

Patient Information Management System (PIMS) Technical Manual

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



Software Version 5.3

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

Revision History

| Date | Revision | Description | Author |
|------------|----------|--|--|
| 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 90). | D. Sandusky |
| 3/2017 | 0.29 | DG*5.3*903 – Increase Engagement in My HealthVet (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 | Updated for patch DG*5.3*884, ICD-10 PTF Modifications: <ul style="list-style-type: none"> • Updated title page, footers, and made various formatting changes. • Corrected headings in Section 2. • Added new Input Templates to Section 3.3.1. | 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 | SD*5.3*586 – ICD-10 Remediation: <ul style="list-style-type: none"> • Updated Title Page and Revision History. • Updated ICD9 reference to generic ICD (p.12). • Updated the DG1 - Diagnosis Information Segment table (p.200). | 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 |
| 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. | VA OI&T |

| Date | Revision | Description | Author |
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| | | <p>Updated Routines Section new and modified SD routines.</p> <p>Updated Exported Options Section with two new SD and two modified SD options.</p> <p>Updated Callable Routines/Entry Points/Application Program Interfaces Sections with SD routine information.</p> <p>Updated External Relationships Section with the Scheduling Reports required patch information.</p> <p>DG*5.3*849 – DGPF New Cat 1 Flag and Conversion & Supporting Reports patch</p> <p>Updated Implementation and Maintenance Section with PRF NATIONAL FLAG file (#26.15) new entry.</p> <p>Updated Routines Section with new DG routines.</p> <p>Updated Exported Options Section with new Convert Local HRMH PRF to National Action [DGPF LOCAL TO NATIONAL CONVERT] option.</p> <p>Updated Reference Material Section with SD and DG manual releases. Corrected existing reference manuals names.</p> | |
| 12/12/2012 | 0.22 | SD*5.3*589 – Minor updates, Added 404.61: MH PCMM STOP CODES file to file list | VA OI&T |
| 05/18/2012 | 0.21 | Updated API List | VA OI&T |
| 05/18/2012 | 0.20 | <p>Phase I - Patches included in the High Risk Mental Health (HRMH) Project:</p> <p>Patch DG*5.3*836 - HRMH-VISTA CHANGES FOR NATIONAL REMINDER & FLAG. This is a Registration patch containing Patient Record Flag APIs.</p> <p>DGPFAPIH and DGPFAPIU are new routines.</p> <p>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.</p> <p>Added two new Scheduling reports that identify no-show “high risk for suicide” patients that missed their MH appointments.</p> <p>SDMHAD, SDMHAD1, SDMHNS, and SDMHNS1 are new routine.</p> <p>SD MH NO SHOW NIGHTLY BGJ and No Show Nightly Background Job are being added to the</p> | VA OI&T |

| Date | Revision | Description | Author |
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| | | 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 Security Section (FileMan Access Codes). Added DGEN RD UPLOAD AUDIT PURGE background job option. | VA OI&T |
| 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 |

| Date | Revision | Description | Author |
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| 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: <http://vaww1.va.gov/Acronyms/>

Reference Materials

The following manuals are available from the VistA Documentation Library (VDL)

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

Reference Materials Table

| 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 |
| PIMS Scheduling User Manual - Menus, Intro &Orientation, | PIMsSchIntro.PDF | VDL |

| DOCUMENTATION NAME | FILE NAME | LOCATION |
|--|--------------------------------------|--|
| etc. | | 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 non-peak 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 |
|--|--------------------------------------|
| SD MH PROACTIVE DAYS PARAMETERS - 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) |
| SD MH NO SHOW DAYS PARAMETERS - 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) |
| SD MH PROACTIVE DAYS PARAMETER - 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) |
| SD MH NO SHOW DAYS PARAMETER - 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:

Table 3: Patient Record Flag files

| 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^DGPFAP | 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 |

| 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. | |

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* |

| FILE # | TEMPLATE NAME | ROUTINES |
|--------|--------------------------------|----------|
| | DGPM ASIH ADMIT | DGPMXA* |
| 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

Table 7: 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^DGPFAPU - 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^DGPFAPU - 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^DGPFAPU - 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^DGPFAPU - 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 LOCATION 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 1st 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"
- OPTINQ API – Prompt for "Opted in for My HealtheVet Secure Messaging"
- ENROLL API – My HealtheVet Register processing
- 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:

- DGPARG - PREREG subroutine – Updated to display value of the ENABLE MY HEALTHEVET PROMPTS? (#1100.07) field in the MAS PARAMETERS (#43) file.
- DGPARG1 – 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.

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

Table 11: 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, |

| 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* | EMBOSSSED 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, |
| 40.7* | CLINIC STOP | ^DIC(40.7, |

| FILE NUMBER | FILE NAME | GLOBAL |
|-------------|-----------------------------|-------------|
| 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, |
| 45.7 | FACILITY TREATING SPECIALTY | ^DIC(45.7, |

| FILE NUMBER | FILE NAME | GLOBAL |
|-------------|---|----------------|
| 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, |
| 404.42 | PATIENT TEAM ASSIGNMENT | ^SCPT(404.42, |

| FILE NUMBER | FILE NAME | GLOBAL |
|-------------|-------------------------------------|----------------|
| 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 | TEAM | ^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 DEFINITION | ^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, |
| 406.41** | LODGING REASON | ^DG(406.41, |

| FILE NUMBER | FILE NAME | GLOBAL |
|---------------------|--|---------------|
| 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 EXCEPTION | | |
| 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, |
| 409.75 | TRANSMITTED OUTPATIENT ENCOUNTER ERROR | ^SD(409.75, |

| FILE NUMBER | FILE NAME | GLOBAL |
|-------------|----------------------------------|--------------|
| 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 12: 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 (HISTORICAL) | |
| 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 ENCOUNTER | |
| PATIENT | OEPA |
| ORIGINATING PROCESS TYPE | OEOP |
| APPT. TYPE | OEAT |
| STATUS | OEST |
| ELIG. OF ENCOUNTER | PEPW |
| MEANS TEST (HISTORICAL) | PEMH |
| 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) | PCPH |
| 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 13: 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 14: 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 15: 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

Table 16: ADT and Scheduling Module Options

| 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 MODULE | |
| 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 |

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.

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).

Table 17: ^SDMHAD Routine

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

| | |
|--|--|
| 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 | <input type="checkbox"/> Input <input type="checkbox"/> Output Reference <input checked="" type="checkbox"/> Both <input type="checkbox"/> Global Reference <input type="checkbox"/> Local |
| Input Attribute Name and Definition | Name: Definition: |
| Output Attribute Name and Definition | Name: Definition: |
| Current Logic | |
| N/A | |
| Modified Logic (Changes are in bold) | |
| <p>User is asked to choose the date range.</p> <p>User is asked to choose the Divisions in the facility (one, many, `all)</p> <p>User is asked to choose the sort criteria, by clinic, by Mental Health Clinic Quick List, by stop code (one, many, all)</p> <p>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.</p> <p>Check to see if the division/clinic/stop have been selected and if the clinic and stop code are a valid mental health pair. -Set ^TMP("SDNSHOW",\$J with the valid choices</p> <p>Find the patients in the date range that had a no show, no show auto rebook or no action taken appointment for a mental health clinic</p> <p>-Loop through the ^TMP("SDNSHOW",\$J global</p> | |

| | |
|---|----------------|
| Routine Name | ^SDMHAD |
| <p>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</p> <p style="padding-left: 40px;">- If there is a match, set up the global ^TMP("SDNS", SORT (clinic, reminder location or stop code)</p> <p>Call ^SDMHAD1 routine to print the report.</p> | |

^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 18: ^SDMHAD1 Routine

| | | |
|-----------------------------|--|--|
| Routine Name | ^SDMHAD1 | |
| Enhancement Category | <input checked="" type="checkbox"/> New <input type="checkbox"/> Modify <input type="checkbox"/> Delete <input type="checkbox"/> No Change | |
| 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 | ^SDMHAD1 | | | | | | | | |
| Data Dictionary References | ^DIC(40.7 CLINIC STOP ^DPT(PATIENT ^SC(HOSPITAL LOCATION ^TMP(^TMP(\$J ^VA(200 NEW PERSON | | | | | | | | |
| Related Protocols | N/A | | | | | | | | |
| Related Integration Agreements | N/A | | | | | | | | |
| Data Passing | <input type="checkbox"/> Input <input type="checkbox"/> Output Reference <input checked="" type="checkbox"/> Both <input type="checkbox"/> Global Reference <input type="checkbox"/> Local | | | | | | | | |
| Input Attribute Name and Definition | Name: Definition: | | | | | | | | |
| Output Attribute Name and Definition | Name: Definition: | | | | | | | | |
| Current Logic | | | | | | | | | |
| N/A | | | | | | | | | |
| Modified Logic (Changes are in bold) | | | | | | | | | |
| 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 **The second line will designate how the report will be sorted and printed. This example, sorts by clinic. | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"> MENTAL HEALTH NO SHOW REPORT BY CLINIC </td> <td style="text-align: right;"> NOV 10,2010@09:34 PAGE 1 </td> </tr> <tr> <td style="text-align: center;"> PATIENT PT ID EVENT D/T CLINIC STOP CODE </td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;"> ***** </td> </tr> <tr> <td colspan="2" style="text-align: center;"> DIVISION: ALBANY </td> </tr> </table> | | MENTAL HEALTH NO SHOW REPORT BY CLINIC | NOV 10,2010@09:34 PAGE 1 | PATIENT PT ID EVENT D/T CLINIC STOP CODE | | ***** | | DIVISION: ALBANY | |
| MENTAL HEALTH NO SHOW REPORT BY CLINIC | NOV 10,2010@09:34 PAGE 1 | | | | | | | | |
| PATIENT PT ID EVENT D/T CLINIC STOP CODE | | | | | | | | | |
| ***** | | | | | | | | | |
| DIVISION: ALBANY | | | | | | | | | |
| If the sort is by the reminder location the following will print: | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"> MENTAL HEALTH NO SHOW REPORT BY REMINDER LOCATION LIST </td> <td style="text-align: right;"> NOV 10,2010@09:34 PAGE 1 </td> </tr> <tr> <td style="text-align: center;"> PATIENT PT ID EVENT D/T CLINIC STOP CODE </td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;"> ***** </td> </tr> <tr> <td colspan="2" style="text-align: center;"> DIVISION/REM LOC LIST: ALBANY/VA-MH QUERI PC CLINIC STOPS </td> </tr> </table> | | MENTAL HEALTH NO SHOW REPORT BY REMINDER LOCATION LIST | NOV 10,2010@09:34 PAGE 1 | PATIENT PT ID EVENT D/T CLINIC STOP CODE | | ***** | | DIVISION/REM LOC LIST: ALBANY/VA-MH QUERI PC CLINIC STOPS | |
| MENTAL HEALTH NO SHOW REPORT BY REMINDER LOCATION LIST | NOV 10,2010@09:34 PAGE 1 | | | | | | | | |
| PATIENT PT ID EVENT D/T CLINIC STOP CODE | | | | | | | | | |
| ***** | | | | | | | | | |
| DIVISION/REM LOC LIST: ALBANY/VA-MH QUERI PC CLINIC STOPS | | | | | | | | | |

| Routine Name | ^SDMHAD1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|------------------------------|--------|-----------|--|-----|---------------|--------|--|--|--|-----------|--|--|--|--|---------|-------|-----------|--------|-----------|-------|--|--|--|--|------------------------------|--|--|--|--|
| <p>- The patient name , ID, date of no showed appointment, clinic and the stop code will print</p> <p>For each patient listed, the following information if available will print:</p> <p>Patient phone numbers for home, office, cell</p> <p>Next of Kin information, contact, relationship to patient and address and phone numbers</p> <p>Emergency contact information, contact, relationship to patient, address and phone numbers</p> <p>Default provider for the clinic they no showed for</p> <p>Mental Health Treatment Coordinator and Care team (in Parenthesis)</p> <p>Future scheduled appointments, clinic, date and location of the clinic</p> <p>The results of efforts to contact the patient. (information from clinical reminder API)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>If there are no patients the heading will print with no records available.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td colspan="4">MENTAL HEALTH NO SHOW REPORT</td> <td>NOV</td> </tr> <tr> <td>10,2010@09:54</td> <td>PAGE 1</td> <td colspan="3"></td> </tr> <tr> <td colspan="5">BY CLINIC</td> </tr> <tr> <td>PATIENT</td> <td>PT ID</td> <td>EVENT D/T</td> <td>CLINIC</td> <td>STOP CODE</td> </tr> <tr> <td colspan="5">*****</td> </tr> <tr> <td colspan="5">>>>>> NO RECORDS FOUND <<<<<</td> </tr> </table> | | MENTAL HEALTH NO SHOW REPORT | | | | NOV | 10,2010@09:54 | PAGE 1 | | | | BY CLINIC | | | | | PATIENT | PT ID | EVENT D/T | CLINIC | STOP CODE | ***** | | | | | >>>>> NO RECORDS FOUND <<<<< | | | | |
| MENTAL HEALTH NO SHOW REPORT | | | | NOV | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10,2010@09:54 | PAGE 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BY CLINIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PATIENT | PT ID | EVENT D/T | CLINIC | STOP CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| >>>>> NO RECORDS FOUND <<<<< | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

^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.

Table 19: ^SDMHNS Routine

| | | | | | |
|--|---|---|---|---|--------------------------------|
| Routine Name | ^SDMHNS | | | | |
| Enhancement Category | <input checked="" type="checkbox"/> New | <input type="checkbox"/> Modify | <input type="checkbox"/> Delete | <input type="checkbox"/> No Change | |
| 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 START^SDMHAD \$\$SETSTR^SDMHNS1 SET1^SDMHNS1 ^VADATE ^XMD EN^XUTMDEVQ | | |
| Data Dictionary References | ^TMP("SDNS" ^XMB(3.8 MAIL GROUP | | | | |
| Related Protocols | N/A | | | | |
| Related Integration Agreements | N/A | | | | |
| Data Passing | <input type="checkbox"/> Input | <input type="checkbox"/> Output Reference | <input checked="" type="checkbox"/> Both | <input type="checkbox"/> Global Reference | <input type="checkbox"/> Local |
| Input Attribute Name and Definition | Name: Definition: | | | | |

| | |
|--|----------------------|
| Routine Name | ^SDMHNS |
| Output Attribute Name and Definition | Name: Definition: |
| Current Logic | |
| N/A | |
| Modified Logic (Changes are in bold) | |
| <p>The variable SDXFLG is set to 1 ; This flag is set to 1 when running from the background Job</p> <p>The date range is set to T-1 from the date the SD Nightly Background Job is run.</p> <p>The Division is set to ALL the divisions in the facility.</p> <p>The sort criteria, is set All Clinics.</p> <p>Call is made to START ^SDMHAD</p> <p>Check to see if the division/clinic/stop have been selected and if the clinic and stop code are a valid mental health pair. -Set ^TMP("SDNSHOW", \$J with the valid choices</p> <p>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</p> <p> -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)</p> <p>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.</p> <p>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 XMTEXT is set to the global containing the data ^TMP("SDNS", \$J, LINE #,0)</p> <p>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.</p> | |

| | |
|--|----------------|
| Routine Name | ^SDMHNS |
| 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 20: ^SDMHNS1 Routine

| | | |
|---------------------------------------|--|--|
| Routine Name | ^SDMHNS1 | |
| Enhancement Category | <input checked="" type="checkbox"/> New <input type="checkbox"/> Modify <input type="checkbox"/> Delete <input type="checkbox"/> No Change | |
| 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 References | ^DIC(40.7 CLINIC STOP ^DPT(PATIENT ^SC(HOSPITAL LOCATION ^TMP(^TMP("SDNS" ^TMP(\$J ^VA(200 NEW PERSON | |
| Related Protocols | N/A | |
| Related Integration Agreements | N/A | |

| | |
|---|--|
| Routine Name | ^SDMHNS1 |
| Data Passing | <input type="checkbox"/> Input <input type="checkbox"/> Output Reference <input checked="" type="checkbox"/> Both <input type="checkbox"/> Global Reference <input type="checkbox"/> Local |
| Input Attribute Name and Definition | Name: Definition: |
| Output Attribute Name and Definition | Name: Definition: |
| Current Logic | |
| N/A | |
| Modified Logic (Changes are in bold) | |
| <p>The code will loop through the ^TMP("SDNS", Clinic, global</p> <p>- A header will be set into the ^TMP("SDNS",\$J,LINE #,0) global for each division (alphabetical)</p> <p>which will include the following information:</p> <p>**The second line will designate how the report will be sorted and printed. The background job will only print the report by Clinic.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre> MENTAL HEALTH NO SHOW REPORT NOV 10,2010@09:34 PAGE 1 BY CLINIC PATIENT PT ID EVENT D/T CLINIC STOP CODE ***** DIVISION: ALBANY </pre> </div> <p>For each patient listed, the following information if available will be set into the ^TMP("SDNS",\$J,LINE #,0) global:</p> <p>Patient phone numbers for home, office, cell</p> <p>Next of Kin information, contact, relationship to patient and address and phone numbers</p> <p>Emergency contact information, contact, relationship to patient, address and phone numbers</p> <p>Default provider for the clinic they no showed for</p> <p>Mental Health Treatment Coordinator MHTC and care team (in parenthesis)</p> <p>Future scheduled appointments, clinic, date and location of the clinic</p> <p>The results of efforts to contact the patient. (information from clinical reminder API)</p> <p>If there are no patients the heading will print with no records available.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre> MENTAL HEALTH NO SHOW REPORT NOV 10,2010@09:54 PAGE 1 BY CLINIC PATIENT PT ID EVENT D/T CLINIC STOP CODE ***** >>>>>> NO RECORDS FOUND <<<<<< </pre> </div> | |

^SDAMQ

Table 21: ^SDAMQ Routine

| Routine Name | ^SDAMQ | |
|--|--|-------------------|
| Enhancement Category | <input type="checkbox"/> New <input checked="" type="checkbox"/> Modify <input type="checkbox"/> Delete <input type="checkbox"/> No Change | |
| SRS Traceability | | |
| Related Options | Nightly job for PM data extract [SDOQM PM NIGHTLY JOB] | |
| Related Routines | Routines "Called By" | Routines "Called" |
| | | |
| Data Dictionary References | N/A | |
| Related Protocols | N/A | |
| Related Integration Agreements | N/A | |
| Data Passing | <input type="checkbox"/> Input <input type="checkbox"/> Output Reference <input checked="" type="checkbox"/> Both <input type="checkbox"/> Global Reference <input type="checkbox"/> Local | |
| Input Attribute Name and Definition | Name: Definition: | |
| Output Attribute Name and Definition | Name: Definition: | |
| Current Logic | | |
| <pre> 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 </pre> | | |
| Modified Logic (Changes are in bold) | | |
| <pre> START ; G STARTQ:'\$\$SWITCH </pre> | | |

| Routine Name | ^SDAMQ |
|--|--------|
| <pre> N SDSTART,SDFIN ;N SDMHNOSH ; set for no show report 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 ; AUTO ; -- nightly job entry point G:'\$\$SWITCH AUTOQ ; -- do yesterday's first 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 </pre> | |

EN^SDMHPRO

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

Table 22: EN^SDMHPRO Routine

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

| Routine Name | EN^SDMHPRO |
|---|------------|
| None | |
| 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 ^SDMHPRO | |
| Check to see if the clinics are mental health clinics in the Reminder location file | |
| -Set ^TMP("SDPRO",\$J with the valid choices | |
| Find the patients in the date 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(clinic,"S",date | |
| - If there is a match, set up the global ^TMP("SDPRO1", SORT (clinic, reminder location or stop code) | |
| Call to ^SDMHPRO1 routine to set up the global ^TMP("SDMHP",\$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 # | |
| XMTEXT is set to the global 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 to the AD HOC report except it will have mailman designation in the heading. | |

^SDMHPRO1

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

Table 23: EN^SDMHPRO1 Routine

| Routine Name | EN^SDMHPRO1 | | | | |
|--|--|---|---|---|---|
| Enhancement Category | <input checked="" type="checkbox"/> New <input type="checkbox"/> Modify <input type="checkbox"/> Delete <input type="checkbox"/> No Change | | | | |
| Requirement Traceability Matrix | N/A | | | | |
| Related Options | High Risk MH Proactive Nightly Report [SD MH PROACTIVE BGJ REPORT] option | | | | |
| 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 | <input type="checkbox"/> Input | <input type="checkbox"/> Output Reference | <input type="checkbox"/> Both | <input type="checkbox"/> Global Reference | <input checked="" type="checkbox"/> Local |

| | |
|--|---------------------------|
| Routine Name | EN^SDMHPRO1 |
| Input Attribute Name and Definition | Name: None Definition: |
| Output Attribute Name and Definition | Name: None Definition: |
| Current Logic | |
| None | |
| Modified Logic (Changes are in bold) | |
| <p>The code will loop through the ^TMP("SDPRO1" global</p> <ul style="list-style-type: none"> - A totals page will print out of the unique patients at the beginning of the report. - A header will print for each division (alphabetical) which will include the following information: the <ul style="list-style-type: none"> - The second line will designate how the report will be sorted and printed. This example, sorts by clinic. - The patient name , ID, date of appointment, clinic | |
| <p>PROACTIVE HIGH RISK REPORT PAGE 1 by CLINIC for Appointments 9/24/11-10/14/11 Run: 10/14/2011@12:39</p> | |
| <p>PATIENT PT ID APPT D/T CLINIC *****</p> | |
| <p>DIVISION: ALBANY</p> | |
| <p>1 Schedulingpatient, One 0000 10/3/2011 9:00 am D-PSYCHXXXXXXXXXX</p> | |
| <p>PROACTIVE HIGH RISK REPORT PAGE 2 by CLINIC for Appointments 9/24/11-10/14/11 Run: 10/4/2011@12:39</p> | |
| <p>PATIENT PT ID APPT D/T CLINIC *****</p> | |
| <p>DIVISION: ON THE HUDSON IN HISTORIC TROY</p> | |
| <p>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</p> | |
| <p>2 Schedulingpatient, TWO 6666 10/4/2011 10:00 am LIZ'S MENTAL HEALTH CLI</p> | |

| Routine Name | | EN^SDMHPRO1 | |
|--|------------------------|----------------------|----------------------------------|
| PROACTIVE HIGH RISK REPORT | | PAGE 3 | |
| by CLINIC for Appointments 9/24/11-10/14/11 | | Run: 10/4/2011@12:39 | |
| PATIENT | PT ID | APPT D/T | CLINIC |
| ***** | | | |
| DIVISION: TROY1 | | | |
| 1 | Schedulingpatient, One | 0000 | 9/30/2011 11:00 am MENTAL HEALTH |
| 2 | Schedulingpatient, TWO | 6666 | 10/5/2011 10:00 am MENTAL HEALTH |
| PROACTIVE HIGH RISK REPORT | | PAGE 4 | |
| by CLINIC for Appointments 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 HISTORIC TROY | 2 | | |
| TROY1 | 2 | | |
| If there are no patients the heading will print with no records available. | | | |
| PROACTIVE HIGH RISK REPORT | | PAGE 3 | |
| by CLINIC for Appointments 9/24/11-10/14/11 | | Run: 10/4/2011@12:39 | |
| PATIENT | PT ID | APPT D/T | CLINIC |
| ***** | | | |
| >>>>> 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 24: EN^SDMHAP Routine

| Routine Name | EN^SDMHAP | | |
|-------------------------------------|--|--|--|
| Enhancement Category | <input checked="" type="checkbox"/> New <input type="checkbox"/> Modify <input type="checkbox"/> Delete <input type="checkbox"/> No Change | | |
| 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 |
| | <code>^TMP(^TMP("SDPRO" ^TMP("SDPRO1"</code> |
| Related Protocols | N/A |
| Related Integration Control Registrations (ICRs) | N/A |
| Data Passing | <input type="checkbox"/> Input <input type="checkbox"/> Output Reference <input type="checkbox"/> Both <input type="checkbox"/> Global Reference <input checked="" type="checkbox"/> Local |
| Input Attribute Name and Definition | Name: None Definition: |
| Output Attribute Name and Definition | Name: None Definition: |
| Current Logic | |
| None | |
| Modified Logic (Changes are in bold) | |
| <p>User is asked to choose the date range.</p> <p>User is asked to choose the Divisions in the facility (one, many, `all)</p> <p>Report will sort by clinic.</p> <p>User will be asked to list report by All clinics (mental health and not mental health) or Mental Health clinics only</p> <p>If All clinics the user can choose all the clinics in the facility</p> <p>If Mental Health clinics only, the user will choose only clinics that have stop codes located in the</p> <p style="text-align: center;">Reminder Location List VA-MH NO SHOW APPT CLINICS LL</p> <p>Set <code>^TMP("SDPRO", \$J</code> with the valid choices</p> <p>Find the patients in the date range with High Risk for Mental Health patient record flag that have an appointment.</p> <p style="text-align: center;">-Loop through the <code>^TMP("SDPRO", \$J</code> global</p> <p>Within that loop, check the Hospital Location "S" X-ref to see if the patient has an appointment In the date range.. <code>^SC(clinic,"S",date</code></p> <p>- If there is a match, set up the global <code>^TMP("SDPRO1", SORT by clinic</code></p> | |

| Routine Name | EN^SDMHAP |
|--|-----------|
| Call ^SDMHAP1 routine to print the report. | |

EN^SDMHAP1

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

Table 25: EN^SDMHAP1 Routine

| | | | | | |
|---|--|---|--|---|---|
| Routine Name | EN^SDMHAP1 | | | | |
| Enhancement Category | <input checked="" type="checkbox"/> New | <input type="checkbox"/> Modify | <input type="checkbox"/> Delete | <input type="checkbox"/> No Change | |
| Requirement Traceability Matrix | N/A | | | | |
| Related Options | High Risk MH Proactive Adhoc Report [SD MH PROACTIVE AD HOC REPORT] option | | | | |
| Related Routines | Routines “Called By” | | Routines “Called” | | |
| | ^SDMHAP | | C^%DTC ^DIR \$\$SDAPI^SDAMA301 HEAD^SDMHAP HEAD1^SDMHAP COUNT^SDMHPRO TOTAL1^SDMHPRO PID^VADPT6 \$\$FMTE^XLFDT | | |
| Data Dictionary (DD) References | ^DIC(40.7 ^DPT(^TMP(^TMP(\$J ^VA(200 | | | | |
| Related Protocols | N/A | | | | |
| Related Integration Control Registrations (ICRs) | N/A | | | | |
| Data Passing | <input type="checkbox"/> Input | <input type="checkbox"/> Output Reference | <input type="checkbox"/> Both | <input type="checkbox"/> Global Reference | <input checked="" type="checkbox"/> 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 are in bold) | |
| <p>The code will loop through the ^TMP("SDPRO1" global</p> <ul style="list-style-type: none"> - A header will print for each division (alphabetical) which will include the following information: the - The second line will designate how the report will be sorted and printed. This example, sorts by clinic. - The patient name , ID, date of appointment, clinic - A totals page will print out of the unique patients. | |
| <p>HIGH RISK MENTAL HEALTH PROACTIVE ADHOC REPORT BY PAGE 1 CLINIC for Appointments 4/4/13-4/14/13 Run: 4/4/2013@15:58</p> | |
| <pre># PATIENT PT ID APPT D/T CLINIC ***** DIVISION: ALBANY 1 TESTPATIENT,ONEXXXX T1111 4/4/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/5/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/8/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/9/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/10/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/11/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX 4/12/2013@08:00 D-PSYCHXXXXXXXXXXXXXXXXXXXXX</pre> | |
| <p>HIGH RISK MENTAL HEALTH PROACTIVE ADHOC REPORT BY PAGE 2 CLINIC for Appointments 4/4/13-4/14/13 Run: 4/4/2013@15:58</p> | |
| <pre># PATIENT PT ID APPT D/T CLINIC ***** DIVISION: ON THE HUDSON IN HISTORIC TROY 1 TESTPATIENT,TWOXXX T0000 4/4/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/5/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/7/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/8/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/9/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/10/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/11/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/12/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX 4/14/2013@08:00 LIZ'S MENTAL HEALTH CLINICXXX</pre> | |
| <p>HIGH RISK MENTAL HEALTH PROACTIVE ADHOC REPORT BY PAGE 3</p> | |

| 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 |
| ***** | | | | |
| DIVISION: TROY1 | | | | |
| 1 | TESTPATIENT,ONEXXX | 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 BY | | | | PAGE 4 |
| CLINIC for Appointments 4/4/13-4/14/13 | | Run: 4/4/2013@15:58 | | |
| Totals Page | | | | |
| ***** | | | | |
| Division/Clinic Appointment Totals | | | | |
| Division/Clinic | Unique | | | |
| | Patients | | | |
| ALBANY | 1 | | | |
| ON THE HUDSON IN HISTORIC TROY | | | 1 | |
| TROY1 | 1 | | | |
| If there are no patients the heading will print with no records available. | | | | |
| HIGH RISK MENTAL HEALTH PROACTIVE ADHOC REPORT BY | | | | PAGE 4 |
| CLINIC for Appointments 4/4/13-4/14/13 | | Run: 4/4/2013@15:58 | | |
| PATIENT | PT ID | 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, PXR 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.

Table 26: Minimum Version Baseline

| 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 |

| 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.

Table 27: Ambulatory Care Reporting Project Elements

| ELEMENT CHECKED | CHECK PERFORMED | REQUIRED FOR INSTALL |
|---|---------------------------|----------------------|
| 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 |
| 1 This domain was distributed by patch XM*DBA*99. 1 Not installing this patch will result in the loss of workload credit. 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

10.2 DBIA 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 PRACTITIONER 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.

```

INPTPR^SDUTL3(PARM 1, PARM 2) - stores data in CURRENT PC
PRACTITIONER field.
Input  PARM 1 The internal entry of the PATIENT file.
PARM 2      Pointer to the NEW PERSON file indicating the
              practitioner associated with the patient's care.
Output SDOKS 1 if data is stored successfully; 0 otherwise

```

```

INPTTM^SDUTL3(PARM 1, PARM 2) - stores data in CURRENT PC TEAM field.
Input  PARM 1 The internal entry of the PATIENT file.
        PARM 2 Pointer to the TEAM file indicating the team associated
              with the patient's care.
Output SDOKS 1 if data is stored successfully; 0 otherwise

```

10.5.2 Patient Record Flag Variables

10.5.2.1 Integration Agreement Applicable

Example: How to access Integration Agreements

```

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,
 For Local Flags: IEN;DGPF(26.11,

VARIABLES: Input DGSTART
 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.

VARIABLES: Both DGARR
 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).
 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.

KEYWORDS: PATIENT RECORD FLAGS

Example: Inquire to an Integration Control Registration

```

Select INTEGRATION CONTROL REGISTRATIONS Option: inq  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
-----

      5491      NAME: PATIENT RECORD FLAG VARIABLE POINTER
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
           Optimal 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

```

Returns one of the following values:

IEN;DGPF(National or Local File number, i.e.
1;DGPF(26.11,

Will return "-1;NOT FOUND" If no flag is found matching the test

"-1;NOT ACTIVE" If the flag is not currently active.

KEYWORDS :

10.5.2.2 DGPFAPIH

| | |
|---|---|
| <p>GETINF^DGPFAPIH (Increment 1)</p> <p>DGPFAPIH is both a Routine and API / Integration agreement (# 4903)</p> | <p>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.</p> <p>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</p> |
| <p>GETLST^DGPFAPIH (Increment 1)</p> | <p>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.</p> |

10.5.2.3 DGPFAPIU

| | |
|-------------------------------|---|
| <p>DGPFAPIU (Increment 1)</p> | <p>This routine provides support utilities and functions for the new Application Programming Interface calls.</p> <p>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.</p> <p>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</p> |
|-------------------------------|---|

| | |
|-----------------------------------|--|
| | 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^DGPFAPUI (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 define this variable if you do not want the user to be given the ALL option.
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 1 The internal entry of the PATIENT file.
PARM 2 The 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>

- 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.

Table 28: 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 | @ | @ | @ | @ | @ |
| 26.12 | PRF LOCAL FLAG | @ | @ | @ | @ | @ |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|-------------------------------------|-----------|-----------|-----------|------------|--------------|
| | 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/ELIGIBILITY 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 | EMBOSSSED 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 |
| 41.43 | PRE-REGISTRATION | @ | d | D | D | D |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|---------------------------|-----------|-----------|-----------|------------|--------------|
| | CALL LOG | | | | | |
| 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 | @ | @ | @ |
| 45.61 | PTF ABUSED SUBSTANCE | @ | d | @ | @ | @ |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|--|-----------|-----------|-----------|------------|--------------|
| 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 | @ | @ | @ |
| 390 | ENROLLMENT RATED DISABILITY UPLOAD AUDIT | @ | @ | @ | @ | @ |
| 391 | TYPE OF PATIENT | @ | d | @ | @ | @ |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|----------------------------------|-----------|-----------|-----------|------------|--------------|
| 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 | @ | @ | @ | @ | @ |
| 404.51 | TEAM | @ | d | @ | @ | @ |
| 404.52 | POSITION ASSIGNMENT HISTORY | @ | d | @ | @ | @ |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|---|-----------|-----------|-----------|------------|--------------|
| 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 | @ | @ | @ |
| 405.3 | MAS MOVEMENT TRANSACTION TYPE | @ | d | @ | @ | @ |
| 405.4 | ROOM-BED | @ | d | D | @ | D |

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|--------------------------------|-----------|-----------|-----------|------------|--------------|
| 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 | @ | @ | @ |
| 409.2 | CANCELLATION REASONS | @ | d | @ | @ | @ |
| 409.41 | OUTPATIENT CLASSIFICATION TYPE | @ | d | @ | @ | @ |

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

| FILE NUMBER | FILE NAME | DD ACCESS | RD ACCESS | WR ACCESS | DEL ACCESS | LAYGO ACCESS |
|-------------|--------------------------------------|-----------|-----------|-----------|------------|--------------|
| 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.

Table 29: Supported References

| 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 TO | (#.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 |
| PLACE OF BIRTH [STATE] | (#.093) | 0;12 | Read |
| WHO ENTERED | (#.096) | 0;15 | Read |

| FIELD NAME | FIELD # | GLOBAL LOCATION | TYPE OF ACCESS |
|---------------------------|-----------|-----------------|----------------|
| PATIENT | | | |
| 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 |

12.2 CALLABLE 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^external format. (e.g., M^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^external format. (e.g., 99^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^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^external format. (e.g., 2^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^external format. (e.g., 1^SC VETERAN)

VAEL(7) The CLAIM NUMBER of the patient. (e.g., 123456789)

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^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^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^external format. (e.g., 5^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.

VASV(11,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 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 SERVICE [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 first line of the STREET ADDRESS.
(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^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.

VAPA(16) The city for the Confidential Address.

VAPA(17) The state for the Confidential Address in internal^external format. (e.g., 36^NEW YORK)

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:

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.

VAOA("A")=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)

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

global with numeric subscripts

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

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

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(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^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)

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^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^ADTPROVIDER,TWO)

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 in internal^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^external format.(e.g., 16^REGULAR)

VAIP(17,4) The WARD LOCATION associated with this patient for this movement in internal^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)

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^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 2 Status

Piece 3 Type of Benefit applied for

Piece 4 Facility Applying to

PIMS

Piece 5 Who Registered

Piece 6 Log out (disposition) date/time

Piece 7 Disposition Type

Piece 8 Who 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 format

Piece 1 Clinic Enrolled in

Piece 2 Enrollment Date

Piece 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 2 Clinic

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 30: Call Combinations

| | | | | | | | | | | |
|--------------------|--------------------|--------------------|------------------|------------------|----------------|----------------|-----------------|---------------------|-------------------|--------------------|
| Output : | DEMOGRAPHIC | ELIGIBILITY | INPATIENT | INPATIENT | ADDRESS | SERVICE | MONETARY | REGISTRATION | ENROLLMENT | APPOINTMENT |
|--------------------|--------------------|--------------------|------------------|------------------|----------------|----------------|-----------------|---------------------|-------------------|--------------------|

PIMS

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

12.3 Alpha Subscripts

Table 31: 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") |

| CALL | VARIABLE | ALPHA TRANSLATION |
|-----------|------------|-------------------|
| | VAMB(9) | VAMB("GI") |
| 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") |

| CALL | VARIABLE | ALPHA TRANSLATION |
|-----------|----------|-------------------|
| | VAPA(4) | VAPA("CI") |
| | 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") |

| CALL | VARIABLE | ALPHA TRANSLATION |
|-----------|------------|-------------------|
| | VAOA(7) | VAOA("CO") |
| | 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",#) |

| CALL | VARIABLE | ALPHA TRANSLATION |
|-----------|------------|-------------------|
| | VAIP(15) | VAIP("PN") |
| | 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 M-based 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 32: 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 re-programmed 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=$O(^TMP($J,"SDAMA301",DGCLN,DGPAT)
Q:DGPAT="" D
. S DGDATE=0 F  S DGDATE=$O(^TMP($J,"SDAMA301",DGCLN,DGPAT,DGDATE)
Q: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:

| | |
|-------------------|--|
| <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. |
| <u>Filters</u> | Optional. See "SDAPI - Filters" for a complete list of available appointment filters and their input array format. |
| <u>Max Appts</u> | Optional, ARRAY("MAX"). Maximum appointments requested. |
| See | "SDAPI - Filters" for a description and valid values of this array entry. |
| <u>Sort</u> | 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. |
| <u>Purged</u> | 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 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 populated, and several fields will not be available to request 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 those fields. |

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.

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.

13.2 SDAPI - EXAMPLES

1) **By Clinic**. 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
S SDARRAY("FLDS")="4;3"           ← order is irrelevant
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ;get patient
. S SDDFN=0 F S SDDFN=$O(^TMP($J,"SDAMA301",501,SDDFN)) Q:SDDFN="" D
. . ;get appointment date/time
. . S SDDATE=0 F S SDDATE=$O(^TMP($J,"SDAMA301",501,SDDFN,SDDATE))
Q: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) By Patient. 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=$O(^TMP($J,"SDAMA301",100,SDCLIEN)) Q:SDCLIEN="" D
. . ; get appointment date/time
. . S SDDATE=0 F S SDDATE=$O(^TMP($J,"SDAMA301",100,SDCLIEN,SDDATE))
Q: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) By Patient and Clinic. 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=$O(^TMP($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 $G(SDCREDIT)'=";" S SDCRIEN=$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) By neither Patient nor Clinic. 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))
Q:SDDFN="" D
. . . ; get appointment date/time
. . . S SDDATE=0 F S
SDDATE=$O(^TMP($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"
S SDARRAY("FLDS")="4;3"      ← order is irrelevant
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
.;get patient
.S SDDFN=0 F S SDDFN=$O(^TMP($J,"SDAMA301",SDDFN)) Q:SDDFN="" D
. . ; get appointment date/time
. . S SDDATE=0 F S SDDATE=$O(^TMP($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) By Clinic with “Sort” filter defined. 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"
S SDARRAY("FLDS")="4;6"           ← order is irrelevant
S SDCOUNT=$$SDAPI^SDAMA301(.SDARRAY)
I SDCOUNT>0 D
. ; get patient
. S SDDFN=0 F S SDDFN=$O(^TMP($J,"SDAMA301",SDDFN)) Q:SDDFN="" D
. . ; get appointment date/time
. . S SDDATE=0 F S SDDATE=$O(^TMP($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=$$SDAPI^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=$O(^TMP($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=$O(^TMP($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:

Table 33: Available Appointment Data Fields

| ID | FIELD NAME | DATA TYPE | Format/Valid Values | Description | Examples of Returned Data |
|----|-----------------------|-----------|---|--|--|
| 1 | APPOINTMENT DATE/TIME | DATE/TIME | YYMMDD.HHMM | 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 | APPOINTMENT 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 APPOINTMENT | 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 Note: Comments shall be located on the "C" |

| ID | FIELD NAME | DATA TYPE | Format/Valid Values | Description | Examples of Returned Data |
|----|-----------------------------------|-----------|--|---|--|
| | | | | | 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/TIME | YYMMDD.HHM | Date/time the patient checked in for the appointment. | 3031215.113 |
| 10 | APPOINTMENT 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/TIME | YYMMDD.HHM | Date/time the patient checked out of the appointment. | 3031215.113 |
| 12 | OUTPATIENT ENCOUNTER 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 |
| 14 | CREDIT STOP CODE IEN and | TEXT | IEN;code | Credit Stop code IEN and code associated with | 549;500 |

| ID | FIELD NAME | DATA TYPE | Format/Valid Values | Description | Examples of Returned Data |
|----|-----------------------------|-----------|--|---|--|
| | CODE | | | the clinic. | |
| 15 | WORKLOAD NON-COUNT | TEXT | Y or N | “Y” if clinic is non-count else “N”. | Y N |
| 16 | DATE APPOINTMENT MADE | DATE | YYMMDD | Date the appointment was entered into the Scheduling system. | 3031215 |
| 17 | DESIRED DATE OF APPOINTMENT | DATE | YYMMDD | 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/TIME | YYMMDD.HHM | The scheduled date/time of the EKG tests in conjunction with this appointment. | 3031215.083 |
| 20 | X-RAY DATE/TIME | DATE/TIME | YYMMDD.HHM | The scheduled date/time of the X-RAY in conjunction with this appointment. | 3031215.083 |
| 21 | LAB DATE/TIME | DATE/TIME | YYMMDD.HHM | The scheduled date/time of the Lab tests in conjunction with this appointment. | 3031215.083 |
| 22 | STATUS | TEXT | Status Code, Status Description, Print Status, Checked In Date/Time, | Status Information for the Visit. | 8;INPATIENT APPOINTMENT;INPATIENT/CHECKED OUT;;3030218.1548;145844 |

| ID | FIELD NAME | DATA TYPE | Format/Valid Values | Description | Examples of Returned Data |
|----|-------------------------------------|-----------|---|--|---------------------------|
| | | | Checked Out Date/Time, and Admission Movement IFN | | |
| 23 | X-RAY FILMS | TEXT | Y or N | “Y” if x-ray films are required at clinic else “N”. | Y N |
| 24 | AUTO-REBOOKED APPOINTMENT DATE/TIME | DATE/TIME | YYMMDD.HHMM | The date/time that the appointment was Auto-Rebooked (rescheduled) to. | 3031215.083 |
| 25 | NO-SHOW / CANCEL DATE/TIME | DATE/TIME | YYMMDD.HHMM | The date/time that the appointment was No-Showed or Cancelled. | 3031215.083 |
| 26 | RSA APPOINTMENT 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 |
| 30 | CHECK IN USER | TEXT | DUZ;Name | The DUZ and name of the clerk who checked in the appointment. | 24569;PERSON,NEW A |

| ID | FIELD NAME | DATA TYPE | Format/Valid Values | Description | Examples of Returned Data |
|--|---------------------|-----------|---------------------|--|---------------------------|
| 31 | CHECK OUT USER | TEXT | DUZ;Name | The DUZ and name of the clerk who checked out the appointment. | 24569;PERSON,NEW A |
| 32 | CANCELLATION REASON | TEXT | 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: 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.

Table 34: Available Data Filters

| 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 YYYYMMDD.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)="^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 DATA TO BE FILTERED | ARRAY ENTRY | Format | Examples of M code to set array with filter values |
|---------------------------------|-------------|---|---|
| APPOINTMENT STATUS | ARRAY(3) | <p>List of valid Appointment Status values, each separated by a semicolon. Valid values:</p> <p>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)</p> <p>ARRAY (3) ="status1; status2" etc.</p> | <p>S ARRAY(3)="I" S ARRAY(3)="R;I;NT" S ARRAY(3)="CC;CCR;CP;CPR"</p> |
| PATIENT DFN | ARRAY(4) | <p>List of valid patient DFNs (each separated by a semicolon) or a global root or a local root. DFN must exist on PATIENT file.</p> <p>ARRAY (4) ="dfn1; dfn2" etc. ARRAY(4)="^global(" ARRAY(4)="^global(#" " ARRAY(4)="^global(#," " ARRAY(4)="local("</p> | <p>S ARRAY(4)=7179940 S ARRAY(4)="7179940;7179939;7179920" S ARRAY(4)="^GBL(" S ARRAY(4)="^GBL("IENLIST"" S ARRAY(4)="^GBL("IENLIST"," " S ARRAY(4)="LOCAL(" S ARRAY(4)="LOCAL("IENLIST"" S ARRAY(4)="LOCAL("IENLIST"," "</p> |

| 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(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" |
| 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 YYYYMMDD (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) |

13.3.2 Input – Other Array Entries

Table 35: Input – Other Array Entries

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

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.

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)="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("#, "
 ARRAY(4)="local(" "
 ARRAY(4)="local("# "
 ARRAY(4)="local("#, "

 S ARRAY(4)=7179940
 S ARRAY(4)="7179940;7179939;7179920"
 S ARRAY(4)="^GBL(" "
 S ARRAY(4)="^GBL(" "IENLIST" " "
 S ARRAY(4)="^GBL(" "IENLIST" ", "
 S ARRAY(4)="LOCAL(" "
 S ARRAY(4)="LOCAL(" "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"

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 YYYYMMDD

(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 36: 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. |
| 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: Returns appointment information for a specific patient ID. 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)

SDSTART Start Date (optional, internal FileMan format)

SDEND End Date (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 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"
```


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
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"
^TMP(1000,"SDAMA201","GETAPPT",2,6)="WHEELCHAIR REQUESTED"
```

13.4 Application Programmer Interface - NEXTAPPT

Name: NEXTAPPT ; Retrieve Next Appointment Data for a Patient ID

Declaration: \$\$NEXTAPPT^SDAMA201(SDIEN,SDFIELDS,
SDAPSTAT,SDIOSAT)

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)

SDIOSAT 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",1)=3030115.10
^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",1)=3030130.10
^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)
SDAPSTAT Appointment Status Filter (optional, each value 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")
```

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: SDDFN Patient IEN (required)

Return Values: Patient scheduling record(s) Value Returned

| | |
|---------------------------|---|
| Appointment(s) on file | 1 |
| No Appointment(s) on file | 0 |
| Error - | 1 |

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.

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"
```

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 37: Available Data Fields

| ID | FIELD NAME | DATA TYPE | Format or Valid Values | Description | Examples of Returned Data |
|----|-----------------------|------------------|--|---|--|
| 1 | APPOINTMENT DATE/TIME | DATE/TIME | YYMMDD@HHMM | The scheduled Appointment Date/Time | 3021215@113 3021201@0815 |
| 2 | CLINIC ID and NAME | POINTER and TEXT | ID^name | Clinic ID and name | 150^CARDIOLOGY 32^TOM'S CLINIC |
| 3 | APPOINTMENT 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,BOB 455^SCHILSON, BRIAN |
| 5 | LENGTH OF APPOINTMENT | NUMERIC | NNN | The scheduled length of appointment, in minutes | 20 60 |
| 6 | COMMENTS | TEXT | free text | Any comments associated with the appointment | PATIENT NEEDS WHEELCHAIR |
| 7 | OVERBOOK | TEXT | Y or N | "Y" if appointment is an overbook else | Y N |

| ID | FIELD NAME | DATA TYPE | Format or Valid Values | Description | Examples of Returned Data |
|----|----------------------------------|------------------|------------------------|--|--|
| | | | | "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^COLLATERAL OF VET. |
| 9 | CHECK-IN DATE/TIME | DATE/TIME | YYMMDD@HHMM | Date/time the patient checked in for the appointment | 3021215@113 |
| 10 | APPOINTMENT TYPE ID and NAME | POINTER and TEXT | ID^name | Type of appointment ID and name | 1^COMPENSATION & PENSION 3^ORGAN DONORS 7^COLLATERAL OF VET. |
| 11 | CHECK-OUT DATE/TIME | DATE/TIME | YYMMDD@HHMM | Date/time the patient checked out of the appointment | 3021215@113 |
| 12 | PATIENT STATUS | TEXT | I 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 | I O "" |

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.

Table 38: Valid Appointment Status Filters

| Appt Status Filter value | Appointment Status Value(s) Returned |
|--------------------------|---|
| R | R (scheduled/kept) |
| N | N (no-show) |
| C | 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) |

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 39: Valid Patient Status Filters

| Patient Status Filter value | Description |
|-----------------------------|--|
| I | Inpatient |
| O | 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.

Table 40: Status Filter Combinations

| Patient Status Filter | Appointment Status Filter | Valid/Invalid | Patient Status value in ^TMP (if requested) |
|-----------------------|---|---------------|--|
| I or O | R | Valid | I for inpatient appointments, O for outpatient appointments |
| I or O | N | Invalid | N/A |
| I or O | C | Invalid | N/A |
| I or O | NT | Invalid | N/A |
| I 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 | C | 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 |

| | |
|---------------------------|---------------------------------|
| Patient Status filter key | Appointment Status filter key |
| 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: \$\$SDIMO^SDAMA203(SDCLIEN,SDDFN)

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 41: 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
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
```

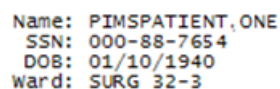
14.4 Configuring Bar Code Label Printers for Print Patient Label Option

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#).

The labels may be affixed to medical record forms in lieu of using the current embossed cards to imprint this information.

Example Label



Name: PIMSPATIENT, ONE
 SSN: 000-88-7654
 DOB: 01/10/1940
 Ward: SURG 32-3

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 ½ by 3 ½ 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,"",",DGX,"^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",!

```


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,"",",DGX,"^A0R,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 ½ by 3 ½ 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

```

```
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].

15.2 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 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:

Table 42: Message Header Segments

| 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 |
| 7 | 26 | TS | | | | Date/Time Of | Date and time |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|---|-----|----|-----|------|--------------|---------------------------------|--|
| | | | | | | Message | message was created |
| 8 | 40 | ST | | | | Security | Not used |
| 9 | 7 | CM | 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 Acknowledgment Type | NE (never acknowledge) |
| 16 | 2 | ID | | | 0155 | Application Acknowledgment Type | AL (always acknowledge) |
| 17 | 2 | ID | | | | Country Code | Not used |
| *AAC stands for Austin Automation Center. The name of that facility has been changed to Austin Information Technology Center. | | | | | | | |

15.5.2 BHS - Batch Header Segment

Table 43: 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 | | | Batch Encoding Characters | Recommended delimiter values: Component = ~ (tilde) Repeat = (bar) Escape = \ (back slash) |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|----|-----|------|------|-----------------------------|---|
| | | | | | | | 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 ² : Component 1: Not used Component 2: P Component 3: ADT Z00 Component 4: 2.3 |
| 10 | 80 | ST | | | | Batch Comment | 2 Components ³ : Component 1: Refer to Table 0008 Component 2: Text Message |
| 11 | 20 | ST | | | | Batch Control ID | Automatically generated by VISTA 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

Table 44: Batch Trailer Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|----|-----|------|------|--------------|-------------------|
|-----|-----|----|-----|------|------|--------------|-------------------|

³ 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 | Batch Message Count | Number of messages within batch |
| 2 | 80 | ST | | | 0094 | Batch Comment | Not used |
| 3 | 100 | CM | | Y | 0095 | Batch Totals | Not used |

15.5.4 MSA - MESSAGE ACKNOWLEDGMENT SEGMENT

Table 45: Message Acknowledgement Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|----|-----|------|-------------|-----------------------------|---|
| 1 | 2 | ID | R | | 0008 | Acknowledgment Code | <i>Refer to Table 0008</i> |
| 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 ⁴ |
| 4 | 15 | NM | | | | Expected Sequence Number | Not used |
| 5 | 1 | ID | | | 0102 | Delayed Acknowledgment Type | Not used |
| 6 | 100 | CE | | | | Error Condition | Not used |

15.5.5 EVN - EVENT TYPE SEGMENT

Table 46: Event Type Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|----|-----|------|------|--------------------|----------------------------|
| 1 | 3 | ID | R | | 0003 | Event Type Code | <i>Refer to Table 0003</i> |
| 2 | 26 | TS | R | | | Date/Time of Event | Date/Time Event |

⁴ 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 |
|-----|-----|----|-----|------|------|-------------------------|-------------------|
| | | | | | | | 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

Table 47: Patient Additional Demographic Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|-----|-----|------|------|---------------------------------------|---|
| 1 | 2 | IS | O | Y | 0223 | LIVING DEPENDENCY | NOT USED |
| 2 | 2 | IS | O | | 0220 | LIVING ARRANGEMENT | NOT USED |
| 3 | 90 | XON | O | Y | | PATIENT PRIMARY FACILITY ⁵ | <u>8 COMPONENTS</u> FACILITY NAME NOT USED FACILITY NUMBER NOT USED NOT USED NOT USED NOT USED NOT USED |
| 4 | 90 | XCN | O | Y | | PATIENT PRIMARY | <u>14 COMPONENTS</u> |

⁵ This element is only available from CIRN enabled facilities.

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | V/STA DESCRIPTION |
|-----|-----|----|-----|------|-------|--------------------------------|---|
| | | | | | | CARE PROVIDER NAME & ID NO. | <u>2 SUB-COMPONENTS</u> 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 NOT USED NOT USED NOT USED NOT USED |
| 5 | 2 | IS | O | | 0231 | STUDENT INDICATOR | NOT USED |
| 6 | 2 | IS | O | | 0295 | HANDICAP | NOT USED |
| 7 | 2 | IS | O | | 0315 | LIVING WILL | NOT USED |
| 8 | 2 | IS | O | | 0316 | ORGAN DONOR | NOT USED |
| 9 | 2 | ID | O | | 0136 | SEPARATE BILL | NOT USED |
| 10 | 2 | CX | O | Y | | DUPLICATE PATIENT | NOT USED |
| 11 | 1 | CE | O | | 0125 | PUBLICITY INDICATOR | NOT USED |
| 12 | 1 | ID | O | | 01293 | PROTECTION INDICATOR | NOT USED |

15.6.2 PV1 - Patient Visit Segment

Table 48: Patient Visit Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | V/STA DESCRIPTION |
|-----|-----|----|-----|------|------|------------------------|---------------------------------------|
| 1 | 4 | SI | | | | Set ID - Patient Visit | Sequential Number |
| 2 | 1 | ID | R | | 0004 | Patient Class | This will always be O (outpatient) |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | v/STA DESCRIPTION |
|-----|-----|----|-----|------|------|---------------------------|---|
| 3 | 12 | CM | | | | Assigned Patient Location | Not used |
| 4 | 4 | ID | | | 0007 | Admission Type | <i>Refer to Table SD009 (Purpose of Visit)</i> |
| 5 | 20 | ST | | | | Preadmit Number | Not used |
| 6 | 12 | CM | | | | 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 | CM | | | | 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 | <i>Refer to Table 0023 (Location of Visit)</i> |
| 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 | CM | | 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 |
| 29 | 1 | ID | | | 0110 | Transfer to Bad Debt Code | Not used |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | v/STA DESCRIPTION |
|-----|-----|----|-----|------|------|---------------------------|----------------------------|
| 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 | CM | | | 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 | CM | | | | Pending Location | Not used |
| 43 | 12 | CM | | | | 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 | CM | | | | Alternate Visit ID | Unique Identifier (PCE) |

⁶ According to the HL7 standard, the maximum length of this element is 2.

15.6.3 PV2 - Patient Visit - Additional Information Segment

Table 49: PV2 Additional Information Segment

| SEQ | LEN | DT | OPT | RP/# | TBL# | ITEM# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|-----|-----|------|------|-------|--------------------------------------|----------------------------|
| 1 | 80 | PL | C | | | 00181 | Prior Pending Location | Not used |
| 2 | 250 | CE | O | | 0129 | 00182 | Accommodation Code | Not used |
| 3 | 250 | CE | O | | | 00183 | Admit Reason | Not used |
| 4 | 250 | CE | O | | | 00184 | Transfer Reason | Not used |
| 5 | 25 | ST | O | Y | | 00185 | Patient Valuables | Not used |
| 6 | 25 | ST | O | | | 00186 | Patient Valuables Location | Not used |
| 7 | 2 | IS | O | Y | 0130 | 00187 | Visit User Code | Not used |
| 8 | 26 | TS | O | | | 00188 | Expected Admit Date/Time | Not used |
| 9 | 26 | TS | O | | | 00189 | Expected Discharge Date/Time | Not used |
| 10 | 3 | NM | O | | | 00711 | Estimated Length of Inpatient Stay | Not used |
| 11 | 3 | NM | O | | | 00712 | Actual Length of Inpatient Stay | Not used |
| 12 | 50 | ST | O | | | 00713 | Visit Description | Not used |
| 13 | 250 | XCN | O | Y | | 00714 | Referral Source Code | Not used |
| 14 | 8 | DT | O | | | 00715 | Previous Service Date | Not used |
| 15 | 1 | ID | O | | 0136 | 00716 | Employment Illness Related Indicator | Not used |
| 16 | 1 | IS | O | | 0213 | 00717 | Purge Status Code | Not used |
| 17 | 8 | DT | O | | | 00718 | Purge Status Date | Not used |
| 18 | 2 | IS | O | | 0214 | 00719 | Special Program Code | Not used |
| 19 | 1 | ID | O | | 0136 | 00720 | Retention Indicator | Not used |
| 20 | 1 | NM | O | | | 00721 | Expected Number of Insurance Plans | Not used |
| 21 | 1 | IS | O | | 0215 | 00722 | Visit Publicity Code | Not used |
| 22 | 1 | ID | O | Y | 0136 | 00723 | Visit Protection Indicator | Visit Protection Indicator |
| 23 | 250 | XON | O | | | 00724 | Clinic Organization Name | Not used |
| 24 | 2 | IS | O | | 0216 | 00725 | Patient Status Code | Not used |

| SEQ | LEN | DT | OPT | RP/# | TBL# | ITEM# | ELEMENT NAME | VISTA DESCRIPTION |
|-----|-----|----|-----|------|------|-------|--|-------------------|
| 25 | 1 | IS | O | | 0217 | 00726 | Visit Priority Code | Not used |
| 26 | 8 | DT | O | | | 00727 | Previous Treatment Date | Not used |
| 27 | 2 | IS | O | | 0112 | 00728 | Expected Discharge Disposition | Not used |
| 28 | 8 | DT | O | | | 00729 | Signature on File Date | Not used |
| 29 | 8 | DT | O | | | 00730 | First Similar Illness Date | Not used |
| 30 | 250 | CE | O | | 0218 | 00731 | Patient Charge Adjustment Code | Not used |
| 31 | 2 | IS | O | | 0219 | 00732 | Recurring Service Code | Not used |
| 32 | 1 | ID | O | | 0136 | 00733 | Billing Media Code | Not used |
| 33 | 26 | TS | O | | | 00734 | Expected Surgery Date and Time | Not used |
| 34 | 1 | ID | O | | 0136 | 00735 | Military Partnership Code | Not used |
| 35 | 1 | ID | O | | 0136 | 00736 | Military Non-Availability Code | Not used |
| 36 | 1 | ID | O | | 0136 | 00737 | Newborn Baby Indicator | Not used |
| 37 | 1 | ID | O | | 0136 | 00738 | Baby Detained Indicator | Not used |
| 38 | 250 | CE | O | | 0430 | 01543 | Mode of Arrival Code | Not used |
| 39 | 250 | CE | O | Y | 0431 | 01544 | Recreational Drug Use Code | Not used |
| 40 | 250 | CE | O | | 0432 | 01545 | Admission Level of Care Code | Not used |
| 41 | 250 | CE | O | Y | 0433 | 01546 | Precaution Code | Not used |
| 42 | 250 | CE | O | | 0434 | 01547 | Patient Condition Code | Not used |
| 43 | 2 | IS | O | | 0315 | 00759 | Living Will Code | Not used |
| 44 | 2 | IS | O | | 0316 | 00760 | Organ Donor Code | Not used |
| 45 | 250 | CE | O | Y | 0435 | 01548 | Advance Directive Code | Not used |
| 46 | 8 | DT | O | | | 01549 | Patient Status Effective Date | Not used |
| 47 | 26 | TS | C | | | 01550 | Expected LOA Return Date/Time | Not used |
| 48 | 26 | TS | O | | | 01841 | Expected Pre-admission Testing Date/Time | Not used |

15.6.4 DG1 - Diagnosis Information Segment

Table 50: 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 | TS | | | | 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. |

| 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

Table 51: Procedure Information Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | V/STA 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 | 3 Components: 1. Procedure Code 2. Corresponding procedure description from CPT file (#81) 3. Coding Method (this will always be C4) Refer to Table 0088 for sample listing of possible procedure codes and descriptions. |
| 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 | CM | | 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 |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | V/STA 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 52: Role Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | V/STA DESCRIPTION |
|-----|-----|-----|-----|------|------|------------------|---|
| 1 | 60 | EI | R | | | Role Instance ID | <u>4 Components</u> Entity Identifier ^{7 8} 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 | <u>14 Components</u> Repetition 1 <u>2 Sub-Components</u> Pointer to entry in NEW PERSON file (#200) Facility Number Not used Not used Not used Not used |

⁷ 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)

⁸ 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 | V/STA DESCRIPTION |
|-----|-----|----|-----|------|------|----------------------|---|
| | | | | | | | Not used Not used This will always be VA200 (NEW PERSON file) Not used 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 SSA (Social Security Administration) Not used Not used Not used Not used Not used Not used |
| 5 | 26 | TS | O | | | Role Begin Date/Time | Not used |
| 6 | 26 | TS | O | | | Role End Date/Time | Not used |
| 7 | 80 | CE | O | | | Role Duration | Not used |
| 8 | 80 | CE | O | | | Role Action Reason | Not used |

15.6.7 ZPD - VA-Specific Patient Information Segment

Table 53: VA-Specific Patient Information Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | V/STA 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 ⁹ |
| 15 | 3 | ID | | | VA08 | RELIGION ¹⁰ |
| 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 |

⁹ This element is also found in the Patient Identification (PID) segment.

¹⁰ This element is also found in the Patient Identification (PID) segment.

15.6.8 ZEL - VA-Specific Patient Eligibility Segment

Table 54: ZEL – VA-Specific Patient Eligibility Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | V/STA ELEMENT NAME |
|-----|-----|----|-----|------|------------|--|
| 1 | 4 | SI | R | | | SET ID |
| 2 | 2 | ID | | | VA04 | ELIGIBILITY CODE |
| 3 | 16 | CK | | | | 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 |

| SEQ | LEN | DT | R/O | RP/# | TBL# | V/STA ELEMENT NAME |
|-----|-----|----|-----|------|------------|--|
| 27 | 8 | DT | | | | AGENT ORANGE EXAM DATE |
| 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

Table 55: VA-Specific Income Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | VISTA 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 |

15.6.10 ZCL - VA-Specific Outpatient Classification Segment

Table 56: ZCL – VA-Specific Outpatient Classification Segment

| 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 57: ZSC – VA-Specific Stop 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 |
| 3 | 30 | ST | | | SD00 | Name |

| SEQ | LEN | DT | R/O | RP/# | TBL# | VISTA ELEMENT NAME |
|-----|-----|----|-----|------|------|-----------------------------------|
| | | | | | 1 | |
| 4 | 1 | NM | | | | Cost Distribution Center |
| 5 | 1 | ID | | | | Current Exempt. Fr Classification |

15.6.12 ZSP - VA-Specific Service Period Segment

Table 58: ZSP – VA-Specific Service Period Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | VISTA 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

Table 59: ZEN – VA-Specific Enrollment Segment

| SEQ | LEN | DT | R/O | RP/# | TBL# | VISTA 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 | TX | | | | CANCELED/DECLINED REMARKS |
| 7 | 7 | ID | | | VA011 5 | FACILITY RECEIVED |
| 8 | 7 | ID | | | VA011 5 | PRIMARY FACILITY |

| SEQ | LEN | DT | R/O | RP/# | TBL# | V/STA ELEMENT NAME |
|-----|-----|----|-----|------|------------|---------------------|
| 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 |
| ZPD | VA-Specific Patient Information |
| ZEL | VA-Specific Patient Eligibility Information |
| ZIR | VA-Specific Income |
| { ZCL } | VA-Specific Outpatient Classification |
| { ZSC } | VA-Specific Stop Code |
| ZSP | VA-Specific Service Period |
| ZEN | VA Specific Enrollment |
| ACK | General Acknowledgment Message |
| MSH | Message Header |
| MSA | Message Acknowledgment |

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 60: Table 0001 – Sex

| VALUE | DESCRIPTION |
|-------|-------------|
| F | FEMALE |
| M | MALE |
| O | OTHER |
| U | UNKNOWN |

15.9.2 TABLE 0002 - MARITAL STATUS

Table 61: Table 0002 – Marital Status

| VALUE | DESCRIPTION |
|-------|-------------|
| A | SEPARATED |
| D | DIVORCED |
| M | MARRIED |
| S | SINGLE |
| W | WIDOWED |

15.9.3 TABLE 0003 - EVENT TYPE CODE

Table 62: Table 0003 – Event Type Code

| VALUE | DESCRIPTION |
|-------|----------------------------|
| A08 | UPDATE PATIENT INFORMATION |
| A23 | DELETE PATIENT RECORD |

15.9.4 TABLE 0008 - ACKNOWLEDGMENT CODE

Table 63: Table 0008 – Acknowledgment Code

| VALUE | DESCRIPTION |
|-------|-----------------------------|
| AA | APPLICATION ACKNOWLEDGMENT: |

| VALUE | DESCRIPTION |
|-------|---|
| | ACCEPT |
| AE | APPLICATION ACKNOWLEDGMENT: ERROR |
| AR | APPLICATION ACKNOWLEDGMENT: REJECT |
| CA | ACCEPT ACKNOWLEDGMENT: COMMIT ACCEPT |
| CE | ACCEPT ACKNOWLEDGMENT: COMMIT ERROR |
| CR | ACCEPT ACKNOWLEDGMENT: COMMIT REJECT |

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 INTERMEDIATE 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) |

15.9.11 TABLE 0133 - PROCEDURE PRACTITIONER TYPE (USER DEFINED)

Sample listing of possible values.

| VALUE | OCCUPATION | SPECIALTY | SUBSPECIALTY |
|---------|---|---|--------------------|
| 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 | Physicians (M.D.) and Osteopaths (D.O.) | Allergy and Immunology Clinical and Laboratory | |
| 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 | Physicians (M.D.) and Osteopaths (D.O.) | Anesthesiology | Pain Management |

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 |

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| | | |
|------|------------------|--|
| 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 | UNSCHEDED. VISIT | COMPENSATION & PENSION |
| 0402 | UNSCHEDED. VISIT | CLASS II DENTAL |
| 0403 | UNSCHEDED. VISIT | ORGAN DONORS |
| 0404 | UNSCHEDED. VISIT | EMPLOYEE |
| 0405 | UNSCHEDED. VISIT | PRIMA FACIA |
| 0406 | UNSCHEDED. VISIT | RESEARCH |
| 0407 | UNSCHEDED. VISIT | COLLATERAL OF VET. |
| 0408 | UNSCHEDED. VISIT | SHARING AGREEMENT |
| 0409 | UNSCHEDED. VISIT | REGULAR |
| 0411 | UNSCHEDED. VISIT | SERVICE CONNECTED |

15.9.16 TABLE VA01 - YES/NO

| VALUE | DESCRIPTION |
|-------|-------------|
| 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 |

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- 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

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 |

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- 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 VODOO
- 80 WICCA
- 81 YAOHUSHUA
- 82 ZOROASTRIANISM
- 83 ASKED BUT DECLINED TO ANSWER

15.9.24 TABLE VA10 - MEANS TEST INDICATOR

Table 64: Table VA10 – Means Test Indicator

| 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. |
| C | 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. |

| | |
|---|--|
| U | 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. |
|---|--|

15.9.25 TABLE VA11 - PERIOD OF SERVICE

| VALUE | DESCRIPTION |
|-------|----------------------------|
| 0 | KOREAN |
| 1 | WORLD WAR I |
| 2 | WORLD WAR II |
| 3 | SPANISH AMERICAN |
| 4 | PRE-KOREAN |
| 5 | POST-KOREAN |
| 6 | OPERATION DESERT SHIELD |
| 7 | VIETNAM ERA |
| 8 | POST-VIETNAM |
| 9 | OTHER OR NONE |
| A | ARMY - ACTIVE DUTY |
| B | NAVY, MARINE - ACTIVE DUTY |
| C | AIR FORCE - ACTIVE DUTY |
| D | COAST GUARD - ACTIVE DUTY |
| E | RETIRED, UNIFORMED FORCES |
| F | MEDICAL REMEDIAL ENLIST |
| G | MERCHANT SEAMEN - USPHS |
| H | OTHER USPHS BENEFICIARIES |
| I | OBSERVATION/EXAMINATION |
| J | OFFICE OF WORKERS COMP |
| K | JOB CORPS/PEACE CORPS |
| L | RAILROAD RETIREMENT |
| M | BENEFICIARIES-FOREIGN GOV |
| N | HUMANITARIAN (NON-VET) |
| O | CHAMPUS RESTORE |
| P | 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 |

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.)

| VALUE | DESCRIPTION |
|-------|--------------------|
| 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 |
| 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 |

17.7 Table 0076 - Message Type

| VALUE | DESCRIPTION |
|-------|-------------|
| 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.

18.4 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 (v2.3).

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 65: 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 | TS | | | | Date/Time Of Message | Date and time message was created. |
| 8 | 40 | ST | | | | Security | Not used |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-----|-----|----|-----|------|--------------|---------------------------------------|--|
| 9 | 7 | CM | 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 |

18.4.5 MSA – Message Acknowledgement Segment

Table 66: MSA – Message Acknowledgement Segment

| 2.3.1 | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-------|-----|----|-----|------|------|------------------------|---|
| 1 | 2 | ID | R | | 0008 | Acknowledgment Code | Refer to HL7 table 0008 |
| 2 | 20 | ST | R | | | Message Control ID | Message Control ID of the message being acknowledged. |

| 2.3.1 | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-------|-----|----|-----|------|------|-----------------------------|-------------------------|
| 3 | 80 | ST | O | | | Text Message | Free text error message |
| 4 | 15 | NM | O | | | Expected Sequence Number | Not used |
| 5 | 1 | ID | B | | 0102 | Delayed Acknowledgment Type | Not used |
| 6 | 100 | CE | O | | | Error Condition | Not used |

18.4.6 PID - Patient Identification Segment

Table 67: 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 | CK | | | | Patient ID (External ID) | Social Security Number field of Patient file. |
| 3 | 20 | CM | 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 |

| 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 | CK | | | | Patient Account Number | Not used |
| 19 | 16 | ST | | | | SSN Number – Patient | Social security number and pseudo indicator. |
| 20 | 25 | CM | | | | Driver's Lic Num – Patient | Not used |
| 21 | 20 | CK | | | | 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

Table 68: 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 | C | | | Placer Order Number | Not used |
| 3 | 22 | EI | C | | | 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 | CM | | | | Parent | Not used |
| 9 | 26 | TS | | | | 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 | TS | | | | 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 |

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-----|-----|-----|-----|------|------|--------------|-------------------|
| 19 | 120 | XCN | | | | Action By | Not used |

18.4.8 RQD-Requisition Detail Segment

Table 69: 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 | C | | | Item Code – Internal | Not used |
| 3 | 60 | CE | C | | | Item Code – External | NCMD Card ID (.01) field from VIC REQUEST (#39.6) file. |
| 4 | 60 | CE | C | | | 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 |

18.4.9 NTE – Notes and Comments

Table 70: NTE – Notes and Comments

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-----|-----------|----|-----|------|------|-------------------|--|
| 1 | 4 | SI | O | | | Set ID | Not used |
| 2 | 8 | ID | O | | 105 | Source of Comment | Not used |
| 3 | 6553 6 | FT | O | Y | | Comment | <p>1st 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.</p> <p>Example: POW:Y</p> <p>2nd 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.</p> <p>Example: PH:N</p> |
| 4 | 250 | CE | O | | 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^^^^^^^^^^^^^^^^222334444
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~002) message when the General Order Message (ORM~001) 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~002) message when the General Order Message (ORM~001) 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
```

18.8 Supported and User Defined HL7 Tables

18.8.1 Table 0003 - Event Type Code

| VALUE | DESCRIPTION |
|-------|----------------------|
| 001 | ORM – Order Message |
| 002 | 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

| VALUE | DESCRIPTION |
|-------|---------------|
| ORM | Order Message |

PIMS

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_\(MPI\)](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: Variable consisting of sequence numbers delimited by commas that will be used to 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 creating 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

Table 71: 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 | TS | | | | Date/Time Of Message | Date and time message was created. |

| | | | | | | | |
|----|-----|----|---|-----|--------------|---------------------------------|--|
| 8 | 40 | ST | | | | Security | Not used |
| 9 | 7 | CM | 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 72: 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 | | | 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 | TS | | | | Date/Time Of Message | Date and time message was created. |
| 8 | 40 | ST | | | | Security | Not used |
| 9 | 7 | CM | 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 |

PID - PATIENT IDENTIFICATION SEGMENT**Table 73: 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 | CK | | | | Patient ID (External ID) | Social Security Number field of Patient file. |
| 3 | 20 | CM | 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 |

| | | | | | | | |
|----|----|----|--|---|------|----------------------------|--|
| 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 | CK | | | | Patient Account Number | Not used |
| 19 | 16 | ST | | | | SSN Number – Patient | Social security number and pseudo indicator. |
| 20 | 25 | CM | | | | Driver's Lic Num – Patient | Not used |
| 21 | 20 | CK | | | | 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

Table 74: PDI – Patient Additional Demographic Segment

| SEQ | LEN | DT | OPT | RP/# | TBL# | ITEM# | ELEMENT NAME |
|-----|-----|----|-----|------|------|-------|--------------------------|
| 1 | 2 | IS | O | Y | 0223 | 00755 | Living Dependency |
| 2 | 2 | IS | O | | 0220 | 00742 | Living Arrangement |
| 3 | 250 | XO | O | Y | | 00756 | Patient Primary Facility |

| | | | | | | | |
|----|-----|-----|---|---|------|-------|---|
| | | N | | | | | |
| 4 | 250 | XCN | B | Y | | 00757 | Patient Primary Care Provider Name & ID No. |
| 5 | 2 | IS | O | | 0231 | 00745 | Student Indicator |
| 6 | 2 | IS | O | | 0295 | 00753 | Handicap |
| 7 | 2 | IS | O | | 0315 | 00759 | Living Will Code |
| 8 | 2 | IS | O | | 0316 | 00760 | Organ Donor Code |
| 9 | 1 | ID | O | | 0136 | 00761 | Separate Bill |
| 10 | 250 | CX | O | Y | | 00762 | Duplicate Patient |
| 11 | 250 | CE | O | | 0215 | 00743 | Publicity Code |
| 12 | 1 | ID | O | | 0136 | 00744 | Protection Indicator |
| 13 | 8 | DT | O | | | 01566 | Protection Indicator Effective Date |
| 14 | 250 | XON | O | Y | | 01567 | Place of Worship |
| 15 | 250 | CE | O | Y | 0435 | 01568 | Advance Directive Code |
| 16 | 1 | IS | O | | 0441 | 01569 | Immunization Registry Status |
| 17 | 8 | DT | O | | | 01570 | Immunization Registry Status Effective Date |
| 18 | 8 | DT | O | | | 01571 | Publicity Code Effective Date |
| 19 | 5 | IS | O | | 0140 | 01572 | Military Branch |
| 20 | 2 | IS | O | | 0141 | 00486 | Military Rank/Grade |
| 21 | 3 | IS | O | | 0142 | 01573 | Military Status |

PV1 PATIENT VISIT SEGMENT**Table 75: PVI Patient Visit Segment**

| SEQ | LE N | DT | OP T | RP/ # | TBL# | ITEM# | ELEMENT NAME |
|-----|---------|---------|---------|----------|------|-------|---------------------------|
| 1 | 4 | SI | O | | | 00131 | Set ID - PV1 |
| 2 | 1 | IS | R | | 0004 | 00132 | Patient Class |
| 3 | 80 | PL | O | | | 00133 | Assigned Patient Location |
| 4 | 2 | IS | O | | 0007 | 00134 | Admission Type |
| 5 | 250 | CX | O | | | 00135 | Preadmit Number |
| 6 | 80 | PL | O | | | 00136 | Prior Patient Location |
| 7 | 250 | XC N | O | Y | 0010 | 00137 | Attending Doctor |
| 8 | 250 | XC N | O | Y | 0010 | 00138 | Referring Doctor |
| 9 | 250 | XC N | B | Y | 0010 | 00139 | Consulting Doctor |
| 10 | 3 | IS | O | | 0069 | 00140 | Hospital Service |
| 11 | 80 | PL | O | | | 00141 | Temporary Location |
| 12 | 2 | IS | O | | 0087 | 00142 | Preadmit Test Indicator |
| 13 | 2 | IS | O | | 0092 | 00143 | Re-admission Indicator |
| 14 | 6 | IS | O | | 0023 | 00144 | Admit Source |
| 15 | 2 | IS | O | Y | 0009 | 00145 | Ambulatory Status |
| 16 | 2 | IS | O | | 0099 | 00146 | VIP Indicator |
| 17 | 250 | XC N | O | Y | 0010 | 00147 | Admitting Doctor |

| SEQ | LE N | DT | OP T | RP/ # | TBL# | ITEM# | ELEMENT NAME |
|-----|---------|---------|---------|----------|------|-------|---------------------------|
| 18 | 2 | IS | O | | 0018 | 00148 | Patient Type |
| 19 | 250 | CX | O | | | 00149 | Visit Number |
| 20 | 50 | FC | O | Y | 0064 | 00150 | Financial Class |
| 21 | 2 | IS | O | | 0032 | 00151 | Charge Price Indicator |
| 22 | 2 | IS | O | | 0045 | 00152 | Courtesy Code |
| 23 | 2 | IS | O | | 0046 | 00153 | Credit Rating |
| 24 | 2 | IS | O | Y | 0044 | 00154 | Contract Code |
| 25 | 8 | DT | O | Y | | 00155 | Contract Effective Date |
| 26 | 12 | NM | O | Y | | 00156 | Contract Amount |
| 27 | 3 | NM | O | Y | | 00157 | Contract Period |
| 28 | 2 | IS | O | | 0073 | 00158 | Interest Code |
| 29 | 4 | IS | O | | 0110 | 00159 | Transfer to Bad Debt Code |
| 30 | 8 | DT | O | | | 00160 | Transfer to Bad Debt Date |
| 31 | 10 | IS | O | | 0021 | 00161 | Bad Debt Agency Code |
| 32 | 12 | NM | O | | | 00162 | Bad Debt Transfer Amount |
| 33 | 12 | NM | O | | | 00163 | Bad Debt Recovery Amount |
| 34 | 1 | IS | O | | 0111 | 00164 | Delete Account Indicator |
| 35 | 8 | DT | O | | | 00165 | Delete Account Date |
| 36 | 3 | IS | O | | 0112 | 00166 | Discharge Disposition |
| 37 | 47 | DL D | O | | 0113 | 00167 | Discharged to Location |
| 38 | 250 | CE | O | | 0114 | 00168 | Diet Type |
| 39 | 2 | IS | O | | 0115 | 00169 | Servicing Facility |

| SEQ | LE N | DT | OP T | RP/ # | TBL# | ITEM# | ELEMENT NAME |
|-----|---------|---------|---------|----------|------|-------|---------------------------|
| 40 | 1 | IS | B | | 0116 | 00170 | Bed Status |
| 41 | 2 | IS | O | | 0117 | 00171 | Account Status |
| 42 | 80 | PL | O | | | 00172 | Pending Location |
| 43 | 80 | PL | O | | | 00173 | Prior Temporary Location |
| 44 | 26 | TS | O | | | 00174 | Admit Date/Time |
| 45 | 26 | TS | O | Y | | 00175 | Discharge Date/Time |
| 46 | 12 | NM | O | | | 00176 | Current Patient Balance |
| 47 | 12 | NM | O | | | 00177 | Total Charges |
| 48 | 12 | NM | O | | | 00178 | Total Adjustments |
| 49 | 12 | NM | O | | | 00179 | Total Payments |
| 50 | 250 | CX | O | | 0203 | 00180 | Alternate Visit ID |
| 51 | 1 | IS | O | | 0326 | 01226 | Visit Indicator |
| 52 | 250 | XC N | B | Y | 0010 | 01274 | Other Healthcare Provider |

MSA – MESSAGE ACKNOWLEDGEMENT SEGMENT**Table 76: MSA – Message Acknowledgement Segment**

| SEQ | LEN | DT | R/O | RP/# | TBL# | ELEMENT NAME | VistA DESCRIPTION |
|-----|-----|----|-----|------|------|-----------------------------|---|
| 1 | 2 | ID | R | | 0008 | 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 | O | | | Text Message | Free text error message |
| 4 | 15 | NM | O | | | Expected Sequence Number | Not used |
| 5 | 1 | ID | B | | 0102 | Delayed Acknowledgment Type | Not used |
| 6 | 100 | CE | O | | | Error Condition | Not used |

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]
```

| Patch Components: | | |
|--|---|----------------------|
| ----- | | |
| Files & Fields Associated: | | |
| File Name (Number) | Field Name (Number) | New/Modified/Deleted |
| ----- | ----- | ----- |
| 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 (sub-file #10.9901) | EFFECTIVE DATE/TIME (#.01) | New |
| EFFECTIVE DATE/TIME (sub-file #10.9901) | STATUS (.02) | New |
| MARITAL STATUS (#11) | MASTER MARITAL STATUS (#90) | New |
| MASTER MARITAL STATUS (#11.99) | REPLACED BY VHA STANDARD TERM (#99.97) | New |
| MASTER MARITAL STATUS (#11.99) | MASTER ENTRY FOR VUID (#99.98) | New |
| MASTER MARITAL STATUS (#11.99) | VUID (#99.99) | New |
| MASTER MARITAL STATUS (#11.99) | EFFECTIVE DATE/TIME (#99.991) | New |
| EFFECTIVE DATE/TIME (sub-file #11.9901) | EFFECTIVE DATE/TIME (#.01) | New |
| EFFECTIVE DATE/TIME (sub-file #11.9901) | STATUS (.02) | New |
| 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:

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: DGNSU

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 |
| CPT | 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) | <p>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.</p> <p>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.</p> |
| MH | Mental Health |
| MHA3 | Mental Health Assistant 3 package |
| MHTC | 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

