Null/Undefined	R	Valid	I for inpatient appointments; O for outpatient appointments
Null/Undefined	N	Valid	Null
Null/Undefined	С	Valid	Null
Null/Undefined	NT	Valid	Null
Null/Undefined	Null/Undefined, or any combination of R, N, C, and NT	Valid	I or O for scheduled/kept inpatient and outpatient appointments; null for cancelled, no- show, and no action taken appointments

Table 41:	Status	Filter	Combinations

Patient Status	filter key	App
----------------	------------	-----

I = Inpatient	R = scheduled/kept appointments
O = Outpatient	N = all no-show appointments
	C = all cancelled appointments
	NT = no action taken appointments

### 14.3 Application Programmer Interface - SDIMO

Name : SDIMO; Inpatient Medications for Outpatients

Declaration: \$\$\$DIMO^\$DAMA203(\$DCLIEN,\$DDFN)

Description: This API returns encounter date/time for a clinic IEN and patient DFN. If the patient does not have an encounter in the specified clinic today (or yesterday if current time is before 6am), then the patient's scheduled appointment date/time for that clinic, today or in the future (or yesterday if current time is before 6am), is returned. This API should be called using an EXTRINSIC call.

Arguments:	SDCLIEN	Clinic IEN (required)	
	SDDFN	Patient DFN (required)	

Table 42: \$	SDIMO	API	Return	Values

Return Value	Meaning
1	Patient has at least one encounter today or one scheduled appointment today or in the future in the authorized clinic
0	Patient does not have an encounter today or an appointment today or in the future in the authorized clinic
-1	Clinic is not authorized, clinic is inactive, or clinic IEN is null
-2	Patient DFN is null
-3	Scheduling Database is unavailable
SDIMO(1)	Encounter date/time or appointment date/time

If a 1 is returned, then the variable SDIMO(1) will contain the encounter or appointment date/time. If something other than a 1 is returned, the variable SDIMO(1) will not be created.

Other: When processing has completed, the variable SDIMO(1) needs to be killed.

#### **SDIMO EXAMPLES:**

1) Is patient 123 authorized to receive inpatient medication at clinic 800?

I \$\$SDIMO^SDAMA203(800,123) D

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```
S APPTDT=$G(SDIMO(1))
K SDIMO(1)
;continue processing as needed
```

2) Example of handling an error:

```
S SDRESULT=$$SDIMO^SDAMA203(800,123)
I SDRESULT<1 D
I SDRESULT=-1 D
process clinic error as needed
Configuring Bar Code Label Printers</pre>
```

### 14.4 Configuring Bar Code Label Printers for Print Patient Label Option

The Veteran Identification Card (VIC) provided by the VIC Replacement project does not support embossing of protected health information. Instead, a new Print Patient Label [DG PRINT PATIENT LABEL] option will allow labels to be printed with the patient's protected health information.

The labels will contain the patient's name, social security number, and date of birth. An optional fourth line contains the patient's inpatient location (ward and room#).

Example Label

1	ſ	
	Name:	PIMSPATIENT, ONE
	SSN:	000-88-7654
	DOB:	01/10/1940
		SURG 32-3

The labels may be affixed to medical record forms in lieu of using the current embossed cards to imprint this information.

### **EXAMPLE LABEL**

The Print Patient Label [DG PRINT PATIENT LABEL] option was exported with the Veteran ID Card (VIC) Replacement patch (DG\*5.3\*571). This option was placed on the ADT Outputs Menu [DG OUTPUTS MENU] option.

This option supports plain text printing to dot matrix and laser printers by prompting the user for the number of lines that the label stock can contain. In addition, bar code label printers, such as Zebra and Intermec, are supported on systems that have installed the Kernel Support for Bar Code Printers patch (XU\*8\*205).

#### 14.4.1 Hardware Setup

The printer must be physically connected to the network and then defined in the DEVICE (#3.5) and TERMINAL TYPE (#3.2) files.

#### 14.4.2 Software Setup

Bar code label printers, such as the Zebra and Intermec printers, require control codes to be defined in the CONTROL CODES subfile (#3.2055) of the TERMINAL TYPE file (#3.2).

The patient label print routine (DGPLBL) checks for the existence of the control codes before attempting to execute. Presently, the patient label print routine (DGPLBL) uses eight control codes. DBIA #3435 allows direct MUMPS read access to the CONTROL CODES subfile (#3.2055) of the TERMINAL TYPE file (#3.2).

It is not required that all control codes be defined - just build the necessary control codes for the selected printer.

### 14.5 Control Code Overview

These are the control codes that are currently used by the patient label print routine (DGPLBL). In order for the routine to work correctly, these control codes must be entered through FileMan in the CONTROL CODES subfile (#3.2055) of the TERMINAL TYPE file (#3.2) using the names listed below.

#### CODE DESCRIPTION

- FI Format Initialization
- FE Format End
- SL Start of Label
- EL End of Label
- ST Start of Text
- ET End of Text
- STF Start of Text Field
- ETF End of Text Field

### 14.5.1 Patient Label Print Routine Control Code Use

The following pseudo-code listing shows the flow and the points at which each of the control codes are used. It is not required that all control codes be defined - just build the necessary control codes for the selected printer.

a. Label print routine invoked.

b. Control codes loaded into local array DGIOCC. Variable DGIOCC is defined to indicate whether or not control codes exist.

- c. Format Initialization.
- d. For each label printed:
  - Start of Label
  - Start of Text\*
  - Start of Text Field\*
  - Text Information\*
  - End of Text Field\*
  - End of Text\*
  - End of Label.
- e. Format End.
- \* indicates items that may be executed repeatedly

### 14.5.2 Label Printer Setup Examples

The following are examples of the control codes setup in the CONTROL CODES subfile (#3.2055) of the TERMINAL TYPE file (#3.2) for the Zebra and Intermec label printers.

These printers were used during the development process, and the examples are provided to guide the user in the control code setup. The examples provided are based on a  $1 \frac{1}{2}$  by  $3 \frac{1}{2}$  inch label.

### 14.5.3 Zebra Label Printer

Example: Control Codes Setup for Horizontal Labels

```
NUMBER: 1
ABBREVIATION: FI
FULL NAME: FORMAT INITIALIZATION
CONTROL CODE: W "^XA", !, "^LH0, 0^FS", !
NUMBER: 2
ABBREVIATION: SL
FULL NAME: START LABEL
CONTROL CODE: W "^XA", ! S DGY=30, DGX=10
NUMBER: 3
ABBREVIATION: ST
FULL NAME: START TEXT
CONTROL CODE: W "^FO", DGX, ", ", DGY, "^A0N, 30, 30" S DGY=DGY+40
NUMBER: 4
ABBREVIATION: STF
FULL NAME: START TEXT FIELD
CONTROL CODE: W "^FD"
NUMBER: 5
ABBREVIATION: ETF
FULL NAME: END TEXT FIELD
CONTROL CODE: W "^FS",!
NUMBER: 6
ABBREVIATION: EL
FULL NAME: END LABEL
CONTROL CODE: W "^XZ",!
```

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#### **EXAMPLE 2: CONTROL CODES SETUP FOR VERTICAL LABELS**

```
NUMBER: 1
ABBREVIATION: FI
FULL NAME: FORMAT INITIALIZATION
CONTROL CODE: W "^XA",!,"^LH0,0^FS",!
NUMBER: 2
ABBREVIATION: SL
FULL NAME: START LABEL
CONTROL CODE: W "^XA", ! S DGY=50, DGX=190
NUMBER: 3
ABBREVIATION: ST
FULL NAME: START TEXT
CONTROL CODE: W "^FO", DGX, ", ", DGY, "^AOR, 30, 20" S DGX=DGX-40
NUMBER: 4
ABBREVIATION: STF
FULL NAME: START TEXT FIELD
CONTROL CODE: W "^FD"
NUMBER: 5
ABBREVIATION: ETF
FULL NAME: END TEXT FIELD
CONTROL CODE: W "^FS",!
NUMBER: 6
ABBREVIATION: EL
FULL NAME: END LABEL
CONTROL CODE: W "^XZ",!
```

### 14.6 Intermec Label Printer

Intermec label printers require that a label format be sent to the printer prior to sending any data to print. The label format is defined in an M routine, which is then defined in the OPEN EXECUTE field (#6) of the TERMINAL TYPE file (#3.2).

Two sample formats are provided with patch DG\*5.3\*571 in routine DGPLBL1.

The entry point HINTERM^DGPLBL1 creates a horizontal format label and the entry point VINTERM^DGPLBL1 creates a vertical format label. The following setup examples show the OPEN EXECUTE (#6) and CONTROL CODES (#55) field values that were used in the development process and are provided to guide the user in this setup.

The examples are based on a  $1 \frac{1}{2}$  by  $3 \frac{1}{2}$  inch label.

Example: Control Codes Setup for Horizontal Labels

```
OPEN EXECUTE: D HINTERM^DGPLBL1
NUMBER: 1
ABBREVIATION: FI
FULL NAME: FORMAT INITIALIZATION
CONTROL CODE: W "<STX>R;<ETX>",!
NUMBER: 2
ABBREVIATION: SL
FULL NAME: START LABEL
CONTROL CODE: W "<STX><ESC>E2<ETX>",!,"<STX><CAN><ETX>",!
NUMBER: 3
ABBREVIATION: ST
FULL NAME: START TEXT
CONTROL CODE: W "<STX>"
NUMBER: 4
ABBREVIATION: ET
FULL NAME: END TEXT
CONTROL CODE: W "<CR><ETX>",!
NUMBER: 5
ABBREVIATION: EL
FULL NAME: END LABEL
CONTROL CODE: W "<STX><ETB><ETX>",!
EXAMPLE: CONTROL CODES SETUP FOR VERTICAL LABELS
OPEN EXECUTE: D VINTERM^DGPLBL1
NUMBER: 1
```

PIMS

```
ABBREVIATION: FI
FULL NAME: FORMAT INITIALIZATION
CONTROL CODE: W "<STX>R;<ETX>",!
NUMBER: 2
ABBREVIATION: SL
FULL NAME: START LABEL
CONTROL CODE: W "<STX><ESC>E2<ETX>",!,"<STX><CAN><ETX>",!
NUMBER: 3
ABBREVIATION: ST
FULL NAME: START TEXT
CONTROL CODE: W "<STX>"
NUMBER: 4
ABBREVIATION: ET
FULL NAME: END TEXT
CONTROL CODE: W "<CR><ETX>",!
NUMBER: 5
ABBREVIATION: EL
FULL NAME: END LABEL
CONTROL CODE: W "<STX><ETB><ETX>",!
```

# 15 HL7 Interface Specification for Transmission of Ambulatory Care Data

This interface specification specifies the information needed for Ambulatory Care data reporting. This data exchange will be triggered by specific outpatient events that relate to workload credit in VISTA. The basic communication protocol will be addressed, as well as the information that will be made available and how it will be obtained.

This application uses an abstract message approach and encoding rules specified by HL7. HL7 is used for communicating data associated with various events which occur in health care environments. For example, when a check out occurs in VISTA, the event will trigger an update patient information message. This message is an unsolicited transaction to all external systems interfacing with VISTA.

The formats of these messages conform to the Version 2.3 HL7 Interface Standards where applicable. HL7 custom message formats ("Z" segments) are used only when necessary.

# **15.1 Assumptions**

Assumptions have been made at the beginning of this project in order to help define the scope and meet the initial needs in interfacing with the Austin Information Technology Center (AITC), (formerly the Austin Automation Center (AAC)).

# 15.1.1 Message Content

The data sent in the HL7 messages will be limited to the information that can be processed by the AITC, with the exception of the PID and ZPD segments, which will be populated using the nationally supported VISTA call. The data sent will also be limited to what is available in VISTA.

In order to capture the most information, specific outpatient events will generate messages to the AITC systems. This is not intended to cover all possible outpatient events, only those events which may result in the capture of workload information and data needed to update the National Patient Care Database (NPCDB).

The mode for capturing data for outpatient events was chosen to capture as much of the data as possible. (See Data Capture and Transmission (1.2.2) for further information on the mode for capturing the outpatient events.)

# 15.1.2 Data Capture and Transmission

When AICS, PIMS, and PCE options or calls are used to update specific outpatient encounter data in VISTA, these events and changes will be captured. Any changes made to the VISTA database in non-standard ways, such as a direct global set by an application or by MUMPS code, will not be captured.

# 15.1.3 Background Messages

A nightly background job will be sending HL7 messages for each outpatient encounter event for the day.

### 15.1.4 Batch Messages & Acknowledgements

Batch messages will be used to transmit the outpatient encounter events.

Each batch message sent will be acknowledged at the application level. The batch acknowledgment will contain acknowledgment messages only for those messages containing errors.

Using this mode, it is possible that an empty batch acknowledgment will be sent. This will happen only when all messages in the batch being acknowledged were accepted.

# 15.1.5 VA MailMan Lower Level Protocol

HL7 V. 1.6 of the VA MailMan lower level protocol (LLP) will be used. This version of the VA MailMan LLP differs from HL7 V. 1.5 in that a blank line is placed between each segment in the message [denoting a carriage return].

# **15.2HL7 Control Segments**

This section defines the HL7 control segments supported by VistA. The messages are presented separately and defined by category. Segments are also described. The messages are presented in the following categories:

- Message Control
- Unsolicited Transactions from VistA (Section 3)

# 15.3 Message Definitions

From the VISTA perspective, all incoming or outgoing messages are handled or generated based on an event.

In this section, and the following sections, these elements will be defined for each message:

- The trigger events
- The message event code
- A list of segments used in the message
- A list of fields for each segment in the message

Each message is composed of segments. Segments contain logical groupings of data. Segments may be optional or repeatable. A [] indicates the segment is optional, the {} indicates the segment is repeatable.

For each message category there will be a list of HL7 standard segments or "Z" segments used for the message.

### **15.4 Segment Table Definitions**

For each segment, the data elements are described in table format. The table includes the sequence number (SEQ), maximum length (LEN), data type (DT), required or optional (R/O), repeatable (RP/#), the table number (TBL #), the element name, and the VISTA description.

Each segment is described in the following sections.

### **15.5 Message Control Segments**

This section describes the message control segments which are contained in message types described in this document. These are generic descriptions.

Any time any of the segments described in this section are included in a message in this document, the VISTA descriptions and mappings will be as specified here, unless otherwise specified in that section.

# 15.5.1 MSH - MESSAGE HEADER SEGMENTS

The sequences are as follows:

SEQ	LEN	DT	R/O	RP/ #	TBL #	ELEMENT NAME	VISTA DESCRIPTION
1	1	ST	R			Field Separator	Recommended value is ^ (caret)
2	4	ST	R			Encoding Characters	Recommended delimiter values: Component = ~ (tilde) Repeat =   (bar) Escape = \ (back slash) Subcomponent = & (ampersand)
3	15	ST				Sending Application	When originating from facility: AMBCARE-DH441 When originating from NPCDB NPCD-AAC*
4	20	ST				Sending Facility	When originating from facility: Station's facility number When originating from NPCDB: 200
5	30	ST				Receiving Application	Not used
6	30	ST				Receiving Facility	Not used

#### Table 43: Message Header Segments

SEQ	LEN	DT	R/O	RP/ #	TBL #	ELEMENT NAME	VISTA DESCRIPTION
7	26	TS				Date/Time Of Message	Date and time message was created
8	40	ST				Security	Not used
9	7	СМ	R		0076 0003	Message Type	2 Components Component 1: Refer to Table 0076 Component 2: Refer to Table 0003
10	20	ST	R			Message Control ID	Automatically generated by VISTA HL7 Package
11	1	ID	R		0103	Processing ID	P (production)
12	8	ID	R		0104	Version ID	2.3 (Version 2.3)
13	15	NM				Sequence Number	Not used
14	180	ST				Continuation Pointer	Not used
15	2	ID			0155	Accept Acknowledgmen t Type	NE (never acknowledge)
16	2	ID			0155	Application Acknowledgmen t Type	AL (always acknowledge)
17	2	ID				Country Code	Not used
*AAC stands f	or Austin	Automa	tion Cen	ter. Th	e name	of that facility has l	been changed to Austin

\*AAC stands for Austin Automation Center. The name of that facility has been changed to A Information Technology Center.

# 15.5.2 BHS - Batch Header Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	1	ST	R			Batch Field Separator	Recommended value is ^ (caret)
2	4	ST	R			Characters	Recommended delimiter values: Component = ~ (tilde) Repeat =   (bar)

### Table 44: Batch Header Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
							Escape = \ (back slash) Subcomponent = & (ampersand)
3	15	ST				Batch Sending Application	When originating from facility: AMBCARE-DH142 When originating from NPCDB: NPCD-AAC*
4	20	ST				Batch Sending Facility	When originating from facility: Station's facility number When originating from NPCDB: 200
5	15	ST				Batch Receiving Application	When originating from facility: NPCD-AAC When originating from NPCDB: AMBCARE-DH142
6	20	ST				Batch Receiving Facility	When originating from facility: 200 When originating from NPCDB: Station's facility number
7	26	TS				Batch Creation Date/Time	Date and time batch message was created
8	40	ST				Batch Security	Not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
	20	ST				Batch Name/ID/Type	4 Components <sup>2</sup> : Component 1: Not used Component 2: P Component 3: ADT Z00 Component 4: 2.3
10	80	ST				Batch Comment	2 Components <sup>3</sup> : Component 1: <i>Refer to Table 0008</i> Component 2: Text Message
11	20	ST				Batch Control ID	Automatically generated by V <i>IST</i> A HL7 Package
12	20	ST				Reference Batch Control ID	Batch Control ID of batch message being acknowledged

The VISTA HL7 package has placed special meaning on this field.

\*AAC stands for Austin Automation Center. The name of that facility has been changed to Austin Information Technology Center.

# 15.5.3 BTS - Batch Trailer Segment

**BTS - BATCH TRAILER SEGMENT** 

<sup>&</sup>lt;sup>3</sup> The **VISTA** HL7 package has placed special meaning on this field. Note that this field is only used with batch acknowledgments.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	10	ST			0093	0	Number of messages within batch
2	80	ST			0094	Batch Comment	Not used
3	100	СМ		Y	0095	Batch Totals	Not used

### 15.5.4 MSA - MESSAGE ACKNOWLEDGMENT SEGMENT

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	2	ID	R		8000	Acknowledgment Code	Refer to Table 0008
2	20	ST	R			Message Control ID	Message Control ID of message being acknowledged
3	80	ST			NPCD 001	Text Message	Repetitive list of error codes denoting why the message was rejected <sup>4</sup>
4	15	NM				Expected Sequence Number	Not used
5	1	ID			0102	Delayed Acknowledgment Type	Not used
6	100	CE				Error Condition	Not used

Table 46: Message Acknowledgement Segment

# 15.5.5 EVN - EVENT TYPE SEGMENT

 Table 47: Event Type Segment

SEQ		LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1		3	ID	R		0003	Event Type Code	Refer to Table 0003

<sup>&</sup>lt;sup>4</sup> Special meaning placed on this field to support multiple rejection reasons by the National Patient Care Database (NPCDB).

SEQ		LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
2		26	TS	R			Date/Time of Event	Date/Time Event Occurred
3		26	TS				Date/Time Planned Event	Not used
4		3	ID			0062	Event Reason Code	Not used
5		60	CN			0188	Operator ID	Not used

### **15.6 PID - Patient Identification Segment**

Please refer to "Section 3.15.PID-Patient Identification Segment" in the "MPI/PD HL7 Interface Specification" manual found on the VistA Documentation Library (VDL) at the following address.

http://www.va.gov/vdl/application.asp?appid=16

### 15.6.1 PD1 - Patient Additional Demographic Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	2	IS	0	Y	0223	LIVING DEPENDENCY	NOT USED
2	2	IS	0		0220	LIVING ARRANGEMENT	NOT USED
3	90	XON	0	Y		PATIENT PRIMARY FACILITY <sup>5</sup>	<u>8 COMPONENTS</u> FACILITY NAME NOT USED FACILITY NUMBER NOT USED NOT USED NOT USED NOT USED NOT USED

Table 48: Patient Additional Demographic Segment

<sup>&</sup>lt;sup>5</sup> This element is only available from CIRN enabled facilities.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
4	90	XCN	0	Y		PATIENT PRIMARY CARE PROVIDER NAME & ID NO.	14 COMPONENTS 2 SUB-COMPONENTS POINTER TO ENTRY IN NEW PERSON FILE (#200) FACILITY NUMBER NOT USED NOT USED NOT USED NOT USED NOT USED NOT USED THIS WILL ALWAYS BE VA200 (NEW PERSON FILE) NOT USED NOT USED
5	2	IS	0		0231	STUDENT INDICATOR	NOT USED
6	2	IS	0		0295	HANDICAP	NOT USED
7	2	IS	0		0315	LIVING WILL	NOT USED
8	2	IS	0		0316	ORGAN DONOR	NOT USED
9	2	ID	0		0136	SEPARATE BILL	NOT USED
10	2	СХ	0	Y		DUPLICATE PATIENT	NOT USED
11	1	CE	0		0125	PUBLICITY INDICATOR	NOT USED
12	1	ID	0		01293	PROTECTION INDICATOR	NOT USED

# 15.6.2 PV1 - Patient Visit Segment

### Table 49: Patient Visit Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI				Set ID - Patient Visit	Sequential Number

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
2	1	ID	R		0004	Patient Class	This will always be O (outpatient)
3	12	СМ				Assigned Patient Location	Not used
4	4	ID			0007	Admission Type	Refer to Table SD009 (Purpose of Visit)
5	20	ST				Preadmit Number Not used	
6	12	СМ				Prior Patient Location	Not used
7	60	CN			0010	Attending Doctor	Not used
8	60	CN			0010	Referring Doctor	Not used
9	60	CN		Y	0010	Consulting Doctor	Not used
10	3	ID			0069	Hospital Service	Not used
11	12	СМ				Temporary Location	Not used
12	2	ID			0087	Preadmit Test Indicator	Not used
13	2	ID			0092	Readmission Indicator	Not used
14	3	ID			0023	Admit Source	Refer to Table 0023 (Location of Visit)
15	2	ID		Y	0009	Ambulatory Status	Not used
16	2	ID			0099	VIP Indicator	Not used
17	60	CN			0010	Admitting Doctor	Not used
18	2	ID			0018	Patient Type	Not used
19	15	NM				Visit Number	Pointer to entry in OUTPATIENT ENCOUNTER file (#409.68)
20	50	СМ		Y	0064	Financial Class	Not used
21	2	ID			0032	Charge Price Indicator	Not used
22	2	ID			0045	Courtesy Code	Not used
23	2	ID			0046	Credit Rating	Not used
24	2	ID		Y	0044	Contract Code	Not used
25	8	DT		Y		Contract Effective Date	Not used
26	12	NM		Y		Contract Amount	Not used
27	3	NM		Y		Contract Period	Not used
28	2	ID			0073	Interest Code	Not used

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION	
29	1	ID			0110	Transfer to Bad Debt Code	Not used	
30	8	DT				Transfer to Bad Debt Date	Not used	
31	10	ID			0021	Bad Debt Agency Code	Not used	
32	12	NM				Bad Debt Transfer Amount	Not used	
33	12	NM				Bad Debt Recovery Amount	Not used	
34	1	ID			0111	Delete Account Indicator	Not used	
35	8	DT				Delete Account Date	Not used	
36	3	ID			0112	Discharge Disposition	Not used	
37	25	СМ			0113	Discharged to Location	Not used	
38	2	ID			0114	Diet Type	Not used	
39	76	ID			0115	Servicing Facility	Facility number and suffix	
40	1	ID			0116	Bed Status	Not used	
41	2	ID			0117	Account Status	Not used	
42	12	СМ				Pending Location	Not used	
43	12	СМ				Prior Temporary Location	Not used	
44	26	TS				Admit Date/Time	Date/time of encounter	
45	26	TS				Discharge Date/Time	Not used	
46	12	NM				Current Patient Balance	Not used	
47	12	NM				Total Charges	Not used	
48	12	NM				Total Adjustments	Not used	
49	12	NM				Total Payments	Not used	
50	20	СМ				Alternate Visit ID	Unique Identifier (PCE)	

<sup>&</sup>lt;sup>6</sup> According to the HL7 standard, the maximum length of this element is 2.

# 15.6.3 PV2 - Patient Visit - Additional Information Segment

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	VISTA DESCRIPTIO N
1	80	PL	С			00181	Prior Pending Location	Not used
2	250	CE	0		0129	00182	Accommodation Code	Not used
3	250	CE	0			00183	Admit Reason	Not used
4	250	CE	0			00184	Transfer Reason	Not used
5	25	ST	0	Y		00185	Patient Valuables	Not used
6	25	ST	0			00186	Patient Valuables Location	Not used
7	2	IS	0	Y	0130	00187	Visit User Code	Not used
8	26	TS	0			00188	Expected Admit Date/Time	Not used
9	26	TS	0			00189	Expected Discharge Date/Time	Not used
10	3	NM	0			00711	Estimated Length of Inpatient Stay	Not used
11	3	NM	0			00712	Actual Length of Inpatient Stay	Not used
12	50	ST	0			00713	Visit Description	Not used
13	250	XCN	0	Y		00714	Referral Source Code	Not used
14	8	DT	0			00715	Previous Service Date	Not used
15	1	ID	0		0136	00716	Employment Illness Related Indicator	Not used
16	1	IS	0		0213	00717	Purge Status Code	Not used
17	8	DT	0			00718	Purge Status Date	Not used
18	2	IS	0		0214	00719	Special Program Code	Not used
19	1	ID	0		0136	00720	Retention Indicator	Not used
20	1	NM	0			00721	Expected Number of Insurance Plans	Not used
21	1	IS	0		0215	00722	Visit Publicity Code	Not used
22	1	ID	0	Y	0136	00723	Visit Protection Indicator	Visit Protection Indicator
23	250	XON	0			00724	Clinic Organization Name	Not used
24	2	IS	0		0216	00725	Patient Status Code	Not used

Table 50: PV2 Additional Information Segment

SEQ	LEN	DT	OPT	RP/#	TBL#	ITEM#	ELEMENT NAME	VISTA DESCRIPTIO N
25	1	IS	0		0217	00726	Visit Priority Code	Not used
26	8	DT	0			00727	Previous Treatment Date	Not used
27	2	IS	0		0112	00728	Expected Discharge Disposition	Not used
28	8	DT	0			00729	Signature on File Date	Not used
29	8	DT	0			00730	First Similar Illness Date	Not used
30	250	CE	0		0218	00731	Patient Charge Adjustment Code	Not used
31	2	IS	0		0219	00732	Recurring Service Code	Not used
32	1	ID	0		0136	00733	Billing Media Code	Not used
33	26	TS	0			00734	Expected Surgery Date and Time	Not used
34	1	ID	0		0136	00735	Military Partnership Code	Not used
35	1	ID	0		0136	00736	Military Non-Availability Code	Not used
36	1	ID	0		0136	00737	Newborn Baby Indicator	Not used
37	1	ID	0		0136	00738	Baby Detained Indicator	Not used
38	250	CE	0		0430	01543	Mode of Arrival Code	Not used
39	250	CE	0	Y	0431	01544	Recreational Drug Use Code	Not used
40	250	CE	0		0432	01545	Admission Level of Care Code	Not used
41	250	CE	0	Y	0433	01546	Precaution Code	Not used
42	250	CE	0		0434	01547	Patient Condition Code	Not used
43	2	IS	0		0315	00759	Living Will Code	Not used
44	2	IS	0		0316	00760	Organ Donor Code	Not used
45	250	CE	0	Y	0435	01548	Advance Directive Code	Not used
46	8	DT	0			01549	Patient Status Effective Date	Not used
47	26	TS	С			01550	Expected LOA Return Date/Time	Not used
48	26	TS	0			01841	Expected Pre-admission Testing Date/Time	Not used

# 15.6.4 DG1 - Diagnosis Information Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI	R			Set ID - Diagnosis	Sequential Number
2	2	ID	R		0053	Diagnosis Coding Method	I9 = ICD-9-CM I10 = ICD-10-CM
3	8	ID			0051	Diagnosis Code	Diagnosis code from OUTPATIENT DIAGNOSIS (#409.43) and ICD DIAGNOSIS (#80) files. Refer to Table 0051 for sample listing of possible values.
4	40	ST				Diagnosis Description	Corresponding diagnosis description from ICD DIAGNOSIS (#80) file. Refer to Table 0051 for sample listing of possible values.
5	26	ΤS				Diagnosis Date/Time	Date/time of encounter
6	2	ID			0052	Diagnosis Type	Not used
7	60	CE			0118	Major Diagnostic Category	Not used
8	4	ID			0055	Diagnostic Related Group	Not used
9	2	ID				DRG Approval Indicator	Not used
10	2	ID			0056	DRG Grouper Review Code	Not used
11	60	CE			0083	Outlier Type	Not used
12	3	NM				Outlier Days	Not used
13	12	NM				Outlier Cost	Not used
14	4	ST				Grouper Version And Type	Not used
15	2	NM				Diagnosis Priority	Will contain 1 if this is the primary diagnosis for the episode.

Table 51: Diagnosis Information Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
16	60	CN				Diagnosing Clinician	Not used

# 15.6.5 PR1 - Procedure Information Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI	R			Set ID - Procedure	Sequential Number
2	2	ID	R		0089	Procedure Coding Method	Not used
3	80	CE	R		0088	Procedure Code	<ul> <li>3 Components:</li> <li>1. Procedure Code</li> <li>2. Corresponding procedure description from CPT file (#81)</li> <li>3. Coding Method (this will always be C4)</li> <li>Refer to Table 0088 for sample listing of possible procedure codes and descriptions.</li> </ul>
4	40	ST				Procedure Description	Not used
5	26	TS				Procedure Date/Time	Not used
6	2	ID			0090	Procedure Type	Not used
7	4	NM				Procedure Minutes	Not used
8	60	CN				Anesthesiologist	Not used
9	2	ID			0019	Anesthesia Code	Not used
10	4	NM				Anesthesia Minutes	Not used
11	60	CN				Surgeon	Not used
12	60	СМ		Y		Procedure Practitioner	Not used
13	2	ID			0059	Consent Code	Not used
14	2	NM				Procedure Priority	Not used
15	80	CD				Associated Diagnosis Code	Not used
16	80	CE		Y	0340	Procedure Code Modifier	3 Components: 1. Modifier Code

Table 52: Procedure Information Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
							2. Corresponding modifier
							description from CPT MODIFIER file (#81.3)
							3. Coding Method:
							C=CPT
							H=HCPCS
							Refer to Table 0340 for sample listing of possible modifier codes and descriptions.

### 15.6.6 ROL - Role Segment

 Table 53: Role Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	60	EI	R			Role Instance ID	<u>4 Components</u> Entity Identifier <sup>7 8</sup> Not used Not used Not used
2	2	ID	R		0287	Action Code	This will always be CO (correct)
3	80	CE	R			Role	<u>6 Components</u> Provider Type Code Not used This will always be VA8932.1 (PERSON CLASS file) Primary Encounter Provider Designation Not used This will always be VA01
4	80	XCN	R	Y/2		Role Person	14 Components         Repetition 1         2 Sub-Components         Pointer to entry in NEW PERSON file         (#200)         Facility Number         Not used         Not used         Not used         Not used

<sup>7</sup> This element will be 1-15 characters/digits followed by a hyphen (-) followed by 3 characters/digits followed by a hyphen (-) followed by 1-15 digits followed by an asterisk (\*) followed by 1-4 digits. (Ex: 123AZ-ALB-1934\*1)

<sup>8</sup> The trailing set of digits (i.e., everything to the right of the asterisk) are an appended Set ID and should be treated as such.

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
							Not used
							Not used
							This will always be <b>VA200</b> (NEW PERSON
							file)
							Not used
							Not used
							Not used
							Not used
							Not used
							Not used
							Repetition 2
							SSN
							Not used
							Not used
							Not used
							Not used
							Not used
							Not used
							This will always be <b>SSA</b> (Social Security Administration)
							Not used
							Not used
							Not used
							Not used
							Not used
							Not used
5	26	TS	0			Role Begin Date/Time	Not used
6	26	TS	0			Role End Date/Time	Not used
7	80	CE	0			Role Duration	Not used
8	80	CE	0			Role Action Reason	Not used

# 15.6.7 ZPD - VA-Specific Patient Information Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V <i>IST</i> A ELEMENT NAME
1	4	SI	R			SET ID - PATIENT ID

SEQ	LEN	DT	R/O	RP/#	TBL#	V/STA ELEMENT NAME
2	60	ST				REMARKS
3	20	ST				PLACE OF BIRTH CITY
4	2	ST				PLACE OF BIRTH STATE
5	2	ID			VA02	CURRENT MEANS TEST STATUS
6	35	ST				FATHER'S NAME
7	35	ST				MOTHER'S NAME
8	1	ID			VA01	RATED INCOMPETENT
9	19	TS				DATE OF DEATH
10	48	PN				COLLATERAL SPONSOR
11	1	ID			VA01	ACTIVE HEALTH INSURANCE?
12	1	ID			VA01	COVERED BY MEDICAID?
13	19	TS				DATE MEDICAID LAST ASKED
14	1	ID			VA07	RACE <sup>9</sup>
15	3	ID			VA08	RELIGION <sup>10</sup>
16	1	ID			VA01	HOMELESS INDICATOR
17	1	ID				POW STATUS INDICATED?
18	2	ID			VA12	TYPE OF INSURANCE
19	1	ID			VA14	MEDICATION COPAYMENT EXEMPTION STATUS
20	1	ID			VA002 3	PRISONER OF WAR LOCATION CODE
21	30	ST				PRIMARY CARE TEAM

<sup>&</sup>lt;sup>9</sup> This element is also found in the Patient Identification (PID) segment. <sup>10</sup> This element is also found in the Patient Identification (PID) segment.

# 15.6.8 ZEL - VA-Specific Patient Eligibility Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME
1	4	SI	R			SET ID
2	2	ID			VA04	ELIGIBILITY CODE
3	16	СК				LONG ID
4	12	ST				SHORT ID
5	1	ID			VA05	DISABILITY RETIREMENT FROM MIL.
6	8	NM				CLAIM FOLDER NUMBER
7	40	ST				CLAIM FOLDER LOCATION
8	1	ID			VA01	VETERAN?
9	30	ST				TYPE OF PATIENT
10	1	ID			VA06	ELIGIBILITY STATUS
11	8	DT				ELIGIBILITY STATUS DATE
12	8	DT				ELIGIBILITY INTERIM RESPONSE
13	50	ST				ELIGIBILITY VERIFICATION METHOD
14	1	ID			VA01	RECEIVING A&A BENEFITS?
15	1	ID			VA01	RECEIVING HOUSEBOUND BENEFITS?
16	1	ID			VA01	RECEIVING A VA PENSION?
17	1	ID			VA01	RECEIVING A VA DISABILITY?
18	1	ID			VA01	EXPOSED TO AGENT ORANGE
19	1	ID			VA01	RADIATION EXPOSURE INDICATED?
20	1	ID			VA01	SW ASIA CONDITIONS?
21	5	NM				TOTAL ANNUAL VA CHECK AMOUNT
22	1	ID			VA002 2	RADIATION EXPOSURE METHOD CODE
23	1	ID			VA003 6	MILITARY SEXUAL TRAUMA STATUS
24	8	DT				DATE MILITARY SEXUAL TRAUMA STATUS CHANGED
25	7	ID			VA011 5	SITE DETERMINING MST STATUS
26	8	DT				AGENT ORANGE REGISTRATION DATE
27	8	DT				AGENT ORANGE EXAM DATE

Table 55: ZEL – VA-Specific Patient Eligibility Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V/STA ELEMENT NAME
28	6	NM				AGENT ORANGE REGISTRATION #
29	1	ID			VA004 6	AGENT ORANGE EXPOSURE LOCATION
30	8	DT				RADIATION REGISTRATION DATE
31	8	DT				SW ASIA COND EXAM DATE
32	8	DT				SW ASIA COND REGISTRATION DATE
33	8	DT				MONETARY BEN. VERIFY DATE
34	8	DT				USER ENROLLEE VALID THROUGH
35						USER ENROLLEE SITE
36						ELIGIBILITY VERIFICATION SOURCE AND SITE
37	1	ID			VA01	COMBAT VETERAN
38	8	DT				COMBAT VETERAN STATUS END DATE
39	1	ID			VA01	DISCHARGE DUE TO DISABILITY?
40	1	ID			VA01	PROJECT 112/SHAD?

# 15.6.9 VA-Specific Income Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V <i>IST</i> A ELEMENT NAME
1	4	SI	R			SET ID
2	1	ID			VA01	MARRIED LAST CALENDAR YEAR
3	1	ID			VA01	LIVED WITH PATIENT
4	8	NM				AMOUNT CONTRIBUTED TO SPOUSE
5	1	ID			VA01	DEPENDENT CHILDREN
6	1	ID			VA01	INCAPABLE OF SELF-SUPPORT
7	1	ID			VA01	CONTRIBUTED TO SUPPORT
8	1	ID			VA01	CHILD HAD INCOME
9	1	ID			VA01	INCOME AVAILABLE TO YOU
10	2	NM				NUMBER OF DEPENDENT CHILDREN
11	2	ST				NUMBER OF DEPENDENTS
12	10	NM				PATIENT INCOME
13	2	ID			VA10	MEANS TEST INDICATOR

Table 56: VA-Specific Income Segment

# 15.6.10 ZCL - VA-Specific Outpatient Classification Segment

Table 57: ZCL – VA-Specific Outpatient	t Classification Segment
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SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME
1	4	SI	R			SET ID
2	2	ID	R		SD00 8	Outpatient Classification Type
3	50	ST				Value

### 15.6.11 ZSC - VA-Specific Stop Code Segment

Table 58: ZSC -	VA-Specific Sto	op Code Segment
-----------------	-----------------	-----------------

SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME
1	4	SI	R			Sequential number
2	4	ID	R		SD00 1	Stop Code

SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME
3	30	ST			SD00 1	Name
4	1	NM				Cost Distribution Center
5	1	ID				Current Exempt. Fr Classification

# 15.6.12 ZSP - VA-Specific Service Period Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V/STA ELEMENT NAME
1	4	SI	R			SET ID
2	1	ID	R		VA01	SERVICE CONNECTED?
3	3	NM				SERVICE CONNECTED PERCENTAGE
4	2	ID			VA11	PERIOD OF SERVICE
5	1	ST				VIETNAM SERVICE INDICATED?
6	1	ID			VA01	P&T
7	1	ID			VA01	UNEMPLOYABLE
8	19	TS				SC AWARD DATE

# 15.6.13 ZEN - VA-Specific Enrollment Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V <i>IST</i> A ELEMENT NAME
1	4	SI	R			SET ID
2	8	DT				ENROLLMENT DATE
3	1	ID			VA002 4	SOURCE OF ENROLLMENT
4	1	ID			VA001 5	ENROLLMENT STATUS
5	1	ID			VA001 6	REASON CANCELED/DECLINED
6	60	ТΧ				CANCELED/DECLINED REMARKS
7	7	ID			VA011 5	FACILITY RECEIVED

 Table 60: ZEN – VA-Specific Enrollment Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	V <i>IST</i> A ELEMENT NAME
8	7	ID			VA011 5	PRIMARY FACILITY
9	1	ID			VA002 1	ENROLLMENT PRIORITY
10	8	DT				EFFECTIVE DATE

### 15.7 PURPOSE

This section defines the HL7 message transactions that are necessary to support the outpatient database interface for the Austin Information Technology Center (AITC), (formerly the Austin Automation Center (AAC)).

These messages will use the generic HL7 format, so that they can be expanded later to support new interfaces at other facilities.

# **15.8 Trigger Events and Message Definitions**

Each triggering event is listed below, along with the applicable form of the message to be exchanged. The notation used to describe the sequence, optionally, and repetition of segments is described in the HL7 Final Standard Manual, Chapter 2, Section 2.4.8, Chapter Formats for Defining Abstract Messages, and in summary form, in Section 2.1 of this document.

# **15.8.1 Update Patient Information (A08)**

The Outpatient Event Driver will be triggered under the following circumstances:

- When an outpatient appointment is checked out
- When a checked out outpatient appointment is edited
- When stop codes for an outpatient appointment are added or edited
- When a check out creates an occasion of service

Taking advantage of the outpatient event driver, this will trigger an A08 message to be sent. The receiving system will replace any data that exists with the "new" data that is transmitted with this message.

ADT	ADT Message
MSH	Message Header
EVN	Event Type
PID	Patient Identification
PD1	Patient Additional Demographic
PV1	Patient Visit
PV2	Patient Visit Additional Information
[ { DG1 } ]	Diagnosis Information
{ PR1 }	Procedure Information
{ROL}	Role
700	
ZPD	VA-Specific Patient Information
ZPD ZEL	VA-Specific Patient Information VA-Specific Patient Eligibility Information
	-
ZEL	VA-Specific Patient Eligibility Information
ZEL ZIR	VA-Specific Patient Eligibility Information VA-Specific Income
ZEL ZIR {ZCL}	VA-Specific Patient Eligibility Information VA-Specific Income VA-Specific Outpatient Classification
ZEL ZIR {ZCL} {ZSC}	VA-Specific Patient Eligibility Information VA-Specific Income VA-Specific Outpatient Classification VA-Specific Stop Code
ZEL ZIR {ZCL} {ZSC} ZSP	<ul> <li>VA-Specific Patient Eligibility Information</li> <li>VA-Specific Income</li> <li>VA-Specific Outpatient Classification</li> <li>VA-Specific Stop Code</li> <li>VA-Specific Service Period</li> </ul>
ZEL ZIR {ZCL} {ZSC} ZSP ZEN	<ul> <li>VA-Specific Patient Eligibility Information</li> <li>VA-Specific Income</li> <li>VA-Specific Outpatient Classification</li> <li>VA-Specific Stop Code</li> <li>VA-Specific Service Period</li> <li>VA Specific Enrollment</li> </ul>

### 15.8.2 Delete a Patient Record (A23)

When a check out is deleted, this message instructs the receiver to delete the information for this patient's visit.

ADT ADT Message

MSH	Message Header
EVN	Event Type
PID	Patient Identification
PD1	Patient Additional Demographic
PV1	Patient Visit
ZPD	VA-Specific Patient Information
ACK	General Acknowledgment Message
MSH	Message Header
MSA	Message Acknowledgment

#### **15.9 SUPPORTED AND USER-DEFINED HL7 TABLES**

#### 15.9.1 TABLE 0001 - SEX

Table 61: Table 0001 – Sex

VALUE	DESCRIPTION
F	FEMALE
Μ	MALE
0	OTHER
U	UNKNOWN

#### 15.9.2 TABLE 0002 - MARITAL STATUS

Table 62: Table 0002 – Marital Status

VALUE	DESCRIPTION
А	SEPARATED
D	DIVORCED
М	MARRIED
S	SINGLE
W	WIDOWED

#### 15.9.3 TABLE 0003 - EVENT TYPE CODE

Table 63: Table 0003 – Event Type Code

VALUE	DESCRIPTION
A08	UPDATE PATIENT INFORMATION
A23	DELETE PATIENT RECORD

#### 15.9.4 TABLE 0008 - ACKNOWLEDGMENT CODE

VALUE	DESCRIPTION
AA	APPLICATION ACKNOWLEDGMENT: ACCEPT
AE	APPLICATION ACKNOWLEDGMENT: ERROR
AR	APPLICATION ACKNOWLEDGMENT: REJECT
CA	ACCEPT ACKNOWLEDGMENT: COMMIT ACCEPT
CE	ACCEPT ACKNOWLEDGMENT: COMMIT ERROR
CR	ACCEPT ACKNOWLEDGMENT: COMMIT REJECT

Table 64: Table 0008 – Acknowledgment Code

#### 15.9.5 TABLE 0023 - ADMIT SOURCE (USER DEFINED)

Used for Location of Visit. Sample listing of possible values.

- VALUE DESCRIPTION
- 1 THIS FACILITY
- 6 OTHER FACILITY

#### 15.9.6 TABLE 0051 - DIAGNOSIS CODE (USER DEFINED)

Use ICD DIAGNOSIS (#80) file, Code Number (.01) for value and Diagnosis (3) for

Description. Sample listing of possible values.

VALUE DESCRIPTION

- 253.2 PANHYPOPITUITARISM
- 253.3 PITUITARY DWARFISM
- 253.4 ANTER PITUITARY DIS NEC
- 253.5 DIABETES INSIPIDUS
- 253.6 NEUROHYPOPHYSIS DIS NEC
- 253.7 IATROGENIC PITUITARY DIS
- 253.8 DISEASES OF THYMUS NEC
- 253.9 PITUITARY DISORDER NOS
- 254.1 ABSCESS OF THYMUS
- 254.8 DISEASES OF THYMUS NEC
- 254.9 DISEASE OF THYMUS NOS
- 255.1 HYPERALDOSTERONISM
- 255.2 ADRENOGENITAL DISORDERS

#### 15.9.7 TABLE 0069 - HOSPITAL SERVICE (USER DEFINED)

Use SPECIALTY file (#42.4), PTF Code (.001). Sample listing of possible values.

- VALUE DESCRIPTION
- 2 CARDIOLOGY
- 6 DERMATOLOGY
- 7 ENDOCRINOLOGY
- 8 GEM ACUTE MEDICINE
- 12 CORONARY CARE UNIT

- 12 EMERGENCY MEDICINE
- 15 GENERAL MEDICINE
- 21 BLIND REHAB
- 31 GEM INTERMEDIAT E CARE
- 55 EVAL/BRF TRMT PTSD
- 72 ALCOHOL
- 85 DOM
- 88 DOMICILIARY PTSD
- 91 GASTROENTEROLOGY
- 92 GEN INTERMEDIATE PSYCH

#### 15.9.8 TABLE 0076 - MESSAGE TYPE

- VALUE DESCRIPTION
- ADT ADT MESSAGE
- ACK GENERAL ACKNOWLEDGMENT

#### 15.9.9 TABLE 0088 - PROCEDURE CODE (USER DEFINED)

Sample listing of possible values.

VALUE DESCRIPTION

10141 INCISION AND DRAINAGE OF HEMATOMA; COMPLICATED

#### 15.9.10 TABLE 0115 - SERVICING FACILITY (USER DEFINED)

Sample listing of possible values.

- VALUE DESCRIPTION
- 512 9AC Perry Point (Nursing Home)

PIMS

# 15.9.11 TABLE 0133 - PROCEDURE PRACTITIONER TYPE (USER DEFINED)

Sample listing of possible values.

VALUE	OCCUPATION SPECIALTY SUB	SPECIALTY
V110000	Physicians (M.D.) and Osteopaths (D.O.)	
V110100	Physicians (M.D.) and Osteopaths (D.O.)	Addiction Medicine
V110300	Physicians (M.D.) and Osteopaths (D.O.)	Allergy and Immunology
V110301 Clinical and	Physicians (M.D.) and Osteopaths (D.O.) Laboratory	Allergy and Immunology
V110200	Physicians (M.D.) and Osteopaths (D.O.)	Allergy
V110400	Physicians (M.D.) and Osteopaths (D.O.)	Anesthesiology
V110401	Physicians (M.D.) and Osteopaths (D.O.)	Anesthesiology Critical Care
V110402 Management	Physicians (M.D.) and Osteopaths (D.O.)	Anesthesiology Pain

#### 15.9.12 TABLE 0136 - YES/NO INDICATOR

VALUE DESCRIPTION

- Y YES
- N NO

#### 15.9.13 TABLE SD001 - SERVICE INDICATOR (STOP CODE)

Sample listing of possible values.

VALUE DESCRIPTION

- 104 PULMONARY FUNCTION
- 105 X-RAY
- 106 EEG
- 107 EKG
- 108 LABORATORY
- 109 NUCLEAR MEDICINE
- 110 CARDIOVASCULAR NUCLEAR MED
- 111 ONCOLOGICAL NUCLEAR MED
- 112 INFECTIOUS DISEASE NUCLEAR MED
- 113 RADIONUCLIDE TREATMENT
- 114 SING PHOTON EMISS TOMOGRAPHY

- 115 ULTRASOUND
- 117 NURSING
- 118 HOME TREATMENT SERVICES
- 119 COMM NURSING HOME FOLLOW-UP

#### **15.9.14 TABLE SD008 - OUTPATIENT CLASSIFICATION TYPE**

VALUE DESCRIPTION

- 1 AGENT ORANGE
- 2 IONIZING RADIATION
- 3 SERVICE CONNECTED
- 4 SW ASIA CONDITIONS
- 5 MILITARY SEXUAL TRAUMA
- 6 HEAD AND/OR NECK CANCER
- 7 COMBAT VETERAN
- 8 PROJECT 112/SHAD

#### 15.9.15 TABLE SD009 - PURPOSE OF VISIT

Value denotes a combination of Purpose of Visit & Appointment Type.

VALUE PURPOSE OF VISIT APPOINTMENT TYPE

- 0101 C&P COMPENSATION & PENSION
- 0102 C&P CLASS II DENTAL
- 0103 C&P ORGAN DONORS
- 0104 C&P EMPLOYEE
- 0105 C&P PRIMA FACIA
- 0106 C&P RESEARCH
- 0107 C&P COLLATERAL OF VET.
- 0108 C&P SHARING AGREEMENT
- 0109 C&P REGULAR
- 0111 C&P SERVICE CONNECTED
- 0201 10-10 COMPENSATION & PENSION
- 0202 10-10 CLASS II DENTAL
- 0203 10-10 ORGAN DONORS
- 0204 10-10 EMPLOYEE

#### PIMS

0205	10-10 PRIMA FACIA
0206	10-10 RESEARCH
0207	10-10 COLLATERAL OF VET.
0208	10-10 SHARING AGREEMENT
0209	10-10 REGULAR
0211	10-10 SERVICE CONNECTED
0301	SCHEDULED VISIT COMPENSATION & PENSION
0302	SCHEDULED VISIT CLASS II DENTAL
0303	SCHEDULED VISIT ORGAN DONORS
0304	SCHEDULED VISIT EMPLOYEE
0305	SCHEDULED VISIT PRIMA FACIA
0306	SCHEDULED VISIT RESEARCH
0307	SCHEDULED VISIT COLLATERAL OF VET.
0308	SCHEDULED VISIT SHARING AGREEMENT
0309	SCHEDULED VISIT REGULAR
0311	SCHEDULED VISIT SERVICE CONNECTED
0401	UNSCHED. VISIT COMPENSATION & PENSION
0402	UNSCHED. VISIT CLASS II DENTAL
0403	UNSCHED. VISIT ORGAN DONORS
0404	UNSCHED. VISIT EMPLOYEE
0405	UNSCHED. VISIT PRIMA FACIA
0406	UNSCHED. VISIT RESEARCH
0407	UNSCHED. VISIT COLLATERAL OF VET.
0408	UNSCHED. VISIT SHARING AGREEMENT
0409	UNSCHED. VISIT REGULAR
0411	UNSCHED. VISIT SERVICE CONNECTED
15.9.	16 TABLE VA01 - YES/NO

#### 15.9.16 TABLE VA01 - YES/NO

- 0 NO
- 1 YES
- N NO
- Y YES

#### U UNKNOWN

#### 15.9.17 TABLE VA02 - CURRENT MEANS TEST STATUS

Type of Care (#.03) field of MEANS TEST STATUS (#408.32) file.

VALUE DESCRIPTION

- D DISCRETIONARY
- M MANDATORY
- N NOT APPLICABLE

#### 15.9.18 TABLE VA04 - ELIGIBILITY

Name (#.01) field of MAS ELIGIBILITY CODE (#8.1) file.

VALUE DESCRIPTION

- 1 SERVICE CONNECTED 50% to 100%
- 2 AID & ATTENDANCE
- 3 SC LESS THAN 50%
- 4 NSC VA PENSION
- 5 NSC
- 6 OTHER FEDERAL AGENCY
- 7 ALLIED VETERAN
- 8 HUMANITARIAN EMERGENCY
- 9 SHARING AGREEMENT
- 10 REIMBURSABLE INSURANCE
- 12 CHAMPVA
- 13 COLLATERAL OF VET.
- 14 EMPLOYEE
- 15 HOUSEBOUND
- 16 MEXICAN BORDER WAR
- 17 WORLD WAR I
- 18 PRISONER OF WAR
- 19 TRICARE/CHAMPUS
- 21 CATASTROPHIC DISABILITY
- 22 PURPLE HEART RECIPIENT

#### 15.9.19 TABLE VA05 - DISABILITY RETIREMENT FROM MILITARY

Disability Ret. From Military? (#.362) field of PATIENT (#2) file.

VALUE DESCRIPTION

- 0 NO
- 1 YES, RECEIVING MILITARY RETIREMENT
- 2 YES, RECEIVING MILITARY RETIREMENT IN LIEU OF VA COMPENSATION
- 3 UNKNOWN

#### 15.9.20 TABLE VA06 - ELIGIBILITY STATUS

Eligibility Status (#.3611) field of PATIENT (#2) file.

VALUE DESCRIPTION

- P PENDING VERIFICATION
- R PENDING RE-VERIFICATION
- V VERIFIED

#### 15.9.21 TABLE VA07 - RACE

Abbreviation (#2) field of RACE (#10) file.

VALUE DESCRIPTION

- 1 HISPANIC, WHITE
- 2 HISPANIC, BLACK
- 3 AMERICAN INDIAN OR ALASKA NATIVE
- 4 BLACK, NOT OF HISPANIC ORIGIN
- 5 ASIAN OR PACIFIC ISLANDER
- 6 WHITE, NOT OF HISPANIC ORIGIN
- 7 UNKNOWN

#### 15.9.22 TABLE VA08 - RELIGION

Code (#3) field of RELIGION (#13) file.

- VALUE DESCRIPTION
- 0 ROMAN CATHOLIC CHURCH
- 1 JUDAISM
- 2 EASTERN ORTHODOX
- 3 BAPTIST
- 4 METHODIST

#### PIMS

5

6 PRESBYTERIAN
7 UNITED CHURCH OF CHRIST
8 EPISCOPALIAN
9 ADVENTIST
10 ASSEMBLY OF GOD
11 BRETHREN

LUTHERAN

- 12 CHRISTIAN SCIENTIST
- 13 CHURCH OF CHRIST
- 14 CHURCH OF GOD
- 15 DISCIPLES OF CHRIST
- 16 EVANGELICAL COVENANT
- 17 FRIENDS
- 18 JEHOVAH'S WITNESSES
- 19 LATTER DAY SAINTS
- 20 ISLAM
- 21 NAZARENE
- 22 OTHER
- 23 PENTECOSTAL
- 24 PROTESTANT
- 25 PROTESTANT, NO DENOMINATION
- 26 REFORMED
- 27 SALVATION ARMY
- 28 UNITARIAN-UNIVERSALISM
- 29 UNKNOWN/NO PREFERENCE
- 30 NATIVE AMERICAN
- 31 ZEN BUDDHISM

#### 15.9.23 TABLE VA08 - RELIGION (CONT.)

Code (#3) field of RELIGION (#13) file.

- VALUE DESCRIPTION
- 32 AFRICAN RELIGIONS
- 33 AFRO-CARIBBEAN RELIGIONS
- 34 AGNOSTICISM
- 35 ANGLICAN
- 36 ANIMISM
- 37 ATHEISM
- 38 BABI & BAHA'I FAITHS
- 39 BON
- 40 CAO DAI
- 41 CELTICISM
- 42 CHRISTIAN (NON-SPECIFIC)
- 43 CONFUCIANISM
- 44 CONGREGATIONAL
- 45 CYBERCULTURE RELIGIONS
- 46 DIVINATION
- 47 FOURTH WAY
- 48 FREE DAISM
- 49 FULL GOSPEL
- 50 GNOSIS
- 51 HINDUISM
- 52 HUMANISM
- 53 INDEPENDENT
- 54 JAINISM
- 55 MAHAYANA
- 56 MEDITATION
- 57 MESSIANIC JUDAISM
- 58 MITRAISM
- 59 NEW AGE
- 60 NON-ROMAN CATHOLIC

#### PIMS

- 61 OCCULT
- 62 ORTHODOX
- 63 PAGANISM
- 64 PROCESS, THE
- 65 REFORMED/PRESBYTERIAN
- 66 SATANISM
- 67 SCIENTOLOGY
- 68 SHAMANISM
- 69 SHIITE (ISLAM)
- 70 SHINTO
- 71 SIKISM
- 72 SPIRITUALISM
- 73 SUNNI (ISLAM)
- 74 TAOISM
- 75 THERAVADA
- 76 UNIVERSAL LIFE CHURCH
- 77 VAJRAYANA (TIBETAN)
- 78 VEDA
- 79 VOODOO
- 80 WICCA
- 81 YAOHUSHUA
- 82 ZOROASTRIANISM
- 83 ASKED BUT DECLINED TO ANSWER

#### 15.9.24 TABLE VA10 - MEANS TEST INDICATOR

#### Table 65: Table VA10 – Means Test Indicator

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VALUE	DESCRIPTION
AS	This Means Test category includes all compensable service-connected (0-100%) veterans and special category veterans. Special category veterans include: Mexican Border War and World War I veterans; former Prisoners of War; and patients receiving care for conditions potentially related to exposure to either Agent Orange (Herbicides), Ionizing Radiation or SW Asia Conditions. This category also includes 0% non-compensable service-connected veterans when they are treated for a service-connected condition.
AN	This Means Test category includes NSC veterans who are required to complete VA Form 10-10F (Financial Worksheet) and those NSC veterans in receipt of VA pension, aid and attendance, housebound allowance, or entitled to State Medicaid. This category may also include 0% non-compensable service-connected veterans when they are not treated for a service-connected condition and are placed in this category based on completion of a Means Test.
С	This Means Test category includes those veterans who, based on income and/or net worth, are required to reimburse VA for care rendered. This category also includes those pending adjudication. This category may also include 0% non-compensable service-connected veterans when they are not treated for a service-connected condition and are placed in this category based on completion of a Means Test.
G	This Means Test category includes veterans whose income is less than or equal to the MT threshold and whose estate value is greater than or equal to the net worth threshold, or such veterans whose income is greater than the MT threshold, but less than or equal to the GMT threshold, and whose estate value is less than the net worth threshold.
N	This Means Test category includes only non-veterans receiving treatment at VA facilities.
X	This Means Test category includes treatment of patients who are not required to complete the Means Test for the care being provided. If the veteran was admitted prior to July 1, 1986 with no change in the level of care being received, (i.e., if the patient was in the Nursing Home Care Unit (NHCU) on June 30, 1986 and has remained in the NHCU since that date with no transfer to the hospital for treatment), the "X" Means Test indicator will be accepted. This category also includes patients admitted to the domiciliary, patients seen for completion of a compensation and pension examination, and Class II dental treatment.

	This Means Test category includes only those patients who require a Means Test, and the Means Test has not been done/completed. The National Patient Care Database will not accept the transaction unless the Means Test has been completed.
	Database will not accept the transaction unless the Means Test has been completed.

#### 15.9.25 TABLE VA11 - PERIOD OF SERVICE

0KOREAN1WORLD WAR I2WORLD WAR II3SPANISH AMERICAN4PRE-KOREAN5POST-KOREAN6OPERATION DESERT SHIELD7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTOREPOTHER REIMBURS. (NON-VET)	VALUE	DESCRIPTION
2WORLD WAR II3SPANISH AMERICAN4PRE-KOREAN5POST-KOREAN6OPERATION DESERT SHIELD7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	0	KOREAN
3SPANISH AMERICAN4PRE-KOREAN5POST-KOREAN6OPERATION DESERT SHIELD7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	1	WORLD WAR I
4PRE-KOREAN5POST-KOREAN6OPERATION DESERT SHIELD7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	2	WORLD WAR II
5POST-KOREAN6OPERATION DESERT SHIELD7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	3	SPANISH AMERICAN
<ul> <li>6 OPERATION DESERT SHIELD</li> <li>7 VIETNAM ERA</li> <li>8 POST-VIETNAM</li> <li>9 OTHER OR NONE</li> <li>A ARMY - ACTIVE DUTY</li> <li>B NAVY, MARINE - ACTIVE DUTY</li> <li>C AIR FORCE - ACTIVE DUTY</li> <li>D COAST GUARD - ACTIVE DUTY</li> <li>E RETIRED, UNIFORMED FORCES</li> <li>F MEDICAL REMEDIAL ENLIST</li> <li>G MERCHANT SEAMEN - USPHS</li> <li>H OTHER USPHS BENEFICIARIES</li> <li>I OBSERVATION/EXAMINATION</li> <li>J OFFICE OF WORKERS COMP</li> <li>K JOB CORPS/PEACE CORPS</li> <li>L RAILROAD RETIREMENT</li> <li>M BENEFICIARIES-FOREIGN GOV</li> <li>N HUMANITARIAN (NON-VET)</li> <li>O CHAMPUS RESTORE</li> </ul>	4	PRE-KOREAN
7VIETNAM ERA8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	5	POST-KOREAN
8POST-VIETNAM9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	6	OPERATION DESERT SHIELD
9OTHER OR NONEAARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	7	VIETNAM ERA
AARMY - ACTIVE DUTYBNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	8	POST-VIETNAM
BNAVY, MARINE - ACTIVE DUTYCAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	9	OTHER OR NONE
CAIR FORCE - ACTIVE DUTYDCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	А	ARMY - ACTIVE DUTY
DCOAST GUARD - ACTIVE DUTYERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	В	NAVY, MARINE - ACTIVE DUTY
ERETIRED, UNIFORMED FORCESFMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	С	AIR FORCE - ACTIVE DUTY
FMEDICAL REMEDIAL ENLISTGMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	D	COAST GUARD - ACTIVE DUTY
GMERCHANT SEAMEN - USPHSHOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	E	RETIRED, UNIFORMED FORCES
HOTHER USPHS BENEFICIARIESIOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	F	MEDICAL REMEDIAL ENLIST
IOBSERVATION/EXAMINATIONJOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	G	MERCHANT SEAMEN - USPHS
JOFFICE OF WORKERS COMPKJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	Н	OTHER USPHS BENEFICIARIES
KJOB CORPS/PEACE CORPSLRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	Ι	OBSERVATION/EXAMINATION
LRAILROAD RETIREMENTMBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	J	OFFICE OF WORKERS COMP
MBENEFICIARIES-FOREIGN GOVNHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	Κ	JOB CORPS/PEACE CORPS
NHUMANITARIAN (NON-VET)OCHAMPUS RESTORE	L	RAILROAD RETIREMENT
O CHAMPUS RESTORE	М	BENEFICIARIES-FOREIGN GOV
	Ν	HUMANITARIAN (NON-VET)
P OTHER REIMBURS. (NON-VET)	0	CHAMPUS RESTORE
	Р	OTHER REIMBURS. (NON-VET)

- Q OTHER FEDERAL DEPENDENT
- R DONORS (NON-VET)
- S SPECIAL STUDIES (NON-VET)
- T OTHER NON-VETERANS
- U CHAMPVA SPOUSE, CHILD
- V CHAMPUS
- W CZECHOSLOVAKIA/POLAND SVC
- X PERSIAN GULF WAR
- Y CAV/NPS
- Z MERCHANT MARINE

#### 15.9.26 TABLE VA12 - TYPE OF INSURANCE

- VALUE DESCRIPTION
- 0 NO INSURANCE
- 1 MAJOR MEDICAL
- 2 DENTAL
- 3 HMO
- 4 PPO
- 5 MEDICARE
- 6 MEDICAID
- 7 CHAMPUS
- 8 WORKMAN COMP
- 9 INDEMNITY
- 10 PRESCRIPTION
- 11 MEDICARE SUPPLEMENTAL
- 12 ALL OTHER

#### 15.9.27 TABLE VA0015 - ENROLLMENT STATUS

- VALUE DESCRIPTION
- 1 UNVERIFIED
- 2 VERIFIED
- 3 INACTIVE
- 4 REJECTED
- 5 SUSPENDED

6	TERMINATED
7	CANCELED/DECLINED
8	EXPIRED
9	PENDING

#### 15.9.28 TABLE VA0016 - REASON CANCELED/DECLINED

- VALUE DESCRIPTION
- 1 DISSATISFIED WITH CARE
- 2 GEOGRAPHIC ACCESS
- 3 OTHER INSURANCE
- 4 OTHER

#### 15.9.29 TABLE VA0021 - ENROLLMENT PRIORITY

- VALUE DESCRIPTION
- 1 PRIORITY 1
- 2 PRIORITY 2
- 3 PRIORITY 3
- 4 PRIORITY 4
- 5 PRIORITY 5
- 6 PRIORITY 6
- 7 PRIORITY 7
- 8 PRIORITY 8

#### 15.9.30 TABLE VA0022 - RADIATION EXPOSURE METHOD

- VALUE DESCRIPTION
- 2 NAGASAKI HIROSHIMA
- 3 NUCLEAR TESTING
- 4 BOTH

#### 15.9.31 TABLE VA0023 - PRISONER OF WAR LOCATION

- VALUE DESCRIPTION
- 4 WORLD WAR I
- 5 WORLD WAR II EUROPE

- 6 WORLD WAR II PACIFIC
- 7 KOREAN
- 8 VIETNAM
- 9 OTHER
- A PERSIAN GULF WAR
- B YUGOSLAVIA AS A COMBAT ZONE

#### 15.9.32 TABLE VA0024 - SOURCE OF ENROLLMENT

- VALUE DESCRIPTION
- 1 VAMC
- 2 HEC
- 3 OTHER VAMC

#### 15.9.33 TABLE VA0046 - AGENT ORANGE EXPOSURE LOCATION

- VALUE DESCRIPTION
- K KOREAN DMZ
- V VIETNAM
- O OTHER

#### 15.9.34 TABLE NPCD 001 - NATIONAL PATIENT CARE DATABASE ERROR CODES

Sample listing of possible values.

- VALUE DESCRIPTION
- 100 EVENT TYPE SEGMENT
- 200 PATIENT NAME
- 205 DATE OF BIRTH
- 210 SEX
- 215 RACE

PIMS

#### 15.10 HL7 Interface Specification for the Transmission of PCMM Primary Care Data

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

#### 15.11 Assumptions

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

#### 15.12 Message Definitions

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

#### 15.13 Segment Table Definitions

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

#### **15.14 Message Control Segments**

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

# 16 HL7 message transactions

PCMM no longer transfers data using HL7 transmissions. This was replaced by Corporate Data Warehouse (CDW)/VHA Support Service Center (VSSC) in 2009.

# 17 SUPPORTED AND USER-DEFINED HL7 TABLES

#### 17.1 Table 0001 - Sex

- VALUE DESCRIPTION
- F FEMALE
- M MALE
- O OTHER
- U UNKNOWN

#### 17.2 Table 0002 - Marital Status

- VALUE DESCRIPTION
- A SEPARATED
- D DIVORCED
- M MARRIED
- S SINGLE
- W WIDOWED

#### 17.3 Table 0003 - Event Type Code

VALUE	DESCRIPTION
A08	UPDATE PATIENT INFORMATION

#### 17.4 Table 0005 - Race

VALUE	DESCRIPTION
1	HISPANIC, WHITE
2	HISPANIC, BLACK
3	AMERICAN INDIAN OR ALASKA NATIVE
4	BLACK, NOT OF HISPANIC ORIGIN
5	ASIAN OR PACIFIC ISLANDER
6	WHITE, NOT OF HISPANIC ORIGIN
7	UNKNOWN

#### 17.5 Table 0006 - Religion

VALUE	DESCRIPTION
0	ROMAN CATHOLIC CHURCH
1	JUDAISM

2	EASTERN ORTHODOX
3	BAPTIST
4	METHODIST
5	LUTHERAN
6	PRESBYTERIAN
7	UNITED CHURCH OF CHRIST
8	EPISCOPALIAN
9	ADVENTIST
10	ASSEMBLY OF GOD
11	BRETHREN
12	CHRISTIAN SCIENTIST
13	CHURCH OF CHRIST
14	CHURCH OF GOD
15	DISCIPLES OF CHRIST
16	EVANGELICAL COVENANT
17	FRIENDS
18	JEHOVAH'S WITNESSES
19	LATTER DAY SAINTS
20	ISLAM
21	NAZARENE
22	OTHER
23	PENTECOSTAL
24	PROTESTANT
25	PROTESTANT, NO DENOMINATION
26	REFORMED
27	SALVATION ARMY
28	UNITARIAN-UNIVERSALISM
29	UNKNOWN/NO PREFERENCE
30	NATIVE AMERICAN
31	ZEN BUDDHISM
32	AFRICAN RELIGIONS
33	AFRO-CARIBBEAN RELIGIONS
34	AGNOSTICISM

35	ANGLICAN
36	ANIMISM
37	ATHEISM
38	BABI & BAHA'I FAITHS
39	BON
40	CAO DAI
41	CELTICISM
42	CHRISTIAN (NON-SPECIFIC)
43	CONFUCIANISM
44	CONGREGATIONAL
45	CYBERCULTURE RELIGIONS
46	DIVINATION
47	FOURTH WAY
48	FREE DAISM
49	FULL GOSPEL

# 17.6 Table 0006 - Religion (cont.)

J
DESCRIPTION
GNOSIS
HINDUISM
HUMANISM
INDEPENDENT
JAINISM
MAHAYANA
MEDITATION
MESSIANIC JUDAISM
MITRAISM
NEW AGE
NON-ROMAN CATHOLIC
OCCULT
ORTHODOX
PAGANISM
PROCESS, THE

- 65 REFORMED/PRESBYTERIAN
- 66 SATANISM
- 67 SCIENTOLOGY
- 68 SHAMANISM
- 69 SHIITE (ISLAM)
- 70 SHINTO
- 71 SIKISM
- 72 SPIRITUALISM
- 73 SUNNI (ISLAM)
- 74 TAOISM
- 75 THERAVADA
- 76 UNIVERSAL LIFE CHURCH
- 77 VAJRAYANA (TIBETAN)
- 78 VEDA
- 79 VOODOO
- 80 WICCA
- 81 YAOHUSHUA
- 82 ZOROASTRIANISM
- 83 ASKED BUT DECLINED TO ANSWER

#### 17.7 Table 0076 - Message Type

VALUE	DESCRIPTION
	22501111011

ADT ADT MESSAGE

# 18 HL7 Interface Specification for VIC Card VistA to NCMD

When a Veteran's ID Card (VIC) Image Capture workstation retrieves demographic data from VistA, a record will be created in a VistA file to indicate that a VIC request is pending under the following exception conditions.

- The patient does not have a National Integrated Control Number (ICN).
- The eligibility/enrollment information needed to determine the patient's eligibility for a VIC is incomplete.
- The current status of the veteran's claim for Purple Heart eligibility is either pending or in-process.

A Health Level 7 (HL7) message will be used to notify the National Card Management Directory (NCMD) when these exceptions have been resolved.

This specifies the information needed to either release the previous hold or cancel a pending VIC order request and communicate the order action to the NCMD.

The data exchange will be triggered when the daily VistA re-evaluation of the pending VIC order request finds that a National ICN exists and the VIC eligibility can be determined.

The basic communication protocol will be addressed, as well as the information that will be made available and how it will be obtained.

This application will use the abstract message approach and encoding rules specified by HL7. HL7 is used for communicating data associated with various events which occur in health care environments.

The formats of these messages conform to the Version 2.4 HL7 Interface Standards where applicable.

#### 18.1 Assumptions

The transmission of VIC requests from VistA to the NCMD assumes the following.

- All VistA sites will have installed VistA HL7 software and it is operational.
- The veteran's demographics and digital photograph have been previously loaded into the NCMD.

#### 18.2 Message Content

The data sent in the HL7 messages will be limited to the information that is required to uniquely identify the patient and request the VIC card. The data transmitted will be limited to available VistA data.

#### 18.3 Data Capture and Transmission

• The following event trigger will generate a General Order Message (ORM~O01).

• VistA re-evaluates a pending VIC card request and the associated patient has a nationally assigned ICN and the necessary eligibility/enrollment information needed to determine the patient's VIC eligibility.

Note: Any modification made to the VistA database in non-standard ways, such as a direct global set by an application or by MUMPS code, will not be captured.

#### 18.4VA TCP/IP Lower Level Protocol

The HL7 V. 1.6 TCP/IP lower level protocol (LLP) will be used which implements the HL7 Minimal Lower Layer Protocol (MLLP) referenced in section C.4 of Appendix C of the Health Level 7 Implementation Guide (v2.3).

HL7 CONTROL SEGMENTS - This section defines the HL7 control segments supported by VistA. The messages are presented separately and defined by category. Segments are also described. The messages are presented in the Message Control category.

#### 18.4.1 Message Definitions

From the VistA perspective, all incoming or outgoing messages are handled or generated based on an event.

In this section and the following sections, the following elements will be defined for each message.

- Trigger events
- Message event code
- List of segments used in the message
- List of fields for each segment in the message

Each message is composed of segments. Segments contain logical groupings of data. Segments may be optional or repeatable. A [] indicates the segment is optional, the {} indicates the segment is repeatable. For each message category, there will be a list of HL7 standard segments used for the message.

#### 18.4.2 Segment Table Definitions

For each segment, the data elements are described in table format. The table includes the sequence number (SEQ), maximum length (LEN), data type (DT), required or optional (R/O), repeatable (RP/#), the table number (TBL#), the element name, and the VistA description. Each segment is described in the following sections.

# 18.4.3 Message Control Segments

This section describes the message control segments that are contained in message types described in this document. These are generic descriptions. Any time any of the segments described in this section are included in a message in this document, the VistA descriptions and mappings will be as specified here unless otherwise specified in that section.

### 18.4.4 MSH - Message Header Segment

Table 66: MSH – Message Header Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	1	ST	R			Field Separator	Recommended value is ^ (caret)
2	4	ST	R			Encoding Characters	Recommended delimiter values:
							Component = ~ (tilde)
							Repeat =   (bar)
							Escape = \ (back slash)
							Sub-component = & (ampersand)
3	15	ST				Sending Application	Name field of HL7 Application Parameter file.
4	20	ST				Sending Facility	Sending station's facility number from Institution field of HL7 Communication Parameters file.
5	30	ST				Receiving Application	Name field of HL7 Application Parameter file.
6	30	ST				Receiving Facility	Receiving station's facility number from Institution field of HL Logical Link file.
7	26	ΤS				Date/Time Of Message	Date and time message was created.
8	40	ST				Security	Not used
9	7	СМ	R		0076	Message Type	2 Components
					0003		Refer to Table 0076
							Refer to Table 0003

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
10	20	ST	R			Message Control ID	Automatically generated by VISTA HL7 Package.
11	1	ID	R		0103	Processing ID	P (production)
12	8	ID	R		0104	Version ID	Version ID field of event protocol in Protocol file.
13	15	NM				Sequence Number	Not used
14	180	ST				Continuation Pointer	Not used
15	2	ID			0155	Accept Acknowledgment Type	NE (never acknowledge)
16	2	ID			0155	Application Acknowledgment Type	AL (always acknowledge)
17	2	ID				Country Code	USA
18	6	ID		Y/3	0211	Character Set	Not used
19	60	CE				Principal Language of Message	Not used

# 18.4.5 MSA – Message Acknowledgement Segment

Table 67: MSA – Message Acknowledgement Segment

2.3.1	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	2	ID	R		8000	Acknowledgment Code	Refer to HL7 table 0008
2	20	ST	R				Message Control ID of the message being acknowledged.
3	80	ST	0			Text Message	Free text error message

2.3.1	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
4	15	NM	0			Expected Sequence Number	Not used
5	1	ID	В		0102	Delayed Acknowledgment Type	Not used
6	100	CE	0			Error Condition	Not used

#### **18.4.6 PID - Patient Identification Segment**

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	4	SI				Set ID - Patient ID	Always set to '1'
2	20	СК				Patient ID (External ID)	Social Security Number field of Patient file.
3	20	СМ	R	Y		Patient ID (Internal ID)	Integrated Control Number (ICN) field of Patient file.
							Component 1: ICN w/checksum
							Component 2: Null
							Component 3: Null
							Component 4: Assigning authority (subcomponent 1: 'USVHA', subcomponent 3: 'L'
							Component 5: Type 'NI'
4	12	ST				Alternate Patient ID	Not used
5	48	PN	R			Patient Name	Name
6	30	ST				Mother's Maiden Name	Not used
7	26	TS				Date of Birth	Date of birth
8	1	ID			0001	Sex	Not used
9	48	PN		Y		Patient Alias	Not used
10	1	ID			0005	Race	Not used
11	106	AD		Y		Patient Address	Not used

Table 68: PID – Patient Idenfification Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
12	4	ID				County Code	Not used
13	40	TN		Y		Phone Number – Home	Not used
14	40	TN		Y		Phone Number – Business	Not used
15	25	ST				Language – Patient	Not used
16	1	ID			0002	Marital Status	Not used
17	3	ID			0006	Religion	Not used
18	20	СК				Patient Account Number	Not used
19	16	ST				SSN Number – Patient	Social security number and pseudo indicator.
20	25	СМ				Driver's Lic Num – Patient	Not used
21	20	СК				Mother's Identifier	Not used
22	1	ID			0189	Ethnic Group	Not used
23	25	ST				Birth Place	Not used
24	2	ID				Multiple Birth Indicator	Not used
25	2	NM				Birth Order	Not used
26	3	ID		Y	0171	Citizenship	Not used
27	60	CE			0172	Veterans Military Status	Not used

# 18.4.7 ORC-Common Order Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	2	ID	R		0119	Order Control	Refer to Table 0119
2	22	EI	С			Placer Order Number	Not used
3	22	EI	С			Filler Order Number	Not used
4	22	EI				Placer Group Number	Not used
5	2	ID			0038	Order Status	Not used
6	1	ID			0121	Response Flag	Not used
7	200	TQ				Quantity/timing	Not used
8	200	СМ				Parent	Not used
9	26	ΤS				Date/Time of Transaction	Not used
10	120	XCN				Entered By	Not used
11	120	XCN				Verified By	Not used
12	120	XCN				Ordering Provider	Not used
13	80	PL				Enterer's Location	Not used
14	40	XTN		Y/2		Call Back Phone Number	Not used
15	26	тs				Order Effective Date/Time	Not used
16	200	CE				Order Control Code Reason	Not used
17	60	CE				Entering Organization	Not used
18	60	CE				Entering Device	Not used
19	120	XCN				Action By	Not used

Table 69: ORC – Common Order Segment

#### 18.4.8 RQD-Requisition Detail Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	4	SI				Requisition Line Number	Always set to "1"
2	60	CE	С			Item Code – Internal	Not used
3	60	CE	С			Item Code – External	NCMD Card ID (.01) field from VIC REQUEST (#39.6) file.
4	60	CE	С			Hospital Item Code	Not used
5	6	NM				Requisition Quantity	Not used
6	60	CE				Requisition Unit of Measure	Not used
7	30	IS			0319	Dept. Cost Center	Not used
8	30	IS			0320	Item Natural Account Code	Not used
9	60	CE				Deliver to ID	Not used
10	8	DT				Date Needed	Not used

Table 70: RQD – Requisition Detail Segment

### 18.4.9 NTE – Notes and Comments

Table 71: NT	FE – Notes and	Comments
--------------	----------------	----------

Table 71: NTE – Notes and Comments							
SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	4	SI	0			Set ID	Not used
2	8	ID	0		105	Source of Comment	Not used
3	6553 6	FT	Ο	Y		Comment	1 <sup>st</sup> repetition: String "POW:" followed by single character Prisoner Of War indicator calculated from the PATIENT ELIGIBILITIES (#361) field of the PATIENT (#2) file and the current enrollment status derived from the supported call \$\$STATUS^DGENA.
							Example: <b>POW:Y</b> 2 <sup>nd</sup> repetition: String "PH:" followed by single character Purple Heart indicator calculated from CURRENT PH INDICATOR (#.531) and CURRENT PURPLE HEART STATUS (#.532) fields of the PATIENT (#2) file. Example: <b>PH:N</b>
4	250	CE	0		364	Comment Type	Not used

#### **18.5 Trigger Events and Message Definitions**

Each triggering event is listed below along with the applicable form of the message to be exchanged. The notation used to describe the sequence, option, and repetition of segments is described in the HL7 V. 2.4 Standard Specification Manual, Chapter 2, and in summary form, in Section 2.1 of this document.

#### 18.6 ORM - General Order Message (event O01)

ORM~O01 message to be sent to the NCMD

- ORM Order Message Section
- MSH Message Header
- PID Patient Identification
- ORC Common Order
- RQD Requisition Detail
- NTE Notes and Comments

#### SAMPLE MESSAGE

```
MSH^~|\&^VIC NCMD SEND^500~FO-ALBANY.MED.VA.GOV~DNS^VIC NCMD
RECV^NCMD^20031008144616-0400^^ORM~O01^50018835^P^2.4^^NE^AL^USA
PID^1^222-33-4444~~1001178082V735077~~USVHA&&L~NI^DOE~JOHN^^
19500404^^^^^^22233444
ORC^RL
RQD^1^^22233444-DOE-1
NTE^^POW:N|PH:Y
```

# 18.7 ORR – General Order Response Message response to any ORM (event O02)

Upon receipt of a VIC Card request order message, the NCMD will respond with an ORR~O02 message.

ORR Order Response Message

MSH Message Header

MSA Message Acknowledgment

#### SAMPLE MESSAGES

General Order Response (ORR~O02) message when the General Order Message (ORM~O01) is successful.

```
MSH^~|\&^VIC NCMD RECV^NCMD^VIC NCMD SEND^500~FO-
ALBANY.MED.VA.GOV~DNS^20031008144616-
0400^^ORR~002^782218835^P^2.4^^^NE^AL^USA
MSA^AA^50018835
```

General Order Response (ORR~O02) message when the General Order Message (ORM~O01) fails.

```
MSH^~|\&^VIC NCMD RECV^NCMD^VIC NCMD SEND^500~FO-
ALBANY.MED.VA.GOV~DNS^20031008144616-
0400^^ORR~002^782218835^P^2.4^^^NE^AL^USA
```

MSA^AE^50018835^CardID not on file

VALUE

#### **18.8 Supported and User Defined HL7 Tables**

#### Table 0003 - Event Type Code 18.8.1

DESCRIPTION

VALUE	DESCRIPTION
O01	ORM – Order Message
O02	ORR – Order Response
18.8.2	Table 0008 – Acknowledgment Code
VALUE	DESCRIPTION
AA	Original mode: Application Accept
	Enhanced mode: Application acknowledgment: Accept
AE	Original mode: Application Error
	Enhanced mode: Application acknowledgment: Error
AR	Original mode: Application Reject
	Enhanced mode: Application acknowledgment: Reject
CA	Enhanced mode: Accept acknowledgment: Commit Accept
CE	Enhanced mode: Accept acknowledgment: Commit Error
CR	Enhanced mode: Accept acknowledgment: Commit Reject
18.8.3	Table 0076 - Message Type

#### 10.0.3 · messaye i ype

```
ORM
           Order Message
```

ORR Order Acknowledgment Message

### 18.8.4 Table 0119 – Order Control Codes

- VALUE DESCRIPTION
- RL Release Previous Hold
- CA Cancel Order Request

# 19 HL7 GENERIC PID, EVN, PV1 SEGMENT BUILDER ESTABLISHED BY MPI

This section describes functionality that can be used by other applications to dynamically build fully populated PID, EVN, and PV1 segments for use in communicating to and from VistA and/or HeV VistA.

This document specifies the information needed by applications to utilize the generic HL7 v2.4 segment builders. In order for applications to utilize this functionality they must first subscribe to the Integration Agreement #3630 described below.

For more information about the specific data elements included in these segments, see the MPI HL7 v2.4 Interface Specification on the VDL at the following address:

http://www.va.gov/vdl/documents/Infrastructure/Master\_Patient\_Index\_(MPI)

# **19.1 Integration Agreement (IA) #3630**

This Integration Agreement consists of three Health Level 7 (HL7), Version 2.4 segment builders in the form of the following APIs:

- BLDEVN^VAFCQRY
- BLDPD1^VAFCQRY
- BLDPID^VAFCQRY

These generic segment builders can be used to build Version 2.4 HL7 PID, EVN and PD1 segments.

# 19.1.1 Custodial Package

REGISTRATION has the following Subscribing Packages

- MASTER PATIENT INDEX VISTA
- CLINICAL INFO RESOURCE NETWORK
- OUTPATIENT PHARMACY
- CLINICAL PROCEDURES
- PHARMACY BENEFITS MANAGEMENT
- RADIOLOGY/NUCLEAR MEDICINE
- GEN. MED. REC. VITALS
- ADVERSE REACTION TRACKING
- LAB SERVICE
- CLINICAL CASE REGISTRIES

#### 19.2 API: BLDEVN^VAFCQRY

Description: The entry point builds the EVN segment via version 2.4 including the Treating Facility last treatment date and event reason.

Format BLDEVN^VAFCQRY

#### INPUT VARIABLES

DFN:	Internal Entry Number of the patient in the PATIENT file (#2).
SEQ: to	Variable consisting of sequence numbers delimited by commas that will be used
	build the message.
EVN:	(Passed by reference). This is the array location to place EVN segment result.
	The array can have existing values when passed.
HL:	Array that contains the necessary HL variables (init^hlsub).
EVR :	Event reason that triggered this message.
ERR:	Array used to return an error.

### 19.3 API: BLDPD1^VAFCQRY

Description: This entry point will build the version 2.4 PD1 segment.

Format BLDPD1^VAFCQRY

#### INPUT VARIABLES

DFN:	Internal Entry Number of the patient in the PATIENT file (#2).

- SEQ: Variable consisting of sequence numbers delimited by commas that will be used to build the message.
- PD1: (Passed by reference). Array location to place PD1 segment result. The array can have existing values when passed.
- HL: Array that contains the necessary HL variables (init^hlsub).

ERR: Array used to return an error.

#### 19.4 API: BLDPID^VAFCQRY

Description: This entry point will build the version 2.4 PID segment.

Format

BLDPID^VAFCQRY

#### INPUT VARIABLES

- DFN: Internal Entry Number of the patient in the PATIENT file (#2).
- CNT: The value to be place in PID seq#1 (SET ID).

SEQ: Variable consisting of sequence numbers delimited by commas that will be used to build the message.

"ALL" can be passed to get all available fields in the PID Segment that are available. This is the default.

- PID: (Passed by reference). The array location to place PID segment result, the array can have existing values when passed.
- HL: Array that contains the necessary HL variables (init^hlsub).
- ERR: Array used to return an error.

# 20 HL7 Interface Specification for Home Telehealth (HTH)

The Home Telehealth application is in support of the Care Coordination Program that involves the use of Home Telehealth technologies. Home Telehealth helps the Veterans Health Administration (VHA) by 836creating a framework for optimizing the overall development and implementation of Telemedicine in VHA.

This document specifies the information needed for activation and inactivation of Home Telehealth patients with their perspective HTH vendors.

This application will use the abstract message approach and encoding rules specified by HL7. HL7 is used for communicating data associated with various events which occur in health care environments.

The formats of these messages conform to the Version 2.4 HL7 Interface Standards.

# 20.1 Assumptions

The transmission of HTH registration/inactivation requests from VistA to the HTH vendors assumes the following.

- All VistA sites will have installed VistA HL7 software and it is operational.
- The associated VistA Consult Patch GMRC\*3\*42 has been installed and HTH consults activated.

# 20.2 Message Content

The data sent in the HL7 messages will be limited to the information that is required to uniquely identify the patient and requested by the HTH vendors. The data transmitted will be recorded and available in VistA.

# 20.3 Data Capture and Transmission

The following event trigger will generate a Register a Patient (Event A04).

- Provider evaluates patient and refers patient for HTH care by submitting a consult request. A pending consult request goes to the HTH Care Coordinator and verifies eligibility. A registration request is submitted to HTH vendor by using Patient Sign-Up/Activation [DGHT PATIENT SIGNUP] menu option.
- The protocol DG HOME TELEHEALTH ADT-A04 CLIENT in PROTOCOL file (#101) is used for the Patient Sign-Up/Activation process.
- The entry DG HOME TELEHEALTH in the HL7 APPLICATION PARAMETER file (#771) is used for processing outgoing HL7 messages from the Home Telehealth vendors.
- The entry HTAPPL in the HL7 APPLICATION PARAMETER file (#771) is used for processing incoming HL7 messages from the Home Telehealth vendors.

The following entries in the HL LOGICAL LINK file (#870) facilitate the transmission of Home Telehealth patient data to Home Telehealth vendor server system via the Austin Interface.

- DG HT AMD
- DG HT ATI
- DG HT HH
- DG HT VIT
- DG HT VN
- DG HTH

The mail group DGHTERR generates mail messages for any transmission rejects received from the vendor server.

The following event trigger will generate an inactivation of a Patient (Event A03).

- HTH Care Coordinator determines patient care is now complete. An inactivation request is submitted to HTH vendor Patient Inactivation [DGHT PATIENT INACTIVATION] menu option.
- The protocol DG HOME TELEHEALTH ADT-A03 CLIENT in the PROTOCOL file (#101) is used for the Patient Inactivation process.
- The entry DG HOME TELEHEALTH in the HL7 APPLICATION PARAMETER file (#771) is used for processing outgoing HL7 messages from the Home Telehealth vendors.
- The entry HTAPPL in the HL7 APPLICATION PARAMETER file (#771) is used for processing incoming HL7 messages from the Home Telehealth vendors.

The following entries in the HL LOGICAL LINK file (#870) facilitate the transmission of Home Telehealth patient data to Home Telehealth vendor server system via the Austin Interface.

- DG HT AMD
- DG HT ATI
- DG HT HH
- DG HT VIT
- DG HT VN
- DG HTH

The mail group DGHTERR generates mail messages for any transmission rejects received from the vendor server.

Note: Any modification made to the VistA database in non-standard ways, such as a direct global set by an application or by MUMPS code, will not be processed appropriately.

# 21 VA TCP/IP Lower Level Protocol

The HL7 V. 1.6 TCP/IP lower level protocol (LLP) will be used which implements the HL7 Minimal Lower Layer Protocol (MLLP) referenced in section C.4 of Appendix C of the Health Level 7 Implementation Guide (v2.4).

# 21.1 HL7 CONTROL SEGMENTS

This section defines the HL7 control segments supported by VistA. The messages are presented separately and defined by category. Segments are also described. The messages are presented in the Message Control category.

# 21.2 Message Definitions

From the VistA perspective, all incoming or outgoing messages are handled or generated based on an event.

In this section and the following sections, the following elements will be defined for each message.

- Trigger events
- Message event code
- List of segments used in the message
- List of fields for each segment in the message

Each message is composed of segments. Segments contain logical groupings of data. Segments may be optional or repeatable. A [] indicates the segment is optional, the {} indicates the segment is repeatable. For each message category, there will be a list of HL7 standard segments used for the message.

# 21.3 Segment Table Definitions

For each segment, the data elements are described in table format. The table includes the sequence number (SEQ), maximum length (LEN), data type (DT), required or optional (R/O), repeatable (RP/#), the table number (TBL#), the element name, and the VistA description. Each segment is described in the following sections.

## 21.4 Message Control Segments

This section describes the message control segments that are contained in message types described in this document. These are generic descriptions. Any time any of the segments described in this section are included in a message in this document, the VistA descriptions and mappings will be as specified here unless otherwise specified in that section.

#### MSH - MESSAGE HEADER SEGMENT

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	1	ST	R			Field Separator	Recommended value is ^ (caret)
2	4	ST	R			Encoding Characters	Recommended delimiter values:
							Component = ~ (tilde)
							Repeat =   (bar)
							Escape = \ (back slash)
							Sub-component = & (ampersand)
3	15	ST				Sending Application	Name field of HL7 Application Parameter file.
4	20	ST				Sending Facility	Sending station's facility number from Institution field of HL7 Communication Parameters file.
5	30	ST				Receiving Application	Name field of HL7 Application Parameter file.
6	30	ST				Receiving Facility	Receiving station's facility number from Institution field of HL Logical Link file.
7	26	ΤS				Date/Time Of Message	Date and time message was created.

Table 72: MSH – Message Header Segment

8	40	ST				Security	Not used
9	7	СМ	R		0076 0003	Message Type	2 Components Refer to Table 0076 Refer to Table 0003
10	20	ST	R			Message Control ID	Automatically generated by VISTA HL7 Package.
11	1	ID	R		0103	Processing ID	P (production)
12	8	ID	R		0104	Version ID	Version ID field of event protocol in Protocol file.
13	15	NM				Sequence Number	Not used
14	180	ST				Continuation Pointer	Not used
15	2	ID			0155	Accept Acknowledgment Type	NE (never acknowledge)
16	2	ID			0155	Application Acknowledgment Type	AL (always acknowledge)
17	2	ID				Country Code	USA
18	6	ID		Y/3	0211	Character Set	Not used
19	60	CE				Principal Language of Message	Not used

#### **EVN – EVENT TYPE SEGMENT**

Table 73: EVN – Event	Type Segment
-----------------------	--------------

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	1	ST	R			Field Separator	Recommended value is ^ (caret)
2	4	ST	R				Recommended delimiter values: Component = ~ (tilde)

						Repeat =   (bar)
						Escape = \ (back slash)
						Sub-component = & (ampersand)
3	15	ST			Sending Application	Name field of HL7 Application Parameter file.
4	20	ST			Sending Facility	Sending station's facility number from Institution field of HL7 Communication Parameters file.
5	30	ST			Receiving Application	Name field of HL7 Application Parameter file.
6	30	ST			Receiving Facility	Receiving station's facility number from Institution field of HL Logical Link file.
7	26	ΤS			Date/Time Of Message	Date and time message was created.
8	40	ST			Security	Not used
9	7	СМ	R	0076 0003	Message Type	2 Components Refer to Table 0076 Refer to Table 0003
10	20	ST	R		Message Control ID	Automatically generated by VISTA HL7 Package.
11	1	ID	R	0103	Processing ID	P (production)
12	8	ID	R	0104	Version ID	Version ID field of event protocol in Protocol file.
13	15	NM			Sequence Number	Not used
14	180	ST			Continuation Pointer	Not used

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15	2	ID		0155	Accept Acknowledgment Type	NE (never acknowledge)
16	2	ID		0155	Application Acknowledgment Type	AL (always acknowledge)
17	2	ID			Country Code	USA
18	6	ID	Y/3	0211	Character Set	Not used
19	60	CE			Principal Language of Message	Not used

#### PID - PATIENT IDENTIFICATION SEGMENT

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	4	SI				Set ID - Patient ID	Always set to '1'
2	20	СК				Patient ID (External ID)	Social Security Number field of Patient file.
3	20	СМ	R	Y		Patient ID (Internal ID)	Integrated Control Number (ICN) field of Patient file.
							Component 1: ICN w/checksum
							Component 2: DFN
							Component 3: Null
							Component 4: Assigning authority (subcomponent 1: 'USVHA', subcomponent 3: 'L'
							Component 5: Type 'NI'
4	12	ST				Alternate Patient ID	Not used
5	48	PN	R			Patient Name	Name
6	30	ST				Mother's Maiden Name	Not used
7	26	TS				Date of Birth	Date of birth
8	1	ID			0001	Sex	Not used
9	48	PN		Y		Patient Alias	Not used
10	1	ID			0005	Race	Not used
11	106	AD		Y		Patient Address	Home Address
12	4	ID				County Code	Not used
13	40	TN		Y		Phone Number – Home	Home Phone Validated

 Table 74: PID – Patient Identification Segment

14	40	TN	Y		Phone Number – Business	Not used
15	25	ST			Language – Patient	Not used
16	1	ID		0002	Marital Status	Not used
17	3	ID		0006	Religion	Not used
18	20	СК			Patient Account Number	Not used
19	16	ST			SSN Number – Patient	Social security number and pseudo indicator.
20	25	СМ			Driver's Lic Num – Patient	Not used
21	20	СК			Mother's Identifier	Not used
22	1	ID		0189	Ethnic Group	Not used
23	25	ST			Birth Place	Not used
24	2	ID			Multiple Birth Indicator	Not used
25	2	NM			Birth Order	Not used
26	3	ID	Y	0171	Citizenship	Not used
27	60	CE		0172	Veterans Military Status	Not used

#### PD1 - PATIENT ADDITIONAL DEMOGRAPHIC SEGMENT

SE Q	LE N	DT	OP T	RP/ #	TBL#	ITEM#	ELEMENT NAME
1	2	IS	0	Y	0223	00755	Living Dependency
2	2	IS	0		0220	00742	Living Arrangement

3	250	XO N	0	Y		00756	Patient Primary Facility
4	250	XC N	В	Y		00757	Patient Primary Care Provider Name & ID No.
5	2	IS	0		0231	00745	Student Indicator
6	2	IS	0		0295	00753	Handicap
7	2	IS	0		0315	00759	Living Will Code
8	2	IS	0		0316	00760	Organ Donor Code
9	1	ID	0		0136	00761	Separate Bill
10	250	СХ	0	Y		00762	Duplicate Patient
11	250	CE	0		0215	00743	Publicity Code
12	1	ID	0		0136	00744	Protection Indicator
13	8	DT	0			01566	Protection Indicator Effective Date
14	250	XO N	0	Y		01567	Place of Worship
15	250	CE	0	Y	0435	01568	Advance Directive Code
16	1	IS	0		0441	01569	Immunization Registry Status
17	8	DT	0			01570	Immunization Registry Status Effective Date
18	8	DT	0			01571	Publicity Code Effective Date
19	5	IS	0		0140	01572	Military Branch
20	2	IS	0		0141	00486	Military Rank/Grade
21	3	IS	0		0142	01573	Military Status

#### **PV1 PATIENT VISIT SEGMENT**

#### Table 76: PVI Patient Visit Segment

SEQ	LE N	DT	OP T	RP/ #	TBL#	ITEM#	ELEMENT NAME
1	4	SI	0			00131	Set ID - PV1
2	1	IS	R		0004	00132	Patient Class
3	80	PL	0			00133	Assigned Patient Location
4	2	IS	0		0007	00134	Admission Type
5	250	СХ	0			00135	Preadmit Number
6	80	PL	0			00136	Prior Patient Location
7	250	XC N	0	Y	0010	00137	Attending Doctor
8	250	XC N	0	Y	0010	00138	Referring Doctor
9	250	XC N	В	Y	0010	00139	Consulting Doctor
10	3	IS	0		0069	00140	Hospital Service
11	80	PL	0			00141	Temporary Location
12	2	IS	0		0087	00142	Preadmit Test Indicator
13	2	IS	0		0092	00143	Re-admission Indicator
14	6	IS	0		0023	00144	Admit Source
15	2	IS	0	Y	0009	00145	Ambulatory Status
16	2	IS	0		0099	00146	VIP Indicator
17	250	XC N	0	Y	0010	00147	Admitting Doctor
18	2	IS	0		0018	00148	Patient Type

SEQ	LE N	DT	OP T	RP/ #	TBL#	ITEM#	ELEMENT NAME
19	250	СХ	0			00149	Visit Number
20	50	FC	0	Y	0064	00150	Financial Class
21	2	IS	0		0032	00151	Charge Price Indicator
22	2	IS	0		0045	00152	Courtesy Code
23	2	IS	0		0046	00153	Credit Rating
24	2	IS	0	Y	0044	00154	Contract Code
25	8	DT	0	Y		00155	Contract Effective Date
26	12	NM	0	Y		00156	Contract Amount
27	3	NM	0	Y		00157	Contract Period
28	2	IS	0		0073	00158	Interest Code
29	4	IS	0		0110	00159	Transfer to Bad Debt Code
30	8	DT	0			00160	Transfer to Bad Debt Date
31	10	IS	0		0021	00161	Bad Debt Agency Code
32	12	NM	0			00162	Bad Debt Transfer Amount
33	12	NM	0			00163	Bad Debt Recovery Amount
34	1	IS	0		0111	00164	Delete Account Indicator
35	8	DT	0			00165	Delete Account Date
36	3	IS	0		0112	00166	Discharge Disposition
37	47	DL D	0		0113	00167	Discharged to Location
38	250	CE	0		0114	00168	Diet Type
39	2	IS	0		0115	00169	Servicing Facility
40	1	IS	В		0116	00170	Bed Status

PIMS

SEQ	LE N	DT	OP T	RP/ #	TBL#	ITEM#	ELEMENT NAME
41	2	IS	0		0117	00171	Account Status
42	80	PL	0			00172	Pending Location
43	80	PL	0			00173	Prior Temporary Location
44	26	TS	0			00174	Admit Date/Time
45	26	TS	0	Y		00175	Discharge Date/Time
46	12	NM	0			00176	Current Patient Balance
47	12	NM	0			00177	Total Charges
48	12	NM	0			00178	Total Adjustments
49	12	NM	0			00179	Total Payments
50	250	СХ	0		0203	00180	Alternate Visit ID
51	1	IS	0		0326	01226	Visit Indicator
52	250	XC N	В	Y	0010	01274	Other Healthcare Provider

#### MSA – MESSAGE ACKNOWLEDGEMENT SEGMENT

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VistA DESCRIPTION
1	2	ID	R		8000	Acknowledgment Code	Refer to HL7 table 0008
2	20	ST	R			Message Control ID	Message Control ID of the message being acknowledged.
3	80	ST	0			Text Message	Free text error message
4	15	NM	0			Expected Sequence Number	Not used
5	1	ID	В		0102	Delayed Acknowledgment Type	Not used
6	100	CE	0			Error Condition	Not used

Table 77: MSA – Message	Acknowledgement Segment
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# 22 Appendix A: Demographics Domain Native Domain Standardization (NDS)

Error! Reference source not found.Error! Reference source not found.Error! Reference source not found.**Introduction:** This appendix provides a brief description of the new features and functions of the Demographics Domain Native Domain Standardization project. This project consists of multiple patches, which must be installed for the functionality to perform.

The Collaborative Terminology Tooling and Data Management (CTT & DM) Native Domain Standardization (NDS) Demographics Domain project supports the effort to standardize the following VistA Files: Race (#10), Marital Status (#11), and the Religion (#13) in a native format within the existing Veterans Health Information Systems Technology Architecture (VistA). Demographics data is generated in the PATIENT file (#2) in VistA, which is part of the Registration package. This file includes 469 fields, 88 forward pointers, 357 backward pointers, 28 sub-files, and eight computed fields.

Standardization of the VistA Race (#10), Marital Status (#11), and Religion (#13) files facilitate the broad exchange of health information, which will ultimately contribute to improved patient safety, healthcare quality, and efficiency. Mapping tables will serve as an interim solution to achieving VA's ultimate goal of providing VA and its partner institutions with applications that can be used natively without the need for mapping tables. The use of a standard terminology will also facilitate the ability to provide more automated decision support for patient care. Because the Demographics Domain contributes a substantial amount of valuable clinical data, the importance of having this data in a standard, structured, easily mineable format is imperative.

This product shall run on standard hardware platforms used by the Department of Veterans Affairs (VA) Healthcare facilities.

## 22.1 New Functionality

The added functional components are:

- The system will include one new field that will incorporate code data from their respective Standards Development Organizations (SDO) to the Race (#10), Marital Status (#11), and Religion (#13) files. These new fields will be set as a multiple in order to accommodate the potential need to store multiple codes to define a given term.
- The system will include three new files that will incorporate code data from the respective Standards Development Organizations (SDO) for race (RACE MASTER file #10.99), marital status (MASTER MARITAL STATUS file #11.99), and religion (MASTER RELIGION file #13.99).
- The system will include new VistA menu options to provide a method of interactively associating local race, marital status, and religion file entries to the corresponding master file if they have not already been associated via the Master File Server (MFS).
- The system will include new VistA reports to list the local race, marital status, and religion files' associations to the corresponding master file.
- The entirety of the work within the scope of this effort will have no impact on Graphic User Interfaces (GUI) within the VA network, and will not impact the work-flow of clinicians.

Refer to the following CTT &DM NDS documents for additional information:

Collaborative Terminology Tooling & Data Management Demographics Compendium V5.0, November 2016

Collaborative Terminology Development Tooling Business Requirements Document (BRD)

DoD/VA Interagency Program Office (IPO), Healthcare Information Interoperability Technical Package (I2TP), Version 6.0, DRAFT, August 2016

## 22.2 Options and Build Components

This patch implements Demographics domain changes required by the Collaborative Terminology Tooling & Data Management (CTT & DM) Native Domain Standardization (NDS) project. This patch adds the following new 'Master' files containing standard sets of concepts from the Health Level Seven (HL7) Standards Development Organization (SDO):

RACE MASTER (#10.99) MASTER MARITAL STATUS (#11.99) MASTER RELIGION (#13.99).

New fields have also been added to the RACE (#10), MARITAL STATUS (#11), and RELIGION (#13) files pointing to the corresponding master file for the purpose of interoperability, by allowing each VA concept (Race, Marital Status, Religion) to be associated with a standard, interoperable, concept.

The RACE MASTER (#10.99), MASTER MARITAL STATUS (#11.99), and MASTER RELIGION (#13.99) files have been 'locked down' to prevent local changes to the contents of the file; as each of these files contain entries representing the sets of concept names and codes from the respective Standards Development Organizations, and a VA Unique Identifier (VUID) identifying the standard SDO concept across the VHA enterprise.

The new Master File Association [DGMF AMAIN] and Master File Reports [DGMF RMAIN] VistA menu options are accessible via the following menu path:

Supervisor ADT Menu [DG SUPERVISOR MENU] ADT System Definition Menu [DG SYSTEM DEFINITION MENU] Master Demographics Files [DGMF MENU] Master File Association Enter/Edit [DGMF AMAIN] Master File Reports [DGMF RMAIN] PIMS

Patch Components:					
Files & Fields Associated:					
	Field Name (Number)				
RACE (#10)	RACE MASTER (#90)	New			
RACE MASTER (#10.99)	REPLACED BY VHA STANDARD TERM (#99.97)	New			
RACE MASTER (#10.99)	MASTER ENTRY FOR VUID (#99.98	) New			
RACE MASTER (#10.99)	VUID (#99.99)	New			
RACE MASTER (#10.99)	EFFECTIVE DATE/TIME (#99.991)	New			
EFFECTIVE DATE/TIME	EFFECTIVE DATE/TIME (#.01)	New			
(sub-file #10.9901)					
EFFECTIVE DATE/TIME	STATUS (.02)	New			
(sub-file #10.9901)					
MARITAL STATUS (#11)	MASTER MARITAL STATUS (#90)	New			
MASTER MARITAL STATUS	REPLACED BY VHA STANDARD	New			
(#11.99)	TERM (#99.97)				
MASTER MARITAL STATUS	MASTER ENTRY FOR VUID (#99.98	) New			
(#11.99)					
MASTER MARITAL STATUS	VUID (#99.99)	New			
(#11.99)					
MASTER MARITAL STATUS	EFFECTIVE DATE/TIME (#99.991)	New			
(#11.99)					
EFFECTIVE DATE/TIME	EFFECTIVE DATE/TIME (#.01)	New			
(sub-file #11.9901)					
EFFECTIVE DATE/TIME	STATUS (.02)	New			
(sub-file #11.9901)					
RELIGION (#13)	MASTER RELIGION (#13.99)	New			
MASTER RELIGION	REPLACED BY VHA STANDARD	New			

(#13.99)	TERM (#99.97)	
MASTER RELIGION	MASTER ENTRY FOR VUID (#99.98)	New
(#13.99)		
MASTER RELIGION	VUID (#99.99)	New
(#13.99)		
RELIGION (#13)	EFFECTIVE DATE/TIME (#99.991)	New
(#13.99)		
EFFECTIVE DATE/TIME	EFFECTIVE DATE/TIME (#.01)	New
(sub-file #13.9901)		
EFFECTIVE DATE/TIME	STATUS (.01)	New
(sub-file #13.9901)		

#### 22.3 Modified and New Routines

#### **Routine Information:**

r

The second line of each of these routines now looks like:

;;5.3;Registration;\*\*[Patch List]\*\*;Aug 13, 1993;Build 33

The checksums below are new checksums, and can be checked with CHECK1^XTSUMBLD.

Routine Name:	DG933PO	
Before:	n/a	After: B27885525 **933**
Routine Name:	DGMFA10	
Before:	n/a	After: B14104060 **933**
Routine Name:	DGMFA11	
Before:	n/a	After: B14590448 **933**
Routine Name:	DGMFA13	
Before:	n/a	After: B13906961 **933**
Routine Name:	DGMFASS	
Before:	n/a	After: B3776607 **933**
Routine Name:	DGMFR10	
Before:	n/a	After: B72687376 **933**
Routine Name:	DGMFR11	
Before:	n/a	After: B68721321 **933**
Routine Name:	DGMFR13	
Before:	n/a	After: B62970443 **933**
Routine Name:	DGMFRPT	
Before:	n/a	After: B3969553 **933**

Routine Name: DGNDSU Before: n/a After: B33380048 \*\*933\*\* Routine Name: DGZRT Before: n/a After: B36061811 \*\*933\*\*

# 23 Glossary

Also please refer to the following sites.

OI Master Glossary:

http://vaww.oed.wss.va.gov/process/Library/master\_glossary/masterglossary.htm

National Acronym Directory: http://vaww1.va.gov/Acronyms/

ADD-ONS	Patients who have been scheduled for a visit after routing slips for a particular date have been printed.
ALOS	Average Length of Stay
AMIS	Automated Management Information System
ANCILLARY	A test added to an existing appointment (i.e. lab, x-ray, EKG) test
API	Application Program Interface
BILLINGS	Bills sent to veteran
BRD	Business Requirements Document
CLINIC PULL LIST	A list of patients whose radiology/MAS records should be pulled from the file room for use in conjunction with scheduled clinic visits
COLLATERAL	A visit by a non-veteran patient whose appointment is related to or visit associated with a service-connected patient's treatment.
Computerized Patient Record System (CPRS)	An integrated, comprehensive suite of clinical applications in VistA that work together to create a longitudinal view of the veteran's Electronic Medical Record (EMR). CPRS capabilities include a Real Time Order Checking System, a Notification System to alert clinicians of clinically significant events, Consult/Request tracking and a Clinical Reminder System. CPRS provides access to most components of the patient chart.
CPRS	Computerized Patient Record System
СРТ	Current Procedural Terminology
CR	Clinical Reminders
DBIA	Database Integration Agreement
DRG	Diagnostic Related Group
GMTS	Health Summary namespace

GUI	Graphic User Interface
HL7	Health Level Seven
ICR	Integration Control Reference
IRT	Incomplete Records Tracking
IVMH	Improve Veteran Mental Health
MEANS TEST	A financial report upon which certain patients' eligibility for care is based
Mental Health Treatment Coordinator (MHTC)	The liaison between the patient and the mental health system at a VA site. There is only one Mental Health treatment coordinator per patient and they are the key coordinator for behavioral health services care.
	For more information about the MH treatment coordinator's responsibilities, see VHA Handbook 1160.1, "Uniform Mental Health Services in VA Medical Centers for Clinics," page 3-4. Note: In the handbook, the MHTC is called the Principal Mental Health Provider.
МН	Mental Health
МНАЗ	Mental Health Assistant 3 package
МНТС	Mental Health Treatment Coordinator
NO SHOW	A person who did not report for a scheduled clinic visit without prior notification to the medical center.
NON-COUNT	A clinic whose visits do not affect AMIS statistics.
NSR	New Service Request
OE/RR	Order Entry/Results Reporting
OPC	Outpatient Clinic
OR	CPRS Order Entry/Results Reporting namespace
PAF	Patient Assessment File; where PAI information is stored until transmission to Austin.
PAI	Patient Assessment Instrument

PCE	Patient Care Encounter
PCMM	Primary Care Management Module
PRF	Patient Record Flag
Principal Mental Health Provider (PMHP)	See MH Treatment Coordinator (MHTC)
PTF	Patient Treatment File
PULL LIST	A list of patients whose radiology/PIMS records should be "pulled" from the file room for scheduled clinic visits
PX	Patient Care Encounter namespace
PXRM	Clinical Reminders package namespace
RAM	Resource Allocation Methodology
Reminder Definitions	These are pre-defined sets of findings that are used to identify patient cohorts and reminder resolutions. The reminder is used for patient care and/or report extracts.
Reminder Dialogs	These are pre-defined sets of text and findings that provide information to the CPRS GUI for collecting and updating appropriate findings while building a progress note.
Reminder Terms	Terms are used to map local findings to national findings, providing a method to standardize the findings for national use. These are also used for local grouping of findings for easier reference in reminders and are defined in the Reminder Terms file.
ROUTING SLIP	When printed for a specified date, it shows the current appointment time, clinic, location, and stop code. It also shows future appointments.
RPC	Remote Procedure Calls
RSD	Requirements Specification Document
RUG	Resource Utilization Group
SBR	Suicide Behavior Report

SHARING AGREEMENT	Agreement or contract under which patients from other government agencies or private facilities are treated.
SME	Subject Matter Expert
SPECIAL SURVEY	An ongoing survey of care given to patients alleging Agent Orange or Ionizing Radiation exposure. Each visit by such patients must receive "special survey dispositioning" which records whether treatment provided was related to their exposure. This data is used for Congressional reporting purposes.
STOP CODE	A three-digit number corresponding to an additional stop/service a patient received in conjunction with a clinic visit.
	Stop code entries are used so that medical facilities may receive credit for the services rendered during a patient visit.
THIRD PARTY	Billings where a party other than the patient is billed
TIU	Text Integration Utility namespace
TIU	Text Integration Utility
TSR	Treating Specialty Report
VHA	Veterans Health Administration
VistA	Veterans Information System and Technology Architecture

# 24 Military Time Conversion Table

STANDARD	MILITARY
12:00 MIDNIGHT	2400 HOURS
11:00 PM	2300 HOURS
10:00 PM	2200 HOURS
9:00 PM	2100 HOURS
8:00 PM	2000 HOURS
7:00 PM	1900 HOURS
6:00 PM	1800 HOURS
5:00 PM	1700 HOURS
4:00 PM	1600 HOURS
3:00 PM	1500 HOURS
2:00 PM	1400 HOURS
1:00 PM	1300 HOURS
12:00 NOON	1200 HOURS
11:00 AM	1100 HOURS
10:00 AM	1000 HOURS
9:00 AM	0900 HOURS
8:00 AM	0800 HOURS
7:00 AM	0700 HOURS
6:00 AM	0600 HOURS
5:00 AM	0500 HOURS
4:00 AM	0400 HOURS
3:00 AM	0300 HOURS
2:00 AM	0200 HOURS
1:00 AM	0100 HOURS

# 25 Alphabetical Index of PIMS Terms

ACRP Ad Hoc Report **ACRP** Database Conversion Add / Edit a Holiday Add / Edit Stop Codes Alpha List of Incomplete Encounters Append Ancillary Test to Appt. Appointment Check-in / Check-out **Appointment List Appointment Management Appointment Management Report** Appointment Status Update **Appointment Waiting Time Report** Batch Update Comp Gen Appt Type for C&Ps Call List **Cancel Appointment** Cancel Clinic Availability Cancelled Clinic Report Change Patterns to 30-60 Chart Request **Check Transmitted Outpatient Encounter Files** Check-in / Unsched. Visit Clinic Appointment Availability Report Clinic Assignment Listing Clinic Edit Log Report Clinic Group Maintenance for Reports Clinic List (Day of Week) Clinic Next Available Appt. Monitoring Report **Clinic Profile Clinic Utilization Statistical Summary** Computer Generated Appointment Type Listing Convert Patient File Fields to PCMM

Correct Incomplete Encounters

- Current MAS Release Notes
- Data Transmission Report
- Delete an Ad Hoc Report Template
- Delete Ancillary Test for Appt.
- Discharge from Clinic
- Display Ad Hoc Report Template Parameters
- **Display Appointments**
- Display Clinic Availability Report
- Edit Appointment Type for Add / Edit Encounters
- Edit Clinic Enrollment Data
- Edit Clinic Stop Code Name- Local Entries Only
- Edit Computer Generated Appointment Type
- Edit Outpatient Encounter
- Enc. by DSS ID / DSS ID by Freq. (OP0, OP1, OP2)
- Enc. by IP DSS ID / DSS ID by Freq. (IP0, IP1, IP2)
- Encounter 'Action Required' Report
- **Encounter Activity Report**
- Encounters Transmitted with MT Status of U
- Enrollment Review Date Entry
- Enrollments > X Days
- Enter / Edit Letters
- Error Listing
- File Room List
- Find Next Available Appointment
- Future Appointments for Inpatients
- High Risk MH No-Show Adhoc Report
- High Risk MH No-Show Nightly Report
- Inactivate a Clinic
- Incomplete Encounter Error Report
- Incomplete Encounters by Error Code
- Inpatient Appointment List
- Look Up on Clerk Who Made Appointment

Make Appointment Make Consult Appointment Management Edit Management Report for Ambulatory Procedures Means Test / Eligibility / Enrollment Report Means Test IP Visits & Unique (IP3, IP4, IP5) Means Test Visits & Uniques (OP3, OP4, OP5) Most Frequent 20 IP Practitioner Types (IP8) Most Frequent 20 Practitioner Types (OP8) Most Frequent 50 CPT Codes (OP6) Most Frequent 50 ICD-9-CM Codes (OP7) Most Frequent 50 IP CPT Codes (IP6) Most Frequent 50 IP ICD-9-CM Codes (IP7) Multiple Appointment Booking Multiple Clinic Display / Book Non-Conforming Clinics Stop Code Report No-Show Report **No-Shows Outpatient Diagnosis / Procedure Code Search Outpatient Diagnosis / Procedure Frequency Report Outpatient Encounter Workload Statistics** Patient Activity by Appointment Frequency **Patient Appointment Statistics** Patient Encounter List Patient Profile MAS Performance Monitor Detailed Report Performance Monitor Retransmit Report (AAC) Performance Monitor Summary Report Print Appointment Status Update (Date Range) Print from Ad Hoc Template Print Scheduling Letters Provider / Diagnosis Report Purge Ambulatory Care Reporting files

Purge Appointment Status Update Log File Purge rejections that are past database close-out Purge Scheduling Data Radiology Pull List Reactivate a Clinic Remap Clinic Restore Clinic Availability Retransmit Ambulatory Care Data by Date Range Retransmit Selected Error Code **Retroactive Visits List** Review of Scheduling / PCE / Problem List Data **Routing Slips** SC Veterans Awaiting Appointments Scheduling / PCE Bad Pointer Count Scheduling Parameters Selective Retransmission of NPCDB Rejections Set up a Clinic Sharing Agreement Category Update Stop Code Listing (Computer Generated) Summary Report - IEMM Team / Position Assignment / Re-Assignment Tracking Report **Transmission History for Patient** Transmission History Report - Full Trend of Facility Uniques by 12 Month Date Ranges Veterans Without Activity Since a Specified Date View Appointment Status Update Date (Single Date) Visit Rpt by Transmitted OPT Encounter Visits and Unique IP SSNs by County (IP9) Visits and Unique SSNs by County (OP9) Workd Report

Supplemental