

Patient Appointment Information Transmission (PAIT)

Release Notes and Installation Guide

Patch SD*5.3*333

March 2004

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Department of Veterans Affairs VistA Health Systems Design and Development This page left blank intentionally

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Introduction

This patch contains several enhancements, modifications and a fix to the Patient Appointment Information Transmission, originally released in patch SD*5.3*290. A post install routine will delete all previous seeding and update data from file 409.6 and a new seeding run will be activated.

Data from all pending appointments within the range 9.01.2002 to present and data for final appointments, that meet specified criteria, beginning 9.01.2003 will be wrapped in HL7 batch messages and transmitted to the Austin Automation Center (AAC).

This additional data supplements the existing Clinic Appointment Wait Time extracts 1 & 2. At this time those extracts should continue to be transmitted on the 5th and 31st of each month as originally designated in SD*5.3*193. Further instructions will be provided when those transmissions will no longer be necessary.

The One –Time Option Queue from the Taskman Management menu will be used to start SD-PAIT TASKED TRANSMISSION on a scheduled date. Subsequent updating transmissions will be scheduled on 1st and 15th day of each month. The frequency of transmission may change based on reporting needs.

Description of Functionality

A bi-monthly Taskman job will collect and format data for HL7 batch transmission.

A set number of appointments, maximum of 5000, is collected in a temporary file. This file is used to create a HL7 batch transmission. After the batch data has been moved to the HL7 processing queue the temporary file is deleted and the process of generating data for transmission continues until all required data is generated and transmitted. The design allows for an immediate transmission after generation of partial data, and prevents the temporary file from becoming too large. The process is repeated until all required data is generated and transmitted.

Follow up transmissions begin scanning appointment data created from the day following the last scanned date saved at the end of each transmission in the last Scanned Date field (# 1.2) of the PATIENT APPOINTMENT INFO LOG file. Appointment statuses of previously transmitted data is also checked for final status values, (see SCH.25 Filler Status in the Interface Appendix). Entries in file 409.6 sent with the final status will be deleted after an HL7 acknowledgement of the successful transmission is received.

Changes introduced with SD*5.3*333 patch

This patch contains significant enhancements, modifications and a fix to the Patient Appointment Information Transmission - PAIT. The majority of enhancements are related to message transmission and tracking.

The transmission process involves several steps and makes use of new technology – the VistA Interface Engine .

- Transmission to a local VistA Interface Engine
- Transmission to the clustered Interface Engine at the AAC
- Transmission and conversion of data to the AAC to create SAS files

A thorough review of all steps and the quality of data pointed us to the following enhancements, modifications and a fix:

1. Utilization of the server functionality of VA Mailman and creation of a server option on Forum that will receive PAIT and AAC messages related to transmission and acknowledgements. Selected data elements from transmission and acknowledgement messages are parsed and filed in the PAIT TRANSMISSION LOG file (# 409.8) hosted on Forum. Report options provide transmission verification and history for all VA sites.

Field	Description	
DATE/TIME	the date/time a transmission mail message is received by the FORUM server option SD-PAIT-SERVER	
MESSAGE TYPE	 this field records the type of message received: A - Site Batch acknowledgement B - Site Background job transmission completion M - Missing sites report FROM AAC T – Transmitted sites report from AAC 	
SITE NUMBER	a unique three digits facility site number	
LOG NUMBER	the log entry number of the transmission; this is the run entry number of the PATIENT multiple field in file 409.6	
RUN COMPLETIC January 2009	ON DATE the date/time of the completed SD*5.3*333 Release Notes	

	transmission; this is the TRANSMISSION FINISHED field (#1.5) of 409.6 file
# OF BATCHES	the number of batch messages transmitted from the site.
# OF APPOINTMENTS	the number of appointments included in all created batches.
IP ADDRESS	the IP address of the Vitria Interface Engine set up at the PAIT transmission site.
BATCHES GENERATED	the number of HL7 messages generated by the PAIT transmissions and recorded in SD-PAIT Logical Link; this number may include batches from the previous transmissions.
BATCHES SENT	the number of HL7 messages sent to the local Interface Engine and recorded in the SD-PAIT Logical Link.
STATUS	the status indicated by a received Message A or B: A – status of the acknowledgement completion B – status of the SD-PAIT Logical Link at the end of transmission
HL7 MESSAGE ID	This field records the HL7 Message ID of received acknowledgement.
BATCH CONTROL ID	This field records the HL7 Batch ID of received acknowledgement.
RUN ACK STATUS	the ACK Status - the number ACK's received by HL7 vs the number of messages (batches) sent .
ACKS COMPLETE	this field is marked YES if all ACK's for a PAIT transmission are received.

2. Detailed information related to each transmission will be permanently stored in file 409.6

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- 1.4 **#** OF BATCHES
- 1.5 TRANSMISSION FINISHED
- 2 PATIENT <-Mult [409.69P
- 9 CLINIC pointer to the HOSPITAL LOCATION file
- 3 BATCH TRACKING <-Mult [409.7A]
- 01 BATCH CONTROL ID
- 02 BATCH CREATE DATE/TIME
- 03 MESSAGE CONTROL ID
- 04 APPLICATION ACK DATE/TIME
- 05 APPLICATION ACK TYPE
 - 3 New report options for the site to print both the Transmission Summary and Acknowledgement Summary.
 - 4.. New option SD-PAIT MANUAL BATCH REJECT to be used if a batch was not accepted by the AAC, was sent from VistA and the whole batch rejection has not been received.

Note: In a future enhancement it is anticipated to generate the whole batch rejection from the AAC, after comparison of batch control number ID, sent from VistA with received by the AAC.

5. To enhance the quality of data the following changes are introduced:

New components are added to SCH.11, SCH6, and SCH.7 segments of HL7 transmission.

VALUE	DESCRIPTION
CI	Check-in
СО	Check-out
NS	No Show
CC	Cancel by clinic
CP	Cancel by patient
COE	Check-out by encounter
NM	No Match
СТ	Cancelled Terminated

Table VA087 - Scheduling Event Reason

CT is the Event Reason to finalize an appointment that was sent as pending and then, during the update process a new appointment is created for the same date and time. That situation caused the previous appointment record to be overridden by the new appointment record with a new creation date.

VALUE	DESCRIPTION
1	Next Ava. Appt. Indicated by User
2	Next Ava. Appt. Indicated by Calculation
3	Next Ava. Appt. Indicated by User & Calculation
4	Not Next Available with AutoRebook
5	Not Next Available No AutoRebook
6	Null (All others)

Table 0276 - Appointment Reason Codes

Appointment Reason Code table includes new six values instead of the previous "N" and "A" only. It will allow for more detailed sorting criteria, especially when calculating the next available time.

2.3.9 SCH Schedule Activity Information

SEQ	LE N	DT	R/O/C	RP /#	TBL#	ITEM #	ELEMENT NAME	VISTA DESCRIPTION
1	75	EI	R			00860	Placer Appointment ID	Sequential Number
11	200	ΤQ	0	Y		00884	Appointment Timing Quantity	In the following order: Date Appt Created Desired Date Appt Date (time) Checkout Date (time) Cancellation Date (time) Auto-rebook Date (time) Resched Date(time) Consult Request Date (time)

Resched (uled) **Date (time)** was added as the scheduled Appointment Date/Time of the appointment created as a continuation of previously canceled appointment. This components is always sent when the RS – Re-scheduled Appointment Type is identified. Including that new component will help to identify the follow-up appointments in the AAC.

Consult Request Date (time) was added as a new sequence identifying an optional date/time of the consultation if there is one associated with the appointment.

Table VA0021 – Enrollment Priority

VALUE	DESCRIPTION
8	Priority 8

The indicated change applies only to the table description, the indicated value was used before.

Table 0277 - Appointment Type Codes

VALUE	DESCRIPTION
0	Outpatient

The indicated change applies only to the table description, the indicated value was used before.

6. The logic of generating appointments from the update runs has been modified to start from scanning newly created records and then to update the previous pending appointments, if applicable. Also the last scanned date is the last date before the start of transmission, to avoid possible duplications.

The message generated at the end of transmission will contain additional information.

Subj: 500 - PAIT BACKGROUND JOB [#	151708] 01/23/04@11:32 lin	nes
The PAIT job has completed - TASK #	: 60720 Log #: 1 on 1/23/04	4@11:32
Pending appointments: 10054 Final appointments: 1534		
Total appointments: 11588	Number of batches: 3	
Fac Log Bch Appt # Date finished	IP Address Gen Sent Com H	R Com P Status
500 1 3 11588 1/23/04@11:32 1	0.88.63.68 7 6 6	6 6 Enabled

This message will be sent also to S.SD-PAIT-<u>SERVER@FORUM.VA.GOV</u> and to the National Help Desk, if number of generated and sent batches indicates that there is potential problem in communication between VistA site and its local Interface Engine. In this situation additional warning messages may be sent.

7. Error codes for a possible rejection have been evaluated, modified and added by the AAC. The increased number of error code forced us to use a pointer to the PCMM Error Code file with adding the codes related to the PAIT.

Table AAC001 - Elloi Coue Set					
VALUE	DESCRIPTION				
100	PATIENT DFN IS NOT NUMERIC OR IS MISSING				
150	CLINIC IEN IS NOT NUMERIC OR IS MISSING				
200	BHS STATION NUMBER AND STA3N ARE NOT EQUAL				
250	INVALID OR MISSING BHS STATION NUMBER				
300	INVALID OR MISSING STA3N				
350	HL7 DATE IS NOT IN PROPER FORMAT OR IS MISSING.				
400	DOB IS MISSING OR INVALID				
450	CREATE DATE OR APPT DATE IS MISSING				
500	CREATION DATE IS BEFORE SEPTEMBER 1, 2002				
600	RESCHEDULED DATE AND APPT TYPE ARE NOT IN				
	AGREEMENT - Rescheduled date requires SCH.8 Appt type				
	= 'RS' and vice versa				
650	CHECK OUT DATE AND EVENT REASON ARE NOT IN				
	AGREEMENT - Check out date requires either SCH.6 Event				
	reason = 'CO' or 'COE'				
700	CANCELLATION DATE AND EVENT REASON ARE NOT				
	IN AGREEMENT - Cancellation date requires SCH.6 Event				
	reason = 'CC' or 'CP' or 'NS'				
750	EVENT REASON AND FILLER STATUS ARE NOT IN				
	AGREEMENT - All SCH.6 Event reason codes, except 'CI'				
	require SCH.25 Filler status to be 'F' Final and accordingly				
	only 'CI' and NULL should have SCH.25 Filler status to be				
	'P' Pending				
800	FILLER STATUS IS MISSING OR IS INVALID				
850	ADMIT TYPE IS INVALID (table SD009)				
R	WHOLE BATCH REJECTED				

Table AAC001 - Error Code Set

 $R-Whole \ Batch \ Reject \ may be used with the manual batch rejection.$

8. Application acknowledgements will be recognized by messages sent both to a local SD-PAIT Mail Group and to S.SD-PAIT-<u>SERVER@FORUM.VA.GOV</u>

9. New and updated SORT/PRINT TEMPLATES (See Technical Information).

10. Independent reports, reflecting the transmission status, have been developed both by the AAC and Messaging and Interface Services Team.

11. Conversion data to HL7 formats have been verified and corrected.

12. The Release Notes have been updated with additional, detailed, functional and technical information.

Installation

This patch has **POST INSTALL INSTRUCTIONS** that must be completed.

Documentation, Release Notes & Installation Guide:

SD_53_P333_RN.PDF

KIDS Host File:

SD_53_P333.KID

The preferred method is to FTP the file from:

download.vista.med.va.gov

which will transmit the files from the first available FTP server.

The files may also be downloaded directly from a particular FTP location at the following locations.

REDACTED REDACTED REDACTED

REDACTED

This patch may be installed with users on the system. Installation will take less than 2 minutes.

Use the 'LOAD A DISTRIBUTION' option on the KERNEL INSTALLATION & DISTRIBUTION menu. The host file name is SD_53_P333.KID. Answer YES to the question: 'Want to Continue with the Load? YES//']

Review your mapped set. If any of the routines listed in the ROUTINE SUMMARY section are mapped, they should be removed from the mapped set at this time.

From the Kernel Installation and Distribution System Menu, select the Installation menu.

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From this menu, you may elect to use the following options (when prompted for INSTALL NAME, enter SD*5.3*333):

Backup a Transport Global – this option will create a backup message of any routines exported with the patch. It will NOT backup any other changes such as DDs or templates.

Compare Transport Global to Current System - this option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines, DDs, templates, etc.).

Verify Checksums in Transport Global – this option will allow you to ensure the integrity of the routines that are in the transport global.

Print Transport Global – this option will allow you to view the components of the KIDS build.

Use the Install Package(s) option and select the package SD*5.3*333.

Select Installation Option: 6 Install Package(s)

Select INSTALL NAME: SD*5.3*333 Loaded from Distribution MM/DD/YYYY => SD*5.3*333

This Distribution was loaded on MM/DD/YYYY with header of SD*5.3*333 It consisted of the following Install(s): SD*5.3*333 Checking Install for Package SD*5.3*333

Incoming Files:

404.472 PCMM HL7 ERROR CODE (including data) Note: You already have the 'PCMM HL7 ERROR CODE' File. I will OVERWRITE your data with mine.

409.6 PATIENT APPOINTMENT INFO LOG Note: You already have the 'PATIENT APPOINTMENT INFO LOG' File.

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Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Want KIDS to INHIBIT LOGONs during the install? YES// NO Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages. You can queue the install by enter a 'Q' at the device prompt. Enter a '^' to abort the install Press Return.

If routines were unmapped as part of step 2, they should be returned to the mapped set once the installation has run to completion.

SD-PAIT REPORTS option is a stand alone menu and should be assigned to the appropriate users who monitor patient appointment wait times. SD-PAIT MANUAL TRANSMISSION should be assigned to an IRM staff member or HAS ADPAC.

Sample Installation:

Select Installation Option: INstall Package(s) Select INSTALL NAME: SD*5.3*333 Loaded from Distribution 1/28/04@14:32:01 => SD*5.3*333 This Distribution was loaded on Jan 28, 2004@14:32:01 with header of SD*5.3*333 It consisted of the following Install(s): SD*5.3*333 Checking Install for Package SD*5.3*333 Incoming Files: 404.472 PCMM HL7 ERROR CODE (including data) Note: You already have the 'PCMM HL7 ERROR CODE' File. I will OVERWRITE your data with mine. 409.6 PATIENT APPOINTMENT INFO LOG Note: You already have the 'PATIENT APPOINTMENT INFO LOG' File. Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO Want KIDS to INHIBIT LOGONS during the install? YES// NO Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO January 2009 SD*5.3*333 Release Notes

Enter the Device you want to print the Install messages. You can queue the install by enter a 'Q' at the device prompt. Enter a '^' to abort the install. DEVICE: HOME// UCX/TELNET Install Started for SD*5.3*333 : Jan 28, 2004@14:37:19 Build Distribution Date: Jan 28, 2004 Installing Routines: Jan 28, 2004@14:37:19 Installing Data Dictionaries: Jan 28, 2004@14:37:20 Installing Data: Jan 28, 2004@14:37:20 Installing PACKAGE COMPONENTS: Installing PRINT TEMPLATE Installing SORT TEMPLATE SD*5.3*333 Installing PROTOCOL Installing OPTION Jan 28, 2004@14:37:21 Updating Routine file... Updating KIDS files... SD*5.3*333 Installed.

Install Message sent #1852746

Jan 28, 2004@14:37:21

	Γ			
100%	25	50	75	
Complete				

Install Completed

Post Installation Instructions

Run Post Init Routine SDP333P

From the programmer prompt run routine SDP333P

BAY>D ^SDP333P

SD*5.3*333 POST INIT Clean-Up file 409.6? NO// ?

ATTENTION: Answering 'YES' will delete all entries from file 409.6 (Patient Appointment Information Transmission). This is CORRECT for a first installation of the patch. If you are re-installing the patch and want to keep the entries in 409.6 answer 'NO' If this is the first installation of the patch answer 'YES'

Clean-Up file 409.6? NO// YES PAIT Clean-UP Task Submitted. Task number: nnnnn Members of the SD-PAIT mail group will receive a notification message when the clean-up job has completed.

Example Mail Message:

Subj: PAIT Clean-Up [#152206] 02/03/04@10:25 3 lines From: POSTMASTER In 'IN' basket. Page 1 *New*

The PAIT Clean-Up, task #nnnn, from the post installation of SD*5.3*333 has completed. You may resume post installation activities.

Enter message action (in IN basket): Ignore//

Post init routine, SDP333P, may be deleted after clean-up has completed.

Insure the SD-PAIT logical link is **ENABLED**:

Select HL7 Main Menu Option:

Systems Link Monitor Filer and Link Management Options ... Message Management Options ... Interface Developer Options ... Site Parameter Edit

Select HL7 Main Menu Option: Filer and Link Management Options January 2009 SD*5.3*333 Release Notes

- SM Systems Link Monitor
- FM Monitor, Start, Stop Filers
- LM TCP Link Manager Start/Stop
- SA Stop All Messaging Background Processes
- RA Restart/Start All Links and Filers
- DF Default Filers Startup
- SL Start/Stop Links
- PI Ping (TCP Only)
- ED Link Edit
- ER Link Errors ...

Select Filer and Link Management Options Option: SL Start/Stop Links

This option is used to launch the lower level protocol for the appropriate device. Please select the node with which you want to communicate

Select HL LOGICAL LINK NODE: SD-PAIT

This LLP has been enabled!

SM Systems Link Monitor FΜ Monitor, Start, Stop Filers TCP Link Manager Start/Stop LM Stop All Messaging Background Processes SA Restart/Start All Links and Filers RA DF Default Filers Startup SL Start/Stop Links Ping (TCP Only) ΡI ED Link Edit Link Errors ... ER Select Filer and Link Management Options Option: SL Start/Stop Links This option is used to launch the lower level protocol for the appropriate device. Please select the node with which you want to communicate Select HL LOGICAL LINK NODE: SD-PAIT This LLP has been enabled!

Edit the new SD-PAIT logical link:

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Systems Link Monitor Filer and Link Management Options ... Message Management Options ... Interface Developer Options ... Site Parameter Edit

Select HL7 Main Menu Option: Interface Developer Options

- EA Application Edit
- EP Protocol Edit
- EL Link Edit
- VI Validate Interfaces Reports ...

Select Interface Developer Options Option: EL Link Edit

Select HL LOGICAL LINK NODE: SD-PAIT

	HL7 LOGICAL LINK
NODE:	SD-PAIT
INSTITUTION:	
DOMAIN:	
AUTOSTART:	Enabled
QUEUE SIZE:	10
LLP TYPE:	TCP

Γ	HL7 LOGICAL LINK						
		TCP LOWER LEVEL PARAMETERS					
	TCP/IP SERVICE TYPE: TCP/IP ADDRESS: TCP/IP PORT:	CLIENT (SENDER)					
	ACK TIMEOUT: READ TIMEOUT: BLOCK SIZE:	RE-TRANSMISION ATTEMPTS: EXCEED RE-TRANSMIT ACTION: SAY HELO:					
	STARTUP NODE: RETENTION:	PERSISTENT: UNI-DIRECTIONAL WAIT:					

Enter the TCP/IP ADDRESS of your VistA Interface Engine

See Appendix B to determine your sites I.P. Address for the Interface Engine.

Enter the TCP/IP PORT – 9270

HL7 LO	JICAL LINK
TCP LOW SD-PAIT	ER LEVEL PARAMETERS-
TCP/IP SERVICE TYPE: CLIENT TCP/IP ADDRESS: Your TCP/IP PORT: 9270	(SENDER) Vitria Interface IP
ACK TIMEOUT: READ TIMEOUT: BLOCK SIZE:	RE-TRANSMISION ATTEMPTS: 3 EXCEED RE-TRANSMIT ACTION: SAY HELO: NO
STARTUP NODE: RETENTION:	PERSISTENT: UNI-DIRECTIONAL WAIT:

To begin the initial March 15th seeding run use Taskman option "One-time Option
Queue" and select option SD-PAIT TASKED TRANSMISSION.January 2009SD*5.3*333 Release Notes21

When prompted 'Does this option need a DEVICE? NO//' press return.

When prompted 'Enter Particular Volume set if needed:' press return.

When prompted 'Requested Start Time: NOW//' press return. Optionally, you may elect to schedule the initial seeding run to begin during off peak hours.

The initial seeding run will be executed only once, on March 15, 2004.

```
Schedule/Unschedule Options
          One-time Option Queue
          Taskman Management Utilities ...
          List Tasks
          Dequeue Tasks
          Requeue Tasks
          Delete Tasks
          Print Options that are Scheduled to run
          Cleanup Task List
          Print Options Recommended for Queueing
Select Taskman Management Option: ONe-time Option Queue
You can only select OPTION's that have the SCHEDULING RECOMMENDED
field set to YES or STARTUP.
Select OPTION NAME: SD-PAIT TASKED TRANSMISSION
                                                      Taskman PAIT Transmission
Does this option need a DEVICE? NO//
Enter Particular Volume set if needed:
Requested Start Time: NOW//
```

Using Taskman option Schedule/Unschedule Options schedule option SD-PAIT TASKED TRANSMISSION to run the 1st and 15th of every month. It is important to schedule the first tasked run to begin on 4.01.2004 (time is site selectable). This establishes the bi-monthly transmission schedule with the first transmission taking place on 4.01.2004

If your TASKED TRANSMISSION does not start on the 1^{st} or 15^{th} contact the National Help Desk (1 888 596 4357) before re-scheduling the transmission on a day other than the 1^{st} or the 15^{th} .

Edit Option Schedule Option Name: SD-PAIT TASKED TRANSMISSION Menu Text: Taskman PAIT Transmission	TASK ID: 61403
QUEUED TO RUN AT WHAT TIME: APR 1, 2004@04:00 DEVICE FOR QUEUED JOB OUTPUT: QUEUED TO RUN ON VOLUME SET: RESCHEDULING FREQUENCY: 1M(1,15) TASK PARAMETERS: SPECIAL QUEUEING:	QUEVED TO RUN AT WHAT TIME FIELD 1st scheduled run date should be 4/01/2004. Time is site selectable
Only enter a DEVICE if the job needs an output device	e.

A MailMan message addressed to the SD-PAIT mail group will confirm completion of the tasked job.

User Options

Option "SD-PAIT REPORTS PAIT Reports Menu" provides four reports:

SD-PAIT PENDING SD-PAIT REJECTED SD-PAIT ACK SUMMARY SD-PAIT TRANSMISSION SUMMARY Pending Transmissions Rejected Transmissions Acknowledgement Summary Transmission Summary

Pending Transmissions will list all transmitted HL7 messages whose status is Pending, but not designated as a future appointment. This report is a diagnostic tool useful for follow-up of inpatient appointments that have not been dispositioned.

Rejected Transmissions will list all transmitted HL7 messages that have been rejected by the AAC. The AAC will reject messages in which the data is not correctly formatted. Entries on this list warrant a review by the MAS ADPAC to validate patient demographic data.

Acknowledgement Summary lists all batches in Batch Control ID order. The report also indicates the Message Control ID, the Acknowledgement Date, and Acknowledgement Type.

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Transmission Summary report may be used to determine the total number of patient appointment records, the run date, total number of batches, Batch Control ID, Message Control ID, and date/time stamp.

Option "SD-PAIT MANUAL TRANSMISSION Manual Startup PAIT Transmission" can be used to start a transmission if needed

MailMan Messages

MailMan notification messages are generated for two events.

1. Background processing has completed:

```
Subj: 500 - PAIT BACKGROUND JOB [#151708] 01/23/04@11:32
lines
The PAIT job has completed - TASK #: 60720 Log #: 1 on
1/23/04@11:32
Pending appointments: 10054
Final appointments: 1534
Total appointments: 11588 Number of batches: 3
Fac Log Bch Appt # Date finished IP Address Gen Sent Com R Com P Status
500| 1| 3| 11588|1/23/04@11:32|10.88.63.68| 7| 6| 6| Enabled
```

Legend:

Fac	- VistA Site Facility Number
Log	- Run number
Bch	- Number of generated batches
Appt #	- Number of Appointments
Date finished	- Date/time when the transmission has finished
IP Address	- IP Address of HL Logical Link "SD_PAIT"
Gen	- Number of batches generated (including previous
transmissions)
Send	- Number of all sent batches (including previous transmissions)
Com R	- Number of Commit Ack Received
Com P	- Number of Commit Ack Processed
Status	- Status of 'SD-PAIT" link at the end of transmission

2. Batch acknowledgement message from the AAC is received by the local HL7 package:

SD*5.3*333 Imports the following components:

POST-INIT ROUTINE

SDP333P (May be deleted after install)

FILES - updated

409.6 PATIENT APPOINTMENT INFO LOG404.472 PCMM HL7 ERROR CODE FILE

GLOBALS

^SDWL(409.6 ^SCPT(404.472,

NEW AND MODIFIED PRINT TEMPLATES

SD-PAIT PAIT ACK SUMMARY SD-PAIT PATIENT PENDING APPT SD-PAIT REJECTED APPT SD-PAIT TRANS SUMMARY

NEW AND MODIFIED SORT TEMPLATES

SD-PAIT PAIT ACK SOR SD-PAIT PEND EXCL FUTURE SD-PAIT REJECTED APPT SD-PAIT TRANS SUMMARY

MAIL GROUP

SD-PAIT

MODIFIED ROUTINES

SDRPA00 SDRPA05 SDRPA06 SDRPA07 SDRPA08

NEW ROUTINE

SDRPA09

OPTIONS

SD-PAIT MANUAL TRANSMISSION SD-PAIT TASKED TRANSMISSION SD-PAIT REPORTS SD-PAIT PENDING SD-PAIT REJECTED SD-PAIT TRANSMISSION SUMMARY SD-PAIT ACK SUMMARY

PROTOCOLS

SD-PAIT-EVENT SD-PAIT-SUBS

HL7 APPLICATION PARAMETERS

SD-AAC-PAIT SD-SITE-PAIT

HL LOGICAL LINK

SD-PAIT

BACKGROUND JOB

SD-PAIT TASKED TRANSMISSION

SECURITY KEYS NONE

BULLETINS

NO BULLETINS are generated with this patch. Please reference MAILMAN NOTIFICATION MESSAGES listed above

Site	Patients	Batch	Entries Added to	Run Time
	(File 2)	Messages	file 409.6	
REDACTED	410,263	77	380,795	3.5 days
REDACTED	72,589	21	102,425	1 day
REDACTED	71,295	18	88,933	1 day
REDACTED	213,732	27	133,397	1.5 days

Initial Seeding Run Times:

GLOBAL GROWTH

Each entry added to file 409.6 takes approximately 250 bytes. A medium to large site will require at least 120MB of available space on the volume set containing the ^SDWL(409.6 global to accommodate the initial seeding process.

HL7 messages generated by the seeding process take approximately 4 Mb per batch message. A medium to large site will generate 60 to 100 batches on the initial seeding run which corresponds to at least 240Mb of available space on the volume set containing the HL7 globals.

[^]XMTP globals are created and used to record acknowledgment processing and have been defined to remain in the system for three days.

^XTMP("SDRPA-"_BATCHNUMBER, [Diagnostics]

HL7 Interface Specification for Patient Appointment Information Transmission

Introduction

This interface specification details the information needed for the Patient Appointment Information Transmission data reporting. This data transmission will be triggered by a TaskMan queued job 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.

General

The formats of these messages conform to the Version 2.4 HL7 Interface Standards where applicable. HL7 custom message formats ("Z" segments) are used only when necessary.

1.2 Message Content

Data item	Length	Туре	Definition	HL7
Integration Control Number	10	Alpha- numeric ICN is a VHA wide internal key, uniquely assigned to each PATIENT. The ICN is a 10 digit.		PID.3
Patient's DFN	8	Numeric	Numeric The internal number of the I patient from within the Patient file.	
Patient's SSN	10	9 Numeric, 1 Alpha	The social security number or the generated pseudo SSN of the patient.	PID.19
Last Name First Name Middle Name	45	Text	The name of the patient. Held as three distinct names with a combined maximum length of 45 characters	PID.5
Date Of Birth	8	Date	The date of birth of the patient.	PID.7
Current SC status	1	Text	Current service connected status, Y/N	ZSP.2

The table below describes the data fields and HL7 mappings:

0	0	N	Comment committee of the	ZCD 9
Current SC percentage	3	Numeric	Current service connected percentage	ZSP.3
Date	Q	Date	The date the appointment	SCH.11
Appointment	0	Date	was created	5011.11
Created			was created	
Desired	8	Date	The date the appointment	SCH.11
Appointment	0	Date	was requested to take	5011.11
Date			place.	
Appointment	19	Date/time	The date the appointment	SCH.11
Date	14	Date/time	was scheduled to be kept.	5011.11
Appointment	3	Text	See table 0278	SCH.25
status	J	Text	See table 0278	5011.25
Next Available	1	Numeric	See table 0276	SCH.7
	T	Numeric	See table 0270	5011.7
Request Flags Cancellation	10	Date/time	If the encountment was	SCH.11
Date	12	Date/time	If the appointment was cancelled by the clinic or	5011.11
Date			the patient, the date of	
			cancellation.	
Reschedule	19	Date/time	The date an appointment	SCH.11
Date	12	Date/time	was rescheduled for	5011.11
Dute			without auto-rebooking	
			without duto resoluting	
Auto-rebook	1	Numeric	See table 0276	SCH.7
Flag	_			
8				
Auto-rebook	12	Date/time	Date of the auto-rebooked	SCH.11
Date			appointment	
New to	1	Text	NTF if the patient did not	PV2.24
Facility/Clinic			have a prior appointment	
Flag			at this facility in the past	
			24 months. SHB	
			otherwise.	
Enrollment	1	Alpha	See table VA0021	ZEN
Priority		numeric		
Service	1	Numeric	See table SD008	ZCL.2
Connection				
Condition Flag				
Agent Orange	1	Numeric	See table SD008	ZCL.2
Exposure				
Tanini an		N	Gaa table CD000	ZCL 9
Ionizing	1	Numeric	See table SD008	ZCL.2
Radiation				
Exposure				

Environmenta 1 Contaminants		Numeric	See table SD008	ZCL.2
Military Sexual Trauma	1	Numeric	See table SD008	ZCL.2
Head and/or Neck Cancer	1	Numeric	See table SD008	ZCL.2
Clinic IEN Number	6	Numeric	Internal Identifier of the Hospital Location the appointment was scheduled for.	AIL.3.1
Clinic Name	30	Text	Name of Clinic from file 44	AIL.3.9
DSS Identifier of Clinic	3	Numeric	Stop code of the Hospital Location file the appointment was scheduled for.	AIL.4
DSS Credit 3 Stop of Clinic		Numeric	Credit stop code of the Hospital Location file	AIL.5
Facility Number			Station Number, field #99 from the Institution file	PV1.39
Provider		Text	IEN and name of provider associated with the Hospital Location	AIP.3
Check out 12 Date		Date/time	Date of appointment checkout. It is considered to be a kept appointment.	
Appointment 3 Type		Alpha	See Table 0277	SCH.8
Scheduling 3 Event Reason		Alpha	See Table VA087	SCH.6

Admission Type	4	Numeric	See table SD009	PV1.4
Consult Request Date	12	Date	The request date and time of the related consult if applicable – the DATE OF REQUEST field (#3) of the REQUEST/ CONSULTATION file (#123).	SCH.11

Note: If the appointment is SC (Service Connected) related then only MST and Head and/or Neck cancer may be identified as well. All other classifications can be claimed only if the appointment is not SC.

SIU	SIU Message	Section
BSH	Batch Header	2.3.2
{MSH	Message Header	2.3.1
SCH	Schedule Activity Information	2.3.9
PID	Patient Identification	2.3.4
PV1	Patient Visit	2.3.5
PV2	Patient Visit	2.3.6
[{AIP}]	Appointment information - personnel resource segment	2.3.7
{AIL}	Appointment Information	2.3.8
[{ZCL}]	VA-Specific Outpatient Classification	2.3.10
[{ZEN}]	VA Specific Enrollment	2.3.11
$\{ZSP\}\}$	VA-Specific Service Period	2.3.12
BTS	Batch Trailer	2.3.3

1.2.0 Data Capture and Transmission

A Taskman background job will be scheduled to run at specified intervals. The background job will collect and format data for HL7 batch transmission.

A determined number of appointments is generated into a temporary file. That file is sent to create HL7 transmission in a batch format. As soon as the batch is put into a queue, the temporary file is deleted and the process of generating data for transmission continues until all required data is generated and transmitted. That design allows for an immediate transmission after generation of a partial data, and prevents the temporary file from growing tremendously before it is sent for transmission. The process is repeated until all required data is generated and transmitted. The follow up transmissions will be created as batch messages with all appointments made starting from the next date to the last scanned appointment creation date of the last transmission, and with previously sent appointments, if their statuses turn out to have one of the final values, see SCH.25. Filler Status in SIU Event Mapping Table. The previously sent appointments are evaluated for a possible final transmission from the Patient Transmission Info Log file (#409.6). Appointments entries in that file that were sent with the final status will be deleted after an acknowledgement of the successful transmission is received.

1.2.1 Batch Messages

Batch messages will be used to transmit patient appointment information. Each batch message may contain up to 5000 messages. One message will represent one patient appointment.

1.2.2 Batch Acknowledgements

Each batch message sent will be acknowledged at the application level.

1.2.3 Lower Level Protocol

TCP/IP will be used.

2 HL7 Control Segments

This section defines the HL7 control segments supported by **VistA** and implemented in this transmission. The messages are presented separately and defined by category. Segments are also described.

2.1 Message Definitions

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.

2.2 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.

2.3 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.

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: SD-SITE-PAIT When originating from ACC: SD-AAC-PAIT
4	20	ST				Sending Facility	When originating from facility: Station's facility number
5	30	ST				Receiving Application	SD-AAC-PAIT
6	30	ST				Receiving Facility	200
7	26	TS				Date/Time Of Message	Not used
8	40	ST				Security	Not used
9	7	СМ	R		0076 0003	Message Type	<u>2 Components</u> 1. Message type 2. Trigger event
10	20	ST	R			Message Control ID	Batch and sequence number automatically generated by VISTA HL7 Package
11	1	ID	R			Processing ID	P (production)
12	8	ID	R			Version ID	2.4 (Version 2.4)
13	15	NM				Sequence Number	Not used
14	180	ST				Continuation Pointer	Not used
15	2	ID				Accept Acknowledgment Type	AL (always acknowledge)
16	2	ID				Application Acknowledgment Type	AL (always acknowledge)
17	3	ID				Country Code	USA

2.3.1 MSH - Message Header Segment

	1			ier Se	0		
SEQ	LEN	DT	R/O	RP/#	TBL#		VISTA DESCRIPTION
1	1	ST	R			Batch Field Separator	Recommended value is ^
2	4	ST	R			Batch Encoding Characters	Delimiter values: Component = ~ (tilde) Repeat = (bar) Escape = \ (back slash) Subcomponent = &
3	15	ST				Batch Sending Application	When originating from facility: SD-SITE-PAIT When originating from AAC: SD-ACC-PAIT
4	20	ST				Batch Sending Facility	When originating from facility: Station's facility number when originating from AAC: 200
5	15	ST				Batch Receiving Application	When originating from facility: SD-ACC-PAIT When originating from AAC: SD-SITE-PAIT
6	20	ST				Batch Receiving Facility	When originating from facility: Station's facility number When originating from AAC: 200
7	26	TS				Batch Creation Date/Time	Date and time batch message was created
8	40	ST				Batch Security	Not used
9	20	ST				Batch Name/ID/Type	Components 1. Not used 2. P 3. SIU,S12 4. 2.4 5. AL 6. AL
10	80	ST			0008	Batch Comment	<u>Components</u> 1. Acknowledgement Code 2. Text Message
11	20	ST				Batch Control ID	When originating from facility: Automatically generated by VISTA HL7 Package When Originating from AAC: Acknowledgement msg #
12	20	ST				Reference Batch Control ID	When originating from facility: Null When originating from AAC: Batch Control ID of batch message being acknowledged

2.3.2 BHS – Batch Header Segment

				8			
SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	10	\mathbf{ST}				Batch Message Count	Number of messages within batch
2	80	ST				Batch Comment	Not used
3	100	CM		Y		Batch Totals	Not used

2.3.3 BTS - Batch Trailer Segment

2.3.4 PID - Patient Identification Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI				Set ID - Patient ID	Sequential Number
2	17	CK				Patient ID (External ID)	Primary Long ID
3	21	СМ	R			Patient ID (Internal ID)	Component 1. ICN 2. NULL 3. NULL 4. USVHA&&L 5. NI Repetition 1. DFN 2. Null 3. Null 4. USVHA&&L 5. PI
4	12	ST				Alternate Patient ID	Not used
5	48	PN	R			Patient Name	Component 1. Family name 2. Given name 3. Middle initial 4. Suffix
6	30	ST				Mother's Maiden Name	Not used
7	26	TS				Date of Birth	Date of birth
8	1	ID				Sex	Not used
9	48	PN				Patient Alias	Not used
10	1	ID				Race	Not used
11	106	AD				Patient Address	Zip Code

2.0.T]		autun	t iucintification oc	ginent (continueu)	
12	4	ID	(County Code	Not used
13	40	TN	I	Phone Number - Home	Not used
14	40	TN	I	Phone Number - Business	Not used
15	25	ST	I	Language - Patient	Not used
16	1	ID	Ν	Marital Status	Not used
17	3	ID	F	Religion	Not used
18	20	CK	I	Patient Account Number	Not used
19	16	ST	S	SSN Number - Patient	Social security number and pseudo indicator
20	25	CM		Driver's Lic Num - Patient	Not used
21	20	CK	Ν	Mother's Identifier	Not used
22	1	ID	H	Ethnic Group	Not used
23	25	ST	H	Birth Place	Not used
24	2	ID	Ν	Multiple Birth Indicator	Not used
25	2	NM	I	Birth Order	Not used
26	3	ID	(Citizenship	Not used
27	60	CE	Ζ	Veterans Military Status	Not used

2.3.4 PID - Patient Identification Segment (continued)

2.3.5 PV1 - Patient Visit Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI				Set ID - Patient Visit	Sequential Number
2	1	ID			0004	Patient Class	Patient Class
3	12	$\mathbf{C}\mathbf{M}$				Assigned Patient	Not used
						Location	
4	4	ID			0007	Admission Type	Refer to table SD009
							(Purpose of
							Visit/Appointment Type)
5	20	ST				Preadmit Number	Not used
6	12	$\mathbf{C}\mathbf{M}$				Prior Patient Location	Not used
7	60	CN				Attending Doctor	Not used
8	60	CN				Referring Doctor	Not used
9	60	CN				Consulting Doctor	Not used
10	3	ID				Hospital Service	Not used
11	12	$\mathbf{C}\mathbf{M}$				Temporary Location	Not used
12	2	ID				Preadmit Test Indicator	Not used
13	2	ID				Readmission Indicator	Not used
14	3	ID				Admit Source	Not used
15	2	ID				Ambulatory Status	Not used
16	2	ID				VIP Indicator	Not used
17	60	CN				Admitting Doctor	Not used
18	2	ID				Patient Type	Not used
19	15	NM				Visit Number	Not used
20	50	$\mathbf{C}\mathbf{M}$				Financial Class	Not used
21	2	ID				Charge Price Indicator	Not used
22	2	ID				Courtesy Code	Not used
23	2	ID				Credit Rating	Not used
24	2	ID				Contract Code	Not used

PVI - Patient visit Segment									
SEQ	LEN	DT	R/O	RP/#	TBL#	ELEMENT NAME	VISTA DESCRIPTION		
25	8	DT				Contract Effective Date	Not used		
26	12	NM				Contract Amount	Not used		
27	3	NM				Contract Period	Not used		
28	2	ID				Interest Code	Not used		
29	1	ID				Transfer to Bad Debt	Not used		
						Code			
30	8	DT				Transfer to Bad Debt	Not used		
						Date			
31	10	ID				Bad Debt Agency Code	Not used		
32	12	NM				Bad Debt Transfer	Not used		
						Amount			
33	12	NM				Bad Debt Recovery	Not used		
						Amount			
34	1	ID				Delete Account Indicator	Not used		
35	8	DT				Delete Account Date	Not used		
36	3	ID				Discharge Disposition	Not used		
37	25	CM				Discharged to Location	Not used		
38	2	ID				Diet Type	Not used		
39	7	ID				Servicing Facility	Facility number or		
							Facility number+ suffix		
40	1	ID				Bed Status	Not used		
41	2	ID				Account Status	Not used		
42	12	$\mathbf{C}\mathbf{M}$				Pending Location	Not used		
43	12	$\mathbf{C}\mathbf{M}$				Prior Temporary Location			
44	26	TS				Admit Date/Time	Not used		
45	26	TS				Discharge Date/Time	Not used		
46	12	NM					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	$\mathbf{C}\mathbf{M}$				Alternate Visit ID	Not used		

PV1 - Patient Visit Segment (continued)

2.3.6 PV2 Patient Visit

SEQ	LE N	DT	R/	RP/ #	TB L#	ITE M#	ELEMENT NAME	VISTA DESCRIPTI ON
1	80	PL	С			0011	Prior Pending Location	Not used
2	60	CE	0			0012	Accommodation Code	Not used
3	60	CE	0			0013	Admit Reason	Not used
4	60	CE	0			0014	Transfer Reason	Not used
5	25	ST	0			0015	Patient Valuables	Not used
6	25	ST	0			0016	Patient Valuables Location	Not used
7	2	IS	0			0017	Visit User Code	Not used
8	26	TS	0			0018	Expected Admit Date/Time	Not used
9	26	TS	0			0019	Expected Discharge Date/Time	Not used
10	3	NM	0			0071	Estimated Length of Inpatient Stay	Not used
11	3	NM	0			0072	Actual Length of Inpatient Stay	Not used
12	50	ST	0			0073	Visit Description	Not used
13	90	XCN	0			0074	Referral Source Code	Not used
14	8	DT	0			0075	Previous Service Date	Not used
15	1	ID	0			0076	Employment Illness Related Indicator	Not used
16	1	IS	0			0077	Purge Status Code	Not used
17	8	DT	0			0078	Purge Status Date	Not used
18	2	IS	0			0079	Special Program Code	Not used
19	1	ID	0			0070	Retention Indicator	Not used
20	1	NM	0			0071	Expected Number of Insurance Plans	Not used
21	1	IS	0			0072	Visit Publicity Code	Not used
22	1	ID	0			0073	Visit Protection Indicator	Not used
23	90	XO N	0			0074	Clinic Organization Name	Not used
24	2	IS	0		021 6	0075	Patient Status Code	New to Facility/ Clinic
25	1	IS	0			0076	Visit Priority Code	Not used
26	8	DT	0			0077	Previous Treatment Date	Not used
27	2	IS	0			0078	Expected Discharge Disposition	Not used
28	8	DT	0			0079	Signature on File Date	Not used
29	8	DT	0			0070	First Similar Illness Date	Not used
30	3	IS	0			0071	Patient Charge Adjustment Code	Not used
31	2	IS	0			0072	Recurring Service Code	Not used
32	1	ID	0			0073	Billing Media Code	Not used
33	26	TS	0			0074	Expected Surgery Date & Time	Not used
34	2	ID	0			0075	Military Partnership Code	Not used

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SEQ	LE N	DT	R/	RP/ #	TB L#	ITE M#	ELEMENT NAME	VISTA DESCRIPTI ON
35	2	ID	0			0076	Military Non-Availability Code	Not used
36	1	ID	0			0077	Newborn Baby Indicator	Not used
37	1	ID	0			0078	Baby Detained Indicator	Not used

2.3.7 AIP - Appointment Information - Personnel Resource Segment

SEQ	LEN	DT	R/O/C	RP/#	TBL#	ITEM#	ELEMENT NAME	VISTA DESCRIPTION
1	4	SI	R			00906	Set ID - AIP	Sequential Number
2	3	ID	С			00763	Segment Action code	Not used
3	80	XCN	С	Υ		00913	Personnel Resource ID	Component 1. Provider IEN 2. Family name 3. Given name 4. Middle name or initial 5. Suffix
4	200	CE	R			00907	Resource Role	Provider
5	200	\mathbf{CE}	0			00899	Resource Group	Not used
6	26	TS	С			01202	Start Date/Time	Not used
7	20	NM	С			00891	Start Date/Time Offset	Not used
8	200	CE	С			00892	Start Date/Time Offset Units	Not used

	2.3.8 AIL Appointment Information												
SEQ	LEN	DT	R/O/ C	RP/ #	TBL#	ITE M#	ELEMENT NAME	VISTA DESCRIPTION					
1	4	SI	R			$\begin{array}{c} 0090\\ 2 \end{array}$	Set ID - AIL	Sequential Number					
2	1	ID	С			$\begin{array}{c} 0076\\ 3 \end{array}$	Segment Action Code	Not used					
3	90	PL	С			0090	Location Resource ID	Clinic Name Components 1. Clinic IEN (20) 2. Null 3. Null 4. Null 5. Null 6. Null 7. Null 8. Null 9. Clinic name (60)					
4	100	CE	R		VA088	0090 4	Location Type	DSS ID Components 1. DSS Clinic ID code (3) 2. Description (40) 3. 'DSS Clinic ID" (13)					
5	100	CE	0		VA088	0090 5	Location Group	DSS credit stop 1. DSS credit stop code (3) 2. Description (40) 3. "DSS Credit Stop" (15)					
6	26	TS	С			$\begin{array}{c} 0120\\2\end{array}$	Start Date/Time	Not used					
7	20	NM	С			0089 1	Start Date/Time Offset	Not used					
8	200	CE	С			$\begin{array}{c} 0089\\ 2 \end{array}$	Start Date/Time Offset Units	Not used					
9	20	NM	0			$\begin{array}{c} 0089\\ 3 \end{array}$	Duration	Not used					
10	200	CE	0			0089 4	Duration Units	Not used					
11	10	IS	С			$\begin{array}{c} 0089\\ 5\end{array}$	Allow Substitution Code	Not used					
12	200	CE	С			0088 9	Filler Status Code	Not used					

2.3.8 AIL Appointment Information

SEQ	LE	DT	R/O/C	RP	TBL#	ITEM	ELEMENT NAME	VISTA DESCRIPTION
	Ν			/#		#		
1	75	EI	R			00860	Placer Appointment ID	Sequential Number
2	75	EI	С			00861	Filler Appointment ID	Not used
3	5	NM	С			00862	Occurrence Number	Not used
4	75	EI	0			00863	Placer Group Number	Not used
5	200	CE	0			00864	Schedule ID	Not used
6	3	CE	0		VA087	00883	Event Reason	Component Scheduling Event Reason codes.
7	1	CE	0		0276	00866	Appointment Reason	Appointment Reason
8	3	CE	0		0277	00867	Appointment Type	Appointment Type Codes
9	20	NM	0			00868	Appointment Duration	Not used
10	200	CE	0			01304	Appointment Duration Units	Not used
11	200	ΤQ	0	Y		00884	Appointment Timing Quantity	In the following order: Date Appt Created Desired Date Appt Date (time) Checkout Date (time) Cancellation Date (time) Auto-rebook Date(time) Resched Date(time)
12	48	XC N	0			00874	Placer Contact Person	Not used
13	40	XTN	0			00875	Placer Contact Phone Number	Not used
14	106	XAD	0			00876	Placer Contact Address	Not used
15	80	PL	0			00877	Placer Contact Location	Not used
16	38	XC N	R			00885	Filler Contact Person	Not used
17	40	XTN	0			00886	Filler Contact Phone Number	Not used
18	106	XAD	0			00887	Filler Contact Address	Not used
19	80	PL	0			00888	Filler Contact Location	Not used
20	48	XC N	R			00878	Entered by Person	Not used
21	40	XTN	0			00879	Entered by Phone Number	Not used
22	80	PL	0			00880	Entered by Location	Not used
23	75	EI	0			00881	Parent Placer Appointment ID	Not used
24	75	EI	0			00882	Parent Filler Appointment ID	Not used
25	200	CE	R		0278	00889	Filler Status Code	Appointment Status

2.3.9 SCH Schedule Activity Information

SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME									
1	4	SI	R			SET ID									
2	2	ID	R		SD008	OUTPATIENT CLASSIFICATION TYPE									
3	50	ST				VALUE									

2.3.10 ZCL - VA-Specific Outpatient Classification Segment

2.3.11 ZEN - VA-Specific Enrollment Segment

SEQ	LEN	DT	R/O	RP/#	TBL#	VISTA ELEMENT NAME
1	4	SI	R			SET ID
2	8	DT				NOT USED
3	1	ID				NOT USED
4	1	ID				NOT USED
5	1	ID				NOT USED
6	60	TX				NOT USED
7	7	ID				NOT USED
8	7	ID				NOT USED
9	1	ID			VA002	ENROLLMENT PRIORITY
					1	
10	8	DT				NOT USED

2.3.12 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				NOT USED
5	1	ID				NOT USED

3.0 SUPPORTED AND USER-DEFINED HL7 TABLES

VALUE	DESCRIPTION						
S12	SIU/ACK - Notification of new appointment booking						
S14	SIU/ACK - Notification of appointment modification						
S15	SIU/ACK - Notification of appointment cancellation						
S26	SIU/ACK Notification that patient did not show up						
	for schedule appointment						

Table 0003 - Event type

Table 0004 – Patient Class

VALUE	DESCRIPTION
Ι	INPATIENT
0	OUTPATIENT
U	UNKNOWN

Table 0008 - Acknowledgment Code

VALUE	DESCRIPTION
AA	APPLICATION ACKNOWLEDGMENT: ACCEPT
AE	APPLICATION ACKNOWLEDGMENT: ERROR
AR	APPLICATION ACKNOWLEDGMENT: REJECT
MR	APPLICATION ACKNOWLEDGMENT: MANUAL REJECT
CA	ACCEPT ACKNOWLEDGMENT: COMMIT ACCEPT
CE	ACCEPT ACKNOWLEDGMENT: COMMIT ERROR
CR	ACCEPT ACKNOWLEDGMENT: COMMIT REJECT

The patch is prepared for 'AR' – THE WHOLE BATCH REJECTION but It has not been expected to receive that code from the AAC at this time. 'MR' may be used instead.

Table 0076 - Message Type

VALUE	DESCRIPTION
SIU	SIU MESSAGE
ACK	GENERAL ACKNOWLEDGMENT

VALUE	DESCRIPTION	
NTF	Patient did not have a prior appointment at this Facility in the past 24 months; New to parent and substation.	
SHB	Patient did have a prior appointment at this parent and substation in the past 24 months; Registered here before.	
OPN	Patient did not have a prior appointment at this substation but was registered with parent station.	

Table 0216 - Patient Status Codes

The patient status code indicates if a patient is new to the facility or not. Both the parent station and the substations are evaluated as the facility. The parent station is evaluated with the primary DSS ID only; the substation is evaluated with both DSS ID stop code and the DSS credit stop code. The patient is considered new to the facility if he/she did not have another scheduled appointment in the same facility during the previous 24 months. The facility's station number is determined from the Division (field #3.5) of the clinic's Hospital Location file #44 entry. The division is retrieved from the Medical Center Division file #40.8 from which the Institution File Pointer field (#.07) is used to look up the Institution file #4 entry where the Station Number field (#99) is stored.

Table 0270 - Appointment Reason Codes		
VALUE	DESCRIPTION	
1	Next Ava. Appt. Indicated by User	
2	Next Ava. Appt. Indicated by Calculation	
3	Next Ava. Appt. Indicated by User & Calculation	
4	Not Next Available with AutoRebook	
5	Not Next Available No AutoRebook	
6	Null (All others)	

Table 0276 - Appointment Reason Codes

Table	0277 - Appointment	Type	Codes
-------	--------------------	------	-------

VALUE	DESCRIPTION
AR	Action required
NAT	No action taken
F	Future
NC	Non count
NCF	Non count future
ABK	Auto re-book
0	Outpatient
Ι	Inpatient
RS	Re-schedule

Table 0278 Filler Status Codes

VALUE	DESCRIPTION
Р	Pending
F	Final

Table VA01 - Yes/No

VALUE	DESCRIPTION
0	NO
1	YES
Ν	NO
Y	YES
U	UNKNOWN

Table SD008 - Outpatient Classification Type

VALUE	DESCRIPTION
1	AGENT ORANGE
2	IONIZING RADIATION
3	SERVICE CONNECTED
4	ENVIRONMENTAL CONTAMINANTS
5	MILITARY SEXUAL TRAUMA
6	HEAD AND/OR NECK CANCER

Table SD009 - 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
0205	10-10	PRIMA FACIA
0206	10-10	RESEARCH
0207	10-10	COLLATERAL OF VET.
0208	10-10	SHARING AGREEMENT
0209	10-10	REGULAR
0211	10-10	SERVICE CONNECTED

0301	SCHEDULED VISIT	COMPENSATION & PENSION
0302	SCHEDULED VISIT	CLASS II DENTAL
0303	SCHEDULED VISIT	ORGAN DONORS
0304	SCHEDULED VISIT	EMPLOYEE
0305	SCHEDULED VISIT	PRIMA FACIA
0306	SCHEDULED VISIT	RESEARCH
0307	SCHEDULED VISIT	COLLATERAL OF VET.
0308	SCHEDULED VISIT	SHARING AGREEMENT
0309	SCHEDULED VISIT	REGULAR
0311	SCHEDULED VISIT	SERVICE CONNECTED
0401	UNSCHED. VISIT	COMPENSATION & PENSION
0402	UNSCHED. VISIT	CLASS II DENTAL
0403	UNSCHED. VISIT	ORGAN DONORS
0404	UNSCHED. VISIT	EMPLOYEE
0405	UNSCHED. VISIT	PRIMA FACIA
0406	UNSCHED. VISIT	RESEARCH
0407	UNSCHED. VISIT	COLLATERAL OF VET.
0408	UNSCHED. VISIT	SHARING AGREEMENT
0409	UNSCHED. VISIT	REGULAR
0411	UNSCHED. VISIT	SERVICE CONNECTED

Value denotes a combination of Purpose of Visit & Appointment Type, which is known as "Admission Type" for the purposes of data transmission. This table is used in processing the ACRP HL7 transmission.

Note:

It has been determined that PV1 segment can contain the 'empty' value for sequence P1.4 and it has to be treated as **acceptable**. That might happen when a new appointment is scheduled in place of a previously canceled appointment, and if the original appointment has been already transmitted by PAIT.

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

VALUE	DESCRIPTION	
CI	Check-in	
CO	Check-out	
NS	No Show	
CC	Cancel by clinic	
СР	Cancel by patient	
COE	Check-out by encounter	
NM	No Match	
СТ	Cancelled Terminated	

Table VA087 - Scheduling Event Reason

Table AAC001 - Error Code Set

VALUE	DESCRIPTION
100	PATIENT DFN IS NOT NUMERIC OR IS MISSING
150	CLINIC IEN IS NOT NUMERIC OR IS MISSING
200	BHS STATION NUMBER AND STA3N ARE NOT EQUAL
250	INVALID OR MISSING BHS STATION NUMBER
300	INVALID OR MISSING STA3N
350	HL7 DATE IS NOT IN PROPER FORMAT OR IS MISSING.
400	DOB IS MISSING OR INVALID
450	CREATE DATE OR APPT DATE IS MISSING
500	CREATION DATE IS BEFORE SEPTEMBER 1, 2002
600	RESCHEDULED DATE AND APPT TYPE ARE NOT IN
	AGREEMENT - Rescheduled date requires SCH.8 Appt type
	= 'RS' and vice versa
650	CHECK OUT DATE AND EVENT REASON ARE NOT IN
	AGREEMENT - Check out date requires either SCH.6 Event
	reason = 'CO' or 'COE'
700	CANCELLATION DATE AND EVENT REASON ARE NOT
	IN AGREEMENT - Cancellation date requires SCH.6 Event reason = 'CC' or 'CP' or 'NS'
750	EVENT REASON AND FILLER STATUS ARE NOT IN
750	AGREEMENT - All SCH.6 Event reason codes, except 'CI'
	require SCH.25 Filler status to be 'F' Final and accordingly
	only 'CI' and NULL should have SCH.25 Filler status to be
	'P' Pending
800	FILLER STATUS IS MISSING OR IS INVALID
850	ADMIT TYPE IS INVALID (table SD009)
R	WHOLE BATCH REJECTED

 $R-\ensuremath{\mathsf{whole}}\xspace$ batch reject may be currently generated only by manual batch rejection.

Table VA088 – DSS ID and DSS Credit Stop

Please note that this table is updated yearly and the current set up should be evaluated.

VALUE	DESCRIPTION	Allow Either	Primar y	Secondar y	Inactive Date
101	EMERGENCY UNIT		3	s S	Dute
101	ADMITTING/SCREENING	Е	-	0	
102	TELEPHONE TRIAGE	Ľ	Р		
105	PULMONARY FUNCTION	Е			
104	X-RAY	E	-		
106	EEG	E			
107	EKG	11	Р		
108	LABORATORY	Е			
109	NUCLEAR MEDICINE	E			
110	CARDIOVASCULAR NUCLEAR MED	E			OCT 1,1998
111	ONCOLOGICAL NUCLEAR MED	Е			OCT 1,1998
112	INFECTIOUS DISEASE NUCLEAR MED	Е			OCT 1,1998
113	RADIONUCLIDE TREATMENT	Е			OCT 1,1998
114	SING PHOTON EMISS TOMOGRAPHY	Е			OCT 1,1998
115	ULTRASOUND	Е			
116	RESPIRATORY THERAPY	Е			
117	NURSING (2ND ONLY)			S	
118	HOME TREATMENT SERVICES		Р		
119	COMM NURSING HOME FOLLOW-UP	Е			
120	HEALTH SCREENING	Е			
121	RESIDENTIAL CARE (NON-MH)	Е			
122	PUBLIC HEALTH NURSING	Е			
123	NUTRITION/DIETETICS- INDIVIDUAL	Е			
124	NUTRITION/DIETETICS-GROUP	Е			
125	SOCIAL WORK SERVICE	Е			
126	EVOKED POTENTIAL	Е			
127	TOPOGRAPHICAL BRAIN MAPPING	Е			
128	PROLONGED VIDEO-EEG MONITORING	Е			
129	HYPERTENSION SCREENING	Е			OCT 1,1991
130	CHOLESTEROL SCREENING	Е			OCT 1,1991
131	BREAST CANCER SCREENING	Е			OCT 1,1991
132	MAMMOGRAM	Е			OCT 1,1991
133	CERVICAL CANCER SCREENING	Е			OCT 1,1991
134	PAP TEST	Е			OCT 1,1991

135	COLORECTAL CANCER SCREENING	Е			OCT 1,1991
136	FOBT - GUIAC SCREENING	Е			OCT 1,1991
137	ALCOHOL COUNSELING - MED CARE	Е			OCT 1,1991
138	SMOKING CESSATION	Е			OCT 1,1991
139	WEIGHT CONTROL	Е			OCT 1,1991
140	PHYS FITNESS/EXERCISE COUNSEL	Е			OCT 1,1991
141	VET IMMUNIZATION	Е			OCT 1,1991
142	COLORECTAL CA SCREEN DIG EXAM	Е			OCT 1,1991
143	PERSIAN GULF READJUST COUNSEL	Е			JAN 1,1988
144	RADIONUCLIDE THERAPY	Е			
145	PHARM/PHYSIO NMP STUDIES	Е			
146	PET	Е			
147	TELEPHONE/ANCILLARY		Р		
148	TELEPHONE/DIAGNOSTIC		Р		
149	RADIATION THERAPY TREATMENT	Е			
150	COMPUTERIZED TOMOGRAPHY (CT)	Е			
151	MAGNETIC RESONANCE IMAGING/MRI	Е			
152	ANGIOGRAM CATHETERIZATION	Е			
153	INTERVENTIONAL RADIOGRAPHY	Е			
154	MEG (MAGNETOENCEPHALOGRAPH Y)	Е			
155	INFO ASSISTS TECHNOLOGY	Е			
160	CLINICAL PHARMACY			\mathbf{S}	
161	TRANSITIONAL PHARMACY		Р		
163	CHAPLAIN-CLINICAL SVCS- INDIV	Е			OCT 1,2002
164	CHAPLAIN-CLINICAL SVCS- GROUP	Е			OCT 1,2002
165	BEREAVEMENT COUNSELING	Е			
166	CHAPLAIN SERVICE - INDIVIDUAL	Е			
167	CHAPLAIN SERVICE - GROUP	Е			
168	CHAPLAIN SERVICE - COLLATERAL	Е			
169	TELEPHONE/CHAPLAIN		Р		
170	HBPC - PHYSICIAN		Р		
171	HBPC - RN/RNP/PA		Р		
172	HBPC - NURSE EXTENDER		Р		

173	HBPC - SOCIAL WORKER		Р		
$173 \\ 174$	HBPC - THERAPIST		P		
$174 \\ 175$	HBPC - DIETITIAN		P		
176	HBPC - CLINICAL PHARMACIST		P		
$170 \\ 177$	HBPC - OTHER		P		
$177 \\ 178$	HBPC/TELEPHONE		P		
$178 \\ 179$	HOME TELEVIDEO CARE		Г	S	
		F		G	-
180	DENTAL TELEDUONE/DENTAL	Ε	D		
181	TELEPHONE/DENTAL		Р		
185	PHYS EXTND NP (NRS PRCNR) 2ND			S	
186	PHYS EXTND PA (PHYS ASST) 2ND			S	
187	PHYS EXTND CNS (CLN RN SPC)2ND			S	
190	ADULT DAY HEALTH CARE	Е			
201	PHYSICAL MED & REHAB SVC	E E			1
201	RECREATION THERAPY				
202	SERVICE	Ε			
203	AUDIOLOGY	Е			
204	SPEECH PATHOLOGY	Е			
205	PHYSICAL THERAPY	Е			
206	OCCUPATIONAL THERAPY	E			
207	PM&RS INCENTIVE THERAPY	Е			
208	PM&RS COMPENSATED WORK THERAPY	Е			
209	VIST COORDINATOR	Е			
210	SPINAL CORD INJURY	E			
211	AMPUTATION FOLLOW-UP CLINIC	E			
212	EMG - ELECTROMYOGRAM	Е	-		
$\frac{212}{213}$	PM&RS VOCATIONAL				
210	ASSISTANCE	\mathbf{E}			
214	KINESIOTHERAPY	Е			
215	SCI HOME CARE PROGRAM	E			
216	TELEPHONE/REHAB AND SUPPORT		Р		
217	BROS (BLIND REHAB O/P SPEC)	Е			1
218	CAT BLIND REHAB	E			
219	TBI (TRAUMATIC BRAIN INJURY)	E			
220	VISOR (VISUAL IMPAIRMENT OUTPA	Е			1
290	OBSERVATION MEDICINE		Р		
$\frac{250}{291}$	OBSERVATION SURGERY		P		1
$\frac{291}{292}$	OBSERVATION SONGERT		P		1
292 293	OBSERVATION ISTCHIATRI OBSERVATION NEUROLOGY		P		1
$\frac{293}{294}$	OBSERVATION RECROLOGY OBSERVATION BLIND REHAB		P		

295	OBSERVATION SPINAL CORD		Р	
296	OBSERVATION		Р	
	REHABILITATION		Р	
301	GENERAL INTERNAL MEDICINE	Е		
302	ALLERGY IMMUNOLOGY	Е		
303	CARDIOLOGY	E		
304	DERMATOLOGY	Е		
305	ENDO./METAB (EXCEPT DIABETES)	Е		
306	DIABETES	Е		
307	GASTROENTEROLOGY	Е		
308	HEMATOLOGY	Е		
309	HYPERTENSION	Е		
310	INFECTIOUS DISEASE	Е		
311	PACEMAKER	Е		
312	PULMONARY/CHEST	Е		
313	RENAL/NEPHROL(EXCEPT DIALYSIS)	Е		
314	RHEUMATOLOGY/ARTHRITIS	Е		
315	NEUROLOGY	Е		
316	ONCOLOGY/TUMOR	Е		
317	COUMADIN CLINIC	Е		
318	GERIATRIC CLINIC	Е		
319	GERIATRIC EVAL. & MGMT. (GEM)	Е		
320	ALZHEIMER'S/DEMENTIA CLINIC	Е		
321	GI ENDOSCOPY	Е		
322	WOMEN'S CLINIC	Е		
323	PRIMARY CARE/MEDICINE	Е		
324	TELEPHONE/MEDICINE		Р	
325	TELEPHONE/NEUROLOGY		Р	
326	TELEPHONE/GERIATRICS		Р	
327	MED MD PERFORM INVASVE OR PROC		Р	
328	MEDICAL/SURGICAL DAY UNIT MSDU	Е		
329	MEDICAL PROCEDURE UNIT	Е		
330	CHEMOTHERAPY PROC. UNIT- MED.	Е		
331	PRE-BED CARE MD (MEDICINE)	Е		
332	PRE-BED CARE RN (MEDICINE)	Е		
333	CARDIAC CATHETERIZATION	Е		
334	CARDIAC STRESS TEST/ETT	Е		
335	PADRECC PARKINSON'SDISEASERECC	Е		
350	GERIATRIC PRIMARY CARE	Е		1
000		12	1	_I

351	ADVNCD ILLNESS COOR	Е			
370	CARE(AICC) LTC SCREENING (2ND ONLY)			S	
370 401	GENERAL SURGERY	Е		G	
402	CARDIAC SURGERY	E			
403	ENT	E			
404	GYNECOLOGY	E			
405	HAND SURGERY	E			
406	NEUROSURGERY	E	+ +		
407	OPHTHALMOLOGY	E			
408	OPTOMETRY	E	+		
409	ORTHOPEDICS	E			
410	PLASTIC SURGERY	E			
411	PODIATRY	Е			
412	PROCTOLOGY	Е			
413	THORACIC SURGERY	Е			
414	UROLOGY	Ε			
415	VASCULAR SURGERY	Е			
416	AMB SURGERY EVAL BY NON- MD	Ε			
417	PROSTHETICS/ORTHOTICS	E			
418	AMPUTATION CLINIC	Е			
419	ANESTHESIA PRE/POST-OP CONSULT	Е			
420	PAIN CLINIC	Е			
421	VASCULAR LABORATORY	Е			
422	CAST CLINIC	Е			
423	PROSTHETIC SUPPLY DISPENSED	Е			
424	TELEPHONE/SURGERY		Р		
425	TELEPHONE/PROSTHETICS/OR THOTIC		Р		
426	WOMEN SURGERY	Е			
427	PRIMARY CARE/SURGERY	Е			OCT 1,1997
428	TELEPHONE/OPTOMETRY		Р		
429	OUTPATIENT CARE IN OR		Р		
430	CYSTO ROOM UNIT FOR OUTPATIENT	Е			
431	CHEMOTHERAPY PROC. UNIT- SURG.	Е			
432	PRE-BED CARE MD (SURGERY)	Е			
433	PRE-BED CARE RN (SURGERY)	E	+ +		1
$435 \\ 435$	SURGICAL PROCEDURE UNIT	E	+ +		
$435 \\ 436$	CHIROPRACTIC CARE IN MED		+ +		
	CTR	Ε			
449	FITTING & ADJSTMNTS 2ND ONLY			S	
450	COMPENSATION & PENSION			\mathbf{S}	

451 to	Local use		a	
456			S	
457	TRANSPLANT		S	
458 to	Local use (delete 473 TBPPD		S	
473	SHOT)			
474	RESEARCH		S	
475 to	Local use		S	
479				
480	COMPREHENSIVE		\mathbf{S}	
481	FUNDOSCOPY		S	
481 482 to	BRONCHOSCOPY Local use		6	
$\frac{482}{485}$	Local use		S	
501	HOMELESS MENTALLY ILL			OCT 1,1994
001	OUTREACH	Е		001 1,1001
502	MENTAL HEALTH CLINIC - IND	Е		
503	MH RESIDENTIAL CARE IND	Е		
504	IPCC MEDICAL CENTER VISIT	Е		APR 1,1997
505	DAY TREATMENT-INDIVIDUAL	Е		
506	DAY HOSPITAL-INDIVIDUAL	Е		
507	DRUG DEPENDENCE-	F		APR 1,1997
	INDIVIDUAL	Е		
508	ALCOHOL TREATMENT-	Е		APR 1,1997
	INDIVIDUAL	Ľ		
509	PSYCHIATRY-MD INDIVIDUAL	Е		
510	PSYCHOLOGY-INDIVIDUAL	Е		
511	NEUROBEHAVIORAL-	Е		OCT 1,1993
	INDIVIDUAL			
512	PSYCHIATRY CONSULTATION	Е		
513	SUBSTANCE ABUSE -	E		
	INDIVIDUAL			
514	SUBSTANCE ABUSE - HOME	Е		
~ 1 ~	VISIT	D		ADD 1 1007
515	CWT/TR-HCMI	E		APR 1,1997
516	PTSD - GROUP	E		
516	PTSD - GROUP	E		ADD 1 1007
517	CWT SUBSTANCE ABUSE	E		APR 1,1997
518	CWT/TR-SUBSTANCE ABUSE	Е		APR 1,1997
519	SUBST USE DISORDER/PTSD	Е		
500	TEAMS			
520	LONG-TERM ENHANCEMENT, INDIVID	Е		
521	LONG-TERM ENHANCEMENT,			
041	GROUP	E		
522	HUD/VASH	Е		
522 523	OPIOID SUBSTITUTION	E		1
$\frac{525}{524}$	ACTIVE DUTY SEX TRAUMA	E		1
524 525	WOMEN'S STRESS DISORDER			
5-5	TEAMS	E		1

526	TELEPHONE/SPECIAL PSYCHIATRY	Е		APR 1,1997
527	TELEPHONE/GENERAL PSYCHIATRY		Р	
528	TELE/HOMELESS MENTALLY ILL		Р	
529	HCHV/HMI		Р	
530	TELEPHONE/HUD-VASH		P	
531	MH PRIMARY CARE TEAM - IND	Е	-	
532	PSYCHOSOCIAL REHAB - IND	E		
533	MH INTERVNTION BIOMED CARE IND	E		
535	MH VOCATIONAL ASSISTANCE - IND	Е		
536	TELEPHONE/MH VOC ASSISTANCE		Р	
537	TELEPHONE/PSYCHOSOCIAL REHAB		Р	
538	PSYCHOLOGICAL TESTING	Е		
540	PCT POST-TRAUMATIC STRESS- IND		Р	
541	PTSD POST-TRAUMATIC STRESS	Е		JAN 1,1991
542	TELEPHONE/PTSD		Р	
543	TELEPHONE/ALCOHOL DEPENDENCE	Е		APR 1,1997
544	TELEPHONE/DRUG DEPENDENCE	Е		APR 1,1997
545	TELEPHONE/SUBSTANCE ABUSE		Р	
546	TELEPHONE/MHICM		Р	
547	INTENSIVE SUBSTANCE ABUSE TRMT	Е		
550	MENTAL HEALTH CLINIC- GROUP	Е		
551	IPCC COMM CLN/DAY PROGRAM VST	Е		APR 1,1997
552	MENTAL HLT INT CASE MGT(MHICM)		Р	
553	DAY TREATMENT-GROUP	Е		
554	DAY HOSPITAL-GROUP	Е		
555	DRUG DEPENDENCE-GROUP	Е		APR 1,1997
555	DRUG DEPENDENCE-GROUP	Е		APR 1,1997
556	ALCOHOL TREATMENT-GROUP	Е		APR 1,1997
557	PSYCHIATRY - MD GROUP	Е		
558	PSYCHOLOGY-GROUP	Е		
559	PSYCHOSOCIAL REHAB - GROUP	Е		
560	SUBSTANCE ABUSE - GROUP	Е		

561	PCT-POST TRAUMATIC STRESS- GRP		Р	
562	PTSD - INDIVIDUAL	Е		
562	PTSD - INDIVIDUAL	Ε		
563	MH PRIMARY CARE TEAM - GROUP	Е		
564	MH TEAM CASE MANAGEMENT	Е		
565	MH MEDICAL CARE ONLY- GROUP	Е		
566	MH RISK-FACTOR-REDUCTION ED GR	Е		
567	MHICM GRP MTLHLTH INTSV CS MGT		Р	
571	READJUSTMENT COUNSELING- INDIV	Е		JAN 31,1994
572	READJUSTMENT COUNSELING- GROUP	Е		JAN 31,1994
573	MH INCENTIVE THERAPY - GROUP	Е		
574	MH COMP WORK THERAPY (CWT) GRP	Е		
575	MH VOCATIONAL ASSISTANCE- GRP	Е		
576	PSYCHOGERIATRIC - INDIVIDUAL	Е		
577	PSYCHOGERIATRIC CLINIC - GROUP	Е		
578	PSYCHOGERIATRIC DAY PROGRAM	Е		
579	TELEPHONE/PSYCHOGERIATRI CS		Р	
580	PTSD DAY HOSPITAL	Е		
581	PTSD DAY TREATMENT	E		
589	NON-ACTIVE DUTY SEX TRAUMA	Е		
590	COMM OUTREACH HOMELESS VETS	Е		
601	ACUTE HEMODIAL TREATMENT	Е		OCT 1,1990
602	CHRON ASSISTED HEMODIAL TREAT		Р	
603	LIM SELF CARE HEMODIAL TREAT		Р	
604	HOME/SELF HEMODIAL TRAIN TREAT		Р	
605	ACUTE PERITONEAL DIAL TREAT		Р	OCT 1,1990
606	CHRON ASSISTED PERIT DIALYSIS		Р	
607	LIM SELF CARE PERIT		Р	

	DIALYSIS				
608	HOME/SELF PERIT DIALYSIS TRAIN		Р		
610	CONTRACT DIALYSIS		Р		
611	TELEPHONE/DIALYSIS		Р		
640	SEND-OUT PROCS NOT FEE		Р		
641	SEND-OUT PROCS-DOD NOT FEE		Р		
642	SEND-OUT PROCS FEE		Р		
650	CONTRACT NURSING HOME DAYS		Р		
651	STATE NURSING HOME DAYS		Р		
652	STATE DOMICILIARY HOME DAYS		Р		
653	STATE HOSPITAL CARE		Р		
654	NON VA RESIDENTIAL CARE DAYS		Р		
655	COMMUNITY NON-VA CARE		Р		
656	DOD NON-VA CARE		Р		
657	ASSIST LIVING VENDOR WORK		Р		
660	CHIROPRACTIC CARE OUTSIDE VA		Р		
670	ASSIST LIVING, VHA-PAID STAFF		Р		
680	HOME/COMMUN HEALTHCARE ASSESS	Е			
681	VA-PAID HOME/COMMUN HEALTHCARE		Р		
682	VA-REFER HOME/COMMUN CARE PROV		Р		
683	NONVIDEO HOME TELEHEALTH MONIT		Р		
684	NONVIDEO HOME TELEHEALTH INTER			S	
690	TELEMEDICINE			\mathbf{S}	
691	PRE-EMP PHYS MILITRY PERSONNEL	Е			
692	TELMD CNSLT SM STA 2ND ONLY			S	
693	TELMD CNSLT NOT SM STA 2NDONLY			S	
701	BLOOD PRESSURE CHECK			\mathbf{S}	
702	CHOLESTEROL SCREENING			\mathbf{S}	OCT 1,2002
703	MAMMOGRAM (CAN BE PRIMARY)	Е			
704	PAP TEST			S	
705	FOBT - GUIAC SCREENING			S	OCT 1,2002
706	ALCOHOL SCREENING			S	
707	SMOKING CESSATION		1	\mathbf{S}	

708	NUTRITION			S	OCT 1,2002
709	PHY FIT/EXERCISE			S	OCT 1,2002
	COUNSELING			G	
710	INFLUENZA IMMUNIZATION			S	
711	INJURY COUNSEL/SEAT BELT			S	OCT 1,2002
	USAGE				
712	HEP C REGISTRY PATIENT			S	
713	GAMBLING ADDICTION (2ND ONLY)			S	
714	OTHER EDUCATION 2ND ONLY			S	
715	ONGOING TRTMT (NON-MH) 2ND			S	
716	POST SURG RTINE AFTRCARE 2ND			S	
725	DOMICILIARY OUTREACH SERVICES	Е			
726	DOM AFTERCARE - COMMUNITY	Е			
727	DOMICILIARY AFTERCARE - VA	Е			
728	DOMICILIARY ADM SCREENING SVCS	Е			
729	TELEPHONE/DOMICILIARY		Р		
730	DOM GENERAL CARE	Е			
731	PRRTP GENERAL CARE	Е			
801	IN-VISN, OTHER VAMC 2ND ONLY			S	
802	OUT OF VISN, VA 2NDARY ONLY			S	
803	COMMERCIAL 2NDARY ONLY			S	
900	SPECIAL SERVICES	Е			OCT 1,1998
902	COMPUTED TOMOGRAPHY SCANS	Е			APR 1,1989
903	RADIATION THERAPY	E			APR 1,1989
904	CHEMOTHERAPY	Е			MAR 1,1989
905	AMBULATORY SURGERY SERVICES	Е			APR 1,1989
906	BLOOD/BLOOD PRODUCTS TRANS.	Е	1		APR 1,1989
907	NUCLEAR MAGNETIC RESONANCE	Е			APR 1,1989
999	EMPLOYEE HEALTH		Р		

4.0 Appointment Selection Logic

<u>The initial run</u> of the Patient Appointment Information Transmission logic will review and select all pending patient appointments created one year prior to the run date. That date was determined to be Sep 1st, 2002. Additionally, pending appointments created since Sep 1st 2002 are submitted as well. There are two appointment statuses: pending and final. The appointment can be sent only once for a pending and once for a final status, for example, an appointment sent for the first time with a pending status will be sent again if its status is changed to final. An appointment with a final status, sent for the first time, will not be sent again. The Patient Appointment Info Log file (#409.6) is created to track the transmitted appointments.

<u>On subsequent transmissions</u> all appointments with the Date Appointment Created after the prior transmission are added to the new transmission. The Patient Appointment Info Log file is examined for appointments whose statuses have changed from pending to final and they are also added to the new transmission by creating new entries in the Patient Appointment Info Log file. Those new entries are created with the Retention Flag field equals "N", corresponding to the Final status. The Retention Flag in the original entry is changed from "Y" to "S" – Sent as Final or to "R" – Sent as Rejected if the original entry was rejected.

The final or pending status of an appointment is determined by its associated primary and secondary identifiers, Defined as SCH6 Event Reason and SCH.8 Appt Type. Please note that all 'check-out (CO)' appointments are considered to be final, including those that are still 'action required (AR). That decision has been made on an assumption that the appointment is final when the 'check-out' process is initiated, meaning a patient is present for the appointment. The identifiers, SCH.6 Event Reason and SCH.8 Appointment Type, as well as pending versus final status, represented by SCH.25 Filler status, are mapped in the SIU Event Mapping Table.

The identifiers were determined to reflect the existing computed appointment status in **VistA** application. Additionally several new identifiers are defined, for allowing to trace continuity of canceled and rescheduled appointments, and for selecting proper appointments from the scheduled 'non-count' clinic group.

All update records should be Final and their previous base records, if any, should be Pending. With the update transmission you receive Pending and Final records but Finals may be new ones or updates to the previously sent Pending appointments. All new Pending records are generated starting from the last creation date from the previous transmission.

SIU	SCH.25 Filler	SCH.6 Event Reason	SCH.8 Appt Type
Event	status		
S12	Pending	Check-in (CI)	Action required (AR)
S12	Pending		No Action Taken (NAT)
S12	Pending		Future (F)
S12	Pending		Non Count (NC)
S12	Pending		Inpatient (I)
S12	Pending		Non Count Future (NCF)
S26	Final	No Show (NS)	
S26	Final	No Show (NS)	Auto Rebook (ABK)
S15	Final	Cancelled by Clinic (CC)	Re-schedule (RS)
S 15	Final	Cancelled by Clinic (CC)	
S15	Final	Cancelled by Clinic (CC)	Auto Rebook (ABK)
S15	Final	Cancelled by Patient (CP)	Re-schedule (RS)
S15	Final	Cancelled by Patient (CP)	
S15	Final	Cancelled by Patient (CP)	Auto Rebook (ABK)
S12 or S14	Final	Check Out by Encounter (COE)	Non Count (NC)
S12 or S14	Final	No Match (NM)	Non Count (NC)
S12 or S14	Final	Check-out (CO)	Action required (AR)
S12 or S14	Final	Check-out (CO)	Inpatient (I)
S12 or S14	Final	Check-out (CO)	Out patient (O)
S15	Final	Cancelled Terminated (CT)	

The above table expresses all of the appointment attributes required for a given appointment state. Event reason and appointment type are interpreted as the primary and alternate identifiers.

<u>Auto Rebook (ABK) –</u> This appointment type represents an appointment that has been recently or originally rebooked. We may have appointments originally finalized in VistA as No Show with Auto Rebooking, but their status may be changed into any other status if No Show status is canceled in VistA. In this way the originally entered Auto Rebooking Date may be sent with different Event Reason and/or Appointment Type, not related to the Auto Rebooked Date.

<u>Re-scheduled (RS)</u> – This appointment type is assigned to each canceled appointment if another appointment for a clinic with the same DSS ID (stop code) was scheduled on the same date as the cancellation took place. That situation

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occurs very often when the auto-rebooking feature is not used. There is an assumption that the newly scheduled appointment is a continuation of the canceled one.

<u>Cancelled Terminated (CT)</u> – This is the Even Reason identifier used to finalize an appointment that was sent as pending and then, during the update process it has been determined that a new appointment is created for the same date and time. That situation causes the previous appointment record to be overridden by the new appointment record with a new creation date.

<u>Future (F)</u> – This Appointment Type applies to all appointments except created for non-count Hospital Locations, that have Type: <u>Non Count Future (NCF)</u>.

Non-count clinic appointments.

In the current **VistA** functionality, there are many non-count clinics that have scheduled appointments for valid patient care. Any site that is using Event Capture and/or the Surgery packages set up NON COUNT clinics for scheduled appointments. The encounters for these appointments are passed through a SEPARATE COUNT CLINIC with a status of CHECKED OUT. The process to capture those appointments has been established and it is described below. <u>Non Count Future (NCF)</u> - Scheduled for non-count clinic for the future days starting from the next date to the running date

<u>Check Out By Encounter (COE)</u>. If there is an outpatient encounter entry with the Originating Process Type field (#.08) value equal 2 – Stop code Addition for the same date, and both DSS Clinic Id and DSS Credit Stop match in non-count and count clinic then COE is assigned to the appointment and the count clinic data is returned with this final transmission for this appointment.

<u>No Match (NM)</u> This Event Reason is assigned if a related outpatient encounter, see above, has not been found. If this appointment is evaluated for the first time it is not sent at all. It will be sent with its final status if it was sent before as pending.

<u>Non Count (NC)</u> – This Appt Type without any value of the Event Reason is sent if its scheduled date already passed but not more than 2 days. That time is left because of a possible delay in updating a potential matching encounter.

4.1 Acknowledgement Processing Logic

Acknowledgements are processed in enhanced mode, full two-phased commit. A commit acknowledgement is requested and processed automatically by the **VistA** HL7 application. Application acknowledgements from the receiving AAC

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application may generate three types of messages: whole batch accept, whole batch accept with rejections, and whole batch reject. That last type has not been generated at this time and instead the SD-PAIT Manual Batch Rejection may be used.

4.2 Whole Batch Accept

The batch message and all included messages are accepted by the receiving AAC application. Upon receipt of this message the sending **VistA** application executes program logic to update entries in file 409.6, PATIENT APPOINTMENT INFO LOG, associated with the batch message. Internal cross-references are examined and those entries in which field #4, RETENTION FLAG, do not equal "Y" (For YES - to be sent when 'Final') are deleted from the file.

4.3 Whole Batch Reject

The batch message and all included messages may be rejected by manual rejection and in the future by the receiving AAC application. Upon receipt of this message the sending **VistA** application executes program logic to update entries in file 409.6, PATIENT APPOINTMENT INFO LOG, associated with the batch message. Field #7, ERROR MESSAGE, is updated with the rejection code "R". If Field #4, RETENTION FLAG, equals "Y" (For YES - to be sent when 'Final') entry updates are complete. The sending application will send those records again, even if they are final,,based on the rejection identified in the Error Message field (# 7). If the RETENTION FLAG equals "N" (For NO - was sent as 'Final') then the RETENTION FLAG is changed to "Y", making that entry available for resending, and entry updates are complete. No entries in file 409.6 are deleted.

4.4 Whole Batch Accept with Rejections

The batch message is accepted, but some individual messages are rejected by the receiving AAC application. Upon receipt of this message the sending **VistA** application executes program logic to update entries in file 409.6, PATIENT APPOINTMENT INFO LOG, associated with the batch message. Individual message rejections are processed in the same fashion as a whole batch rejection and the remaining messages, those accepted, are processed as a whole batch accept. Messages rejected individually may have the Error Message field (#7) updated with a pointer to one of rejection codes from table AAC001 –Error Code Set.

4.5 Rejected Appointments Processing

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All entries in the PATIENT APPOINTMENT INFO LOG that were marked as rejected by the Acknowledgement processing, are evaluated during transmission as follows.

- 1. There is not a verification if the rejected entry was corrected. The acknowledgement sends a notification about rejects and if the rejection codes are listed, they should be corrected before the follow-up transmission. Option SD-PAIT REJECTED should be used to generate a report of rejected appointments. If only a rejection code of "R" code was entered, nothing has to be done because such a message means that the whole batch was rejected and all related appointments will be sent again.
- 2. The rejected appointment is transmitted, again it does not matter if has been corrected or not, and a new entry is created in the PATIENT APPOINTMENT INFO LOG with the current appointment status. The original entry marked as rejected is updated with "R" Resent as Rejected in the Retention Flag field.

5.0 Messages Examples

Example Batch Message with the Consult Request Date - SCH.11

BHS^~|\&^SD-AAC-PAIT^200^SD-SITE-PAIT^500^20040408140937^^~P~ACK~2.4~AL~NE^AE^200404-5003^5003 MSH^~|\&^SD-SITE-PAIT^500^SD-AAC-PAIT^200^^^SIU~S12^5003236-1^D^2.4^^AL^AL^USA SCH^1^^^^4^ATAT^^~~~20030908~~~Date Appt Created Date Date ---200309180800~~~Appt Date | -----Checkout Date | -----Cancellation Date | -----Resched Date | ~~~200309010930~~~Consult Request Date PID^1^^""~~USVHA&&L~NI|7171938~~~USVHA&&L~PI^MOLFIK~EDZIU^19301212^^^^~~~19107^^^^^2081212 30P PV1^1^0^^^^^500 PV2^^^^^SHB AIP^1^^1934~PETERSON~JAMES~R^Provider AIL^1^^422~~~~~CECELIA'S CLINIC^402~CARDIAC SURGERY~DSS CLINIC ID^418~AMPUTATION CLINIC~DSS Credit Stop ZEN^1^^^^5 7.SP^1^N^ MSH^~|\&^SD-SITE-PAIT^500^SD-AAC-PAIT^200^^^SIU~S15^5003236-2^D^2.4^^AL^AL^USA SCH^1^^^^CC^3^RS^^^~~20030829~~~Date Appt Created ~~20030829~~~Desired Date | ~~~200308291330~~~ Appt Date | ~~~~~ Checkout Date | ~~~200308290940~~~ Cancellation Date | ~~~~Auto-rebook Date | ~~~200308291030~~~Resched Date | ~~~200308200820~~~Consult Request Date ~~~~~~~~~~~~~~~~~~~~~~F PID^1^^""~~USVHA&&L~NI|7172069~~~USVHA&&L~PI^YORTY~OUTPATIENT^19710604^^^^~~~~17042^^^^^509 060471P PV1^1^U^^^^^500 PV2^^^^^SHB AIP^1^^1934~PETERSON~JAMES~R^Provider AIL^1^^614~~~~~~VORTY'S CLINIC^329~MEDICAL PROCEDURE UNIT~DSS Clinic ID^~~DSS Credit Stop ZEN^1^^^^1 7.SP^1^Y^60 MSH^~|\&^SD-SITE-PAIT^500^SD-AAC-PAIT^200^^^SIU~S15^5003236-3^D^2.4^^AL^AL^USA SCH^1^^^^CP^3^RS^^^~~20030829~~~Date Appt Created ~~20030829~~~Desired Date | ~~~200309010815~~~ Appt Date | ~~~~ Checkout Date | ~~~ 200308290856~~~ Cancellation Date | ~~~~~Auto-rebook Date | ~~~200309010815~~~Resched Date | ~~~200308010710~~~Consult Request Date · · · · PID^1^^""~~USVHA&&L~NI|7172424~~~USVHA&&L~PI^^VILELLA~JOEY~ASHLEY~III~MR^^19490 416^^^^~~~~33354^^^^^^244990005 PV1^1^U^^^^^ 500 PV2^^^^^NTF AIL^1^^312~~~~~~XXXXX^102~ADMITTING/SCREENING~DSS Clinic ID^104~PULMONARY FUNCTION~DSS Credit Stop ZSP^1^N^ BTS^3

Example Application Acknowledgement Message:

 $BHS^{+} \ \& \ SD-AAC-PAIT^{200} \ SD-SITE-PAIT^{500} \ 20030918085247-0500^{+} P-ACK \ | \ S12^{-}2.4^{-}AL^{-}NE^{+}AA^{-}104^{+}5001738 \ MSA^{+}AA^{+}5001738^{+} BTS^{+}1$

Appendix B - VistA Interface Engine Site I.P. Addresses

You should know IP address from your messaging team, to be entered with SD-PAIT Logical Link. This is address to send PAIT in HL7 format to your local VIE box.

Appendix C – Trouble Shooting

File 409.6 (PATIENT APPOINTMENT INFO LOG) is populated with SDPAIT transmission records and is self maintaining. Entries are purged automatically when a final status appointment is transmitted and acknowledgements received. No user or programmer intervention is required.

Members of the SD-PAIT mail group will receive notifications when batch transmissions are complete. Mail group members will also be notified when acknowledgements to the batch messages are received.

Mail Notifications

If mail message notifications are not received by members of the SD-PAIT mail group check the following:

Insure the SD-PAIT link is active by doing the following from the HL7 Main Menu

Select HL7 Main Menu Option:

Systems Link Monitor Filer and Link Management Options ... Message Management Options ... Interface Developer Options ... Site Parameter Edit

Select HL7 Main Menu Option: Filer and Link Management Options

- SM Systems Link Monitor
- FM Monitor, Start, Stop Filers
- LM TCP Link Manager Start/Stop
- SA Stop All Messaging Background Processes
- RA Restart/Start All Links and Filers
- DF Default Filers Startup
- SL Start/Stop Links
- PI Ping (TCP Only)
- ED Link Edit
- ER Link Errors ...

Select Filer and Link Management Options Option: SL Start/Stop Links

This option is used to launch the lower level protocol for the appropriate device. Please select the node with which you want to communicate

Select HL LOGICAL LINK NODE: SD-PAIT This LLP has been enabled!

```
Systems Link Monitor
  SM
  FM
       Monitor, Start, Stop Filers
       TCP Link Manager Start/Stop
  LM
       Stop All Messaging Background Processes
  SA
        Restart/Start All Links and Filers
  RA
       Default Filers Startup
  DF
  SL Start/Stop Links
  PI Ping (TCP Only)
  ED
        Link Edit
  ER
        Link Errors ...
Select Filer and Link Management Options Option: SL Start/Stop Links
This option is used to launch the lower level protocol for the
appropriate device. Please select the node with which you want
to communicate
Select HL LOGICAL LINK NODE: SD-PAIT
This LLP has been enabled!
```

HL7 System Monitor

All outgoing HL7 messages are sent over this link. You can verify activity on this link with the System Monitor Utility of the HL7 package:

NODE		MESSAGES PROCESSED	MESSAGES		DEVICE TYPE	STATE
SD-PAIT	1	1	12	1	NC	Enabled
	filers runn filers runn	-		askMan ru Jink Manag	-	~
		111g -> 5	L	uuk nanag	er rummin	9
Select a ((N)EXT (B)ACH		LINKS (S)C	REENED (V)IEWS (Q)UIT (?)	HELP:

In the example screen above the TO SEND column lists 12 messages and the SENT column 1. If your SENT column does not increment to match the TO SEND column it may be necessary to stop and then start the SD-PAIT link as mentioned above.

VistA Interface Engine

REDACTED

XTMP Global

A temporary snapshot of each record deleted by the HL7 acknowledgement processing logic is created in Global ^XTMP("SDRPA-"_BATCHNUMBER, You may view this global to confirm acknowledgement processing.

VistA Reporting

Figure 1 indicates the reports that may be generated at each site after transmission has completed. By entering the first three letters of the desired report will initiate that report.

Acknowledgement Summary Pending Transmissions Rejected Transmissions Transmission Summary

Figure 1

Acknowledgement Summary:

The Acknowledgement Summary may be used to verify the batch numbers generated from a particular site (Figure 2). This report lists all batches in Batch Control ID order. The report also indicates the Message Control ID, the Acknowledgement Date, and Acknowledgement Type. The following Acknowledgement Types are indicated:

> Application Accept - AA Application Error - AE Application Reject - AR Manual Rejection - MR

PAIT ACK SUMMARY		FEB 27,2004	11:26 PAGE 1
		APPLICATION ACK	APPLICATION ACK
BATCH CONTROL ID	MESSAGE CONTROL ID	DATE/TIME	TYPE
TRANSMISSION FIN	NISHED: FEB 20,2004 20:45		
75611134952	75615626811	FEB 24,2004 08:38	APPLICATION ACCEPT
75611135142	75615627064	FEB 24,2004 08:39	APPLICATION ACCEPT
75611135273	75615627292	FEB 24,2004 08:40	APPLICATION ACCEPT
75611135591	75615627625	FEB 24,2004 08:41	APPLICATION ACCEPT
75611135943	75615628077	FEB 24,2004 08:42	APPLICATION ACCEPT
75611136242	75615628454	FEB 24,2004 08:43	APPLICATION ACCEPT
75611136597	75615628914	FEB 24,2004 08:44	APPLICATION ACCEPT
75611136841	75615629306	FEB 24,2004 08:45	APPLICATION ACCEPT
75611137250	75615629892	FEB 24,2004 08:46	APPLICATION ACCEPT
75611137757	75615630556	FEB 24,2004 12:49	APPLICATION ERROR
75611138197	75615631071	FEB 24,2004 12:50	APPLICATION ACCEPT
75611138675	75615631643	FEB 24,2004 12:50	APPLICATION ACCEPT
75611138981	75615632257	FEB 24,2004 12:51	APPLICATION ACCEPT
75611139225	75615632561	FEB 24,2004 12:52	APPLICATION ACCEPT
75611139441	75615632855	FEB 24,2004 12:53	APPLICATION ACCEPT
75611139687	75615633142	FEB 24,2004 12:54	APPLICATION ACCEPT
75611139729	75615633201	FEB 24,2004 12:54	APPLICATION ACCEPT
75611139775	75615633241	FEB 24,2004 12:55	APPLICATION ERROR
75611139829	75615633301	FEB 24,2004 12:56	APPLICATION ACCEPT
75611139855	75615633327	FEB 24,2004 12:56	APPLICATION ACCEPT
75611140007	75615633495	FEB 24,2004 12:57	APPLICATION ACCEPT
75611140038	75615633536	FEB 24,2004 12:58	APPLICATION ACCEPT
75611140066	75615633568	FEB 24,2004 12:59	APPLICATION ACCEPT
75611140072	75615633574	FEB 24,2004 13:00	APPLICATION ACCEPT
75611140100	75615633634	FEB 24,2004 13:00	APPLICATION ACCEPT
75611140118	75615633652	FEB 24,2004 13:01	APPLICATION ACCEPT
75611140124	75615633658	FEB 24,2004 13:02	APPLICATION ACCEPT
75611140140	75615633672	FEB 24,2004 13:02	APPLICATION ACCEPT
75611140150	75615633683	FEB 24.2004 13:03	APPLICATION ACCEPT

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75611140160	75615633693	FEB 24,2004 13:04	APPLICATION ACCEPT
75611140170	75615633704	FEB 24,2004 13:04	APPLICATION ACCEPT
75611140176	75615633710	FEB 24,2004 13:05	APPLICATION ACCEPT
75611140188	75615633722	FEB 24,2004 13:05	APPLICATION ACCEPT
75611140190	75615633724	FEB 24,2004 13:05	APPLICATION ACCEPT
TRANSMISSION	FINISHED: FEB 25,2004 16:02		
75611182041	75615685674	FEB 26,2004 10:41	APPLICATION ACCEPT
75611182938	75615686799	FEB 26,2004 10:42	APPLICATION ERROR

Figure	2
--------	---

Note: AR – The whole batch rejection from the AAC has not been implemented at this time and will be future enhancement. Figure 2 shows acknowledgements received for two transmissions.

Pending Transmission:

The Pending Transmission report (Figure 3) is to be used by VistA sites only to take an action of finalizing appointments with the appointment scheduled date (APPT_DATE) already in the past. These records should be "Check Out" or Cancelled. This report lists all Patient Pending records by Date Appointment Made. A print of the report is not included due to sensitive information.

Rejected Transmission:

The Rejected Transmission report should be used to review and correct patient records that the AAC rejected. Rejections can occur due to incomplete dates, invalid site/facility codes not matching the site sending the information, etc. for a particular site (Figure 3). See table AAC001 - Error Code Set for rejection code definition.

The VistA should use this report for correcting their patient appointment records. Once the VistA has corrected the record it will be sent to the National Data Base in the next bi-monthly update run and loaded into the National Database. The correction of rejected records is the VistA site's responsibility.

REJECTED TRANSMISSION L	lOG	FEB 27,2004 11:34 F	PAGE 1 ERROR
PATIENT CLINIC	APPT DATE	SHORT DESCRIPTION	MESSAGE
ERROR MESSAGE: 350 PUBLIC,JOHN Q FLU SHOT CLINIC	OCT 6,2003 15:56	HL7 date is not in proper format or is missin	g 350

Figure 3

Note: The most commonly expected rejection codes are 350 and 200, see TABLE AAC001-Error Code Set. Error 350 is mostly caused by too old desired date of appointment, filed in VistA sub file 1900 of the Patient File.

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It has been also determined that in some situation the Rescheduled date has not acceptable date starting from 1800. That Rescheduled date is identified by PAIT if the following process:

1. An appointment is canceled without re-booking.

2. If there is another appointment created on the same day as the cancellation date, and for the same clinic there is an assumption that this is continuation of that scheduling, and that new scheduled date/time is included with the original appointment as the Reschedule Date.

3. The first available appointment meeting criteria listed in 2. is processed.

4. It came out that randomly some appointments have their scheduled date/time starting from 1800, and this date is causing rejection by the AAC as well.

5. If you cannot find an "odd" date with your original appointment you should look for "ADSAM" cross reference in the Patient file with the cancellation date and the patient DFN, to see what "odd" appointments were scheduled, and if so to remove them after evaluation what else needs to be done.

6. Removal of that "odd" appointment would prevent the original appointment from being sent with The "bad", not acceptable Rescheduled Date.

Error 200

Error 200 indicates that an entry in the Hospital Location file #44 is configured with the DIVISION field (3.5) pointing to a Medical Center Division entry whose Institution pointer conflicts with the facility station number.

Hint: Correct the Hospital Location entry's Division field (3.5) to point to the correct Medical Center Division, or correct the Institution pointer of the Medical Center Division.

Transmission Summary:

The Transmission Summary report may be used to determine the total number of patient appointment records, the run date, total number of batches, Batch Control ID, Message Control ID, and date/time stamp (Figure 4). It can be requested by EVS, National Help Desk and /or AAC for matching transmitted batches with those received. at the AAC.

LAST SCANNED # OF RUN DATE DATE APPOINTMENTS # OF BATCH CREATE BATCHES BATCH CONTROL ID DATE/TIME MESSAGE CONTROL ID 	TRANSMISSIC	ON SUMMARY			FEB 27,2004 11:35 PAGE 1	L
RUN DATE DATE APPOINTMENTS # OF BATCH CREATE BATCHES BATCH CONTROL ID DATE/TIME						
# OF BATCH CREATE BATCHES BATCH CONTROL ID DATE/TIME MESSAGE CONTROL ID						
BATCHES BATCH CONTROL ID DATE/TIME MESSAGE CONTROL ID	RUN DATE	DATE A	PPOINTME	NTS		
BATCHES BATCH CONTROL ID DATE/TIME MESSAGE CONTROL ID	# OF	DATIO				
FFB 20 2004 FFB 19 2004 165317	BATCHES	BATCH CONTR	OL ID	DATE/TIME	MESSAGE CONTROL ID)
L FEB 20 2004 FEB 19 2004 165317						
FED 20,2004 FED 19,2004 100517	FEB 20,2004	FEB 19,2004	165317			
<u>34</u> 75611134952 FEB 20,2004 12:20 75615626811	34	75611134952	2	FEB 20,2004 12:20	75615626811	

	75611135142	FEB 20,2004 12:36	75615627064
	75611135273	FEB 20,2004 12:51	75615627292
	75611135591	FEB 20,2004 13:09	75615627625
	75611135943	FEB 20,2004 13:28	75615628077
	75611136242	FEB 20,2004 13:42	75615628454
	75611136597	FEB 20,2004 13:58	75615628914
	75611136841	FEB 20,2004 14:14	75615629306
	75611137250	FEB 20,2004 14:36	75615629892
	75611137757	FEB 20,2004 14:59	75615630556
	75611138197	FEB 20,2004 15:21	75615631071
	75611138675	FEB 20,2004 15:42	75615631643
	75611138981	FEB 20,2004 16:01	75615632257
	75611139225	FEB 20,2004 16:18	75615632561
	75611139441	FEB 20,2004 16:35	75615632855
	75611139687	FEB 20,2004 16:51	75615633142
	75611139729	FEB 20,2004 17:04	75615633201
	75611139775	FEB 20,2004 17:17	75615633241
	75611139829	FEB 20,2004 17:34	75615633301
	75611139855	FEB 20,2004 17:48	75615633327
	75611140007	FEB 20,2004 18:03	75615633495
	75611140038	FEB 20,2004 18:17	75615633536
	75611140066	FEB 20,2004 18:31	75615633568
	75611140072	FEB 20,2004 18:44	75615633574
	75611140100	FEB 20,2004 18:58	75615633634
	75611140118	FEB 20,2004 19:13	75615633652
	75611140124	FEB 20,2004 19:26	75615633658
	75611140140	FEB 20,2004 19:36	75615633672
	75611140150	FEB 20,2004 19:46	75615633683
	75611140160	FEB 20,2004 19:56	75615633693
	75611140170	FEB 20,2004 20:08	75615633704
	75611140176	FEB 20,2004 20:25	75615633710
	75611140188	FEB 20,2004 20:41	75615633722
	75611140190	FEB 20,2004 20:45	75615633724
FEB 25,2004 FE	B 24,2004 8405		
2	75611182041	FEB 25,2004 15:22	75615685674
	75611182938	FEB 25,2004 15:59	75615686799

Figure 4

FORUM Server Reporting

The intended audience for the remainder of the document is Office of Information staff and included for information purposes.

EVS:

On the FORUM server there is a menu for running and viewing the reports for VistA totals, ACK message status, Missing Sites, and Transmitted Sites. These reports may be used to monitor the seeding and bi-monthly updates. These reports will indicate specific activity from each site. The following figure is the menu option available on the FORUM server. Currently there are three more options, and that menu looks as follows:

1	Completed Background Job Report
2	All Ack's Received Report
3	Missing Sites Report
4	Transmitted Sites Report
5	ACK Status Report
6	Site Message History
7	PAIT SUMMARY REPORT

Figure 1 Option 1 Completed Background Job Report

When the program completes at each VistA the "Completed Background Job Report" is populated with the number of patient appointment records that were transmitted to the National Database in Austin (Figure 2). Since the program sends this information in batches (5,000 records maximum) the total batch count is recorded. These two figures should be matched with the AAC Transmitted Site report (Option 4). If they do not match then there is reason to investigate the difference.

756 FEB 25,2004 16:02 2 8 656 FEB 26,2004 06:16 4 18	OF
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	TMENTS
659 FEB 21,2004 02:09 43 2102 649 FEB 22,2004 03:21 30 1472 649 FEB 25,2004 15:02 1 44 756 FEB 25,2004 16:02 2 8 656 FEB 26,2004 06:16 4 180	917
649FEB 22,200403:21301472649FEB 25,200415:02144756FEB 25,200416:02284656FEB 26,200406:164186	317
649 FEB 25,2004 15:02 1 44 756 FEB 25,2004 16:02 2 84 656 FEB 26,2004 06:16 4 180	278
756 FEB 25,2004 16:02 2 8 656 FEB 26,2004 06:16 4 18	223
656 FEB 26,2004 06:16 4 180	985
	405
	691
659 FEB 26,2004 09:55 3 12'	708

Figure 2

Note: The above table includes both seeding and the update transmission from four VistA sites.

In the case they do not match, the Vitria IE monitoring reports will provide information on whether or not the patient appointment records were received and passed along to the Austin Automation Center (AAC). Use the following URL, ID, and password to connect to Messaging and Interface System's site. The ID and password are case sensitive.

> URL: <u>http://vhaaacviev4:8080/ciev/hbase</u> ID = Password =

Check with your site's Information Resources Management (IRM) officer for access.

Option 2 All Ack's Received Report

The "All ACK's Received Report" indicates at the summary level the number of ACK messages processed for each site and the date the process was completed (Figure 3). There is a count figure that indicates the number of sites reported. If in the event the site's ACK message count do not match this can be an indicator that the AAC either did not receive the batch from VistA via the Vitria IE or AAC experienced a problem when processing the batch. In either case, the missing batch(es) will need to be identified and, at this time, the manual batch rejection initiated at the VistA site. To determine the missing batch(es) proceed to Option 5 to view the detailed ACK message status report and a related VistA site has to be contacted to run the Acknowledgement Summary report (VistA Reporting section) with Batch Control ID. They must be compared to the Batch Control ID's received by the AAC.

l ACKs Receiv	1	FEB 27,2004 13:4 Ack's	0 111012
Site	Run Completed	ACK'S	
649	FEB 22,2004	30 of 30	
649	FEB 25,2004	1 of 1	
656	FEB 20,2004	$59 ext{ of } 59$	
656	FEB 26,2004	4 of 4	
659	FEB 21,2004	43 of 43	
659	FEB 26,2004	3 of 3	
756	FEB 20,2004	34 of 34	
756	FEB 25,2004	$2 ext{ of } 2$	
OUNT 8			

Figure 3

Option 3 Missing Sites Report

This option allows EVS and HSD&D to view which site transmissions were not received at the AAC during the seeding or specific update run. The report lists the sites that did not transmit by alphabetical order of Site Name.

Missing Site Report MAR 1,2004 15:23 PAGE 1 MISSING SITE	
# SITE NAME REPORT DATE	
REDACTED COUNT 122	

Figure 4

Option 4 Transmitted Sites Report

This report indicates the total number of patient appointment records and batch counts received at the AAC for each transmitted site along with the date received. This report should be used with "Completed Background Job Report" (Option 1) to determine if there are differences between what the VistA sites reported as transmitted and what the AAC reports as being received. In the case they do not match refer to the instructions outlined in Option 1.

Transm	itted Sites Repo	rt MAR	1,2004 15:28 P	PAGE 1
S	TE			
#	SITE NAME	TOTAL RECORDS	TOTAL BATCH	ES REPORT DATE
REDA	CTED			
COUNT	' 4			

Figure 5

Option 5 ACK Status Report

The "ACK Status Report" indicates at the detail level the receipt of each ACK message for each site (Figure 6). The last detail ACK message record indicates whether the site's ACK message processing is complete ("Yes"). There is a sub count for each site indicating the number of ACK messages processed and count that indicates total ACK messages processed for all sites.

ACK STATUS REPORT SITE NUMBER	RUN	FEB 27,2004 13:41 ACK STATUS	PAGE 1 ACKS COMPLETE DATE/TIME
$ \begin{array}{r} 649 \\ 649 \\ 649 \\ 649 \end{array} $	1 of 30 3 of 30 4 of 30		FEB 24,2004 10:44 FEB 24,2004 11:56 FEB 24,2004 11:56

649	$5 ext{ of } 30$		FEB 24,2004 11:56
649	6 of 30		FEB 24,2004 11:56
649	7 of 30		FEB 24,2004 11:56
649	8 of 30		FEB 24,2004 11:56
649	9 of 30		FEB 24,2004 11:56
649	10 of 30		FEB 24,2004 11:56
649	11 of 30		FEB 24,2004 11:56
649	12 of 30		FEB 24,2004 11:56
649	13 of 30		FEB 24,2004 11:56
649	14 of 30		FEB 24,2004 11:56
649	$15 ext{ of } 30$		FEB 24,2004 11:56
649	$16 ext{ of } 30$		FEB 24,2004 11:57
649	17 of 30		FEB 24,2004 11:57
649	$18 \ {\rm of} \ 30$		FEB 24,2004 11:57
ACK STATUS REPORT		FEB 27,2004 13:41	PAGE 2
SITE		112 20,2001 10.11	ACKS
NUMBER	RUN	ACK STATUS	COMPLETE DATE/TIME
649	2 of 30		FEB 24,2004 11:57
649	19 of 30		FEB 24,2004 14:49
649	20 of 30		FEB 24,2004 14:49
649	20 of 30 21 of 30		FEB 24.2004 14:50
649	21 of 30 22 of 30		FEB 24,2004 14:51
649	22 of 30 23 of 30		FEB 24,2004 14:52
649	24 of 30		FEB 24,2004 14:52
649	24 of 30 25 of 30		FEB 24,2004 14:52 FEB 24,2004 14:53
649	25 of 30 26 of 30		FEB 24,2004 14:53 FEB 24,2004 14:53
649	20 of 30 27 of 30		FEB 24,2004 14:55 FEB 24,2004 14:54
649 649	27 of 30 28 of 30		FEB 24,2004 14:54 FEB 24,2004 14:54
649 649	28 01 30 29 of 30		FEB 24,2004 14:54 FEB 24,2004 14:55
649 649	29 of 30 30 of 30	YES	,
049	30 01 30	1 EO	FEB 24,2004 14:55
SUBCOUNT 30			
		Figuro 6	

Figure 6

NOTE: An example in Figure 6 shows only one station. Please note that Acknowledgements may be received in different order to the transmitted batches.

Each batch has a unique number making it easy to locate should a site's VistA count not equal the count from the AAC. Once the batch control number(s) are located the investigator will need to access the VistA site's Acknowledgement Summary report for the actual Batch Control ID(s) that will need to be manually rejected. The Austin Automation Center generate a summary report of batches received from all sites with a number of appointments and a number of rejections.

Option 6. Site Message History

	PAIT TRAN PAGE 1 SITE	SMISSION LOG LIST		JUL 13,2006	09:39	
	NUMBER	MESSAGE TYPE	DATE/TIME			
January						76
	358	STARTED TRANSMISSION	JUL 1,2006	10:00		
	358	BACKGROUND JOB COMPLETE	JUL 1,2006	10:12		
	358	ACKNOWLEDGMENT	JUL 10,2006	13:59		
	402	STARTED TRANSMISSION	JUL 1,2006	04:00		
	402	BACKGROUND JOB COMPLETE	JUL 1,2006	04:48		
	402	ACKNOWLEDGMENT	JUL 10.2006	14:01		

You can follow up a history of PAIT for each site from its start to receiving acknowledgements.

Option 7. PAIT Summary Report

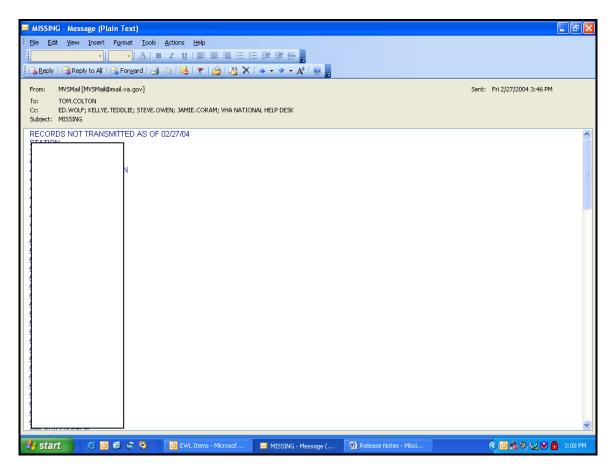
This report is a compilation of all messaging activity from VistA through VIE to the AAC, and gives the best overview of each PAIT activity.

National Help Desk Reporting

Missing Site Reporting

From the AAC:

One the 5th and 19th of every month the AAC will send to VHA National Help Desk an email message indicating those sites that the AAC did not receive patient appointment information transmissions. This report will include the site (facility) number and name. The corresponding report is also sent by the AAC to the Forum Server (see Option 3 in Forum Server Reporting).



VHA National Help Desk

Upon receipt of the email from "MVSMail" listing the sites that did not transmit (Missing Site Report) the VHA National Help Desk will enter a Remedy Ticket the sites that did not transmit. The Remedy Ticket should be assigned to EVS who will begin the investigation process.

EVS

EVS will act upon the receipt of the Remedy Ticket by running the Complete Background Job Report on the FORUM server. This report will indicate whether the site actually gathered data and passed it to the local Vitria IE machine. If the report indicates no activity from the site, EVS will contact the site to determine why the site did not run. Based on the reason, EVS may need to contact other groups to provide assistance. In the case the report indicates there was activity, EVS may need to access the M&IS URL to review the Vitria IE activity reports. The M&IS URL, ID, and password are:

URL: <u>http://vhaaacviev4:8080/ciev/hbase</u> ID = Password = Check with your site's Information Resources Management (IRM) officer for access

CIEV Logon - Microsoft Internet Explorer provided by Roadrunner	- - X
File Edit View Favorites Tools Help	N
🔇 Back 🔹 🕥 - 💌 😰 🕎 🔎 Search 📌 Favorites 🜒 Media 🤣 🔗 - 🌺 🚍 - 🛄 🏭 🚳	
Address 💩 http://vhaaacviev4:8080/ciev/hbase	🔽 🄁 Go 🛛 Links 🌺
Vitria IE Monitoring Reports	
Version: 1.0.4 Mode:logon <u>Main Menu</u> <u>Projects</u>	
Logon is required	
User Id:	
Password: Logon	
Lugar.	
	~
Done	Sccal intranet
🛃 Start 💫 😂 🙆 🥙 🏷 🔯 EWL Items - Microsof 🖳 Release Notes - Missi 🗿 CIEV Logon - Microso	🔇 💽 🕵 🔍 👷 🔒 3:13 PM

There are two reports that indicate activity of patient appointment records being sent to the AAC. The first indicates activity at the VistA site's local Vitria IE (Remote Outgoing Batch Tallies). The report presents the Site ID, Name, Most Recent Date, and Batch Count.

CIEV PatAva Remote Batch Tally - Microsoft Internet Explorer provided by Roadrunner	- 7 🛛
File Edit View Favorites Tools Help	
📀 Back 🔻 🕥 - 💌 😰 🏠 🔎 Search 🤺 Favorites 🚳 Media 🤣 🔗 - 🌺 🚍 - 🛄 鑬 🖓	
Address 🕘 http://vhaaacviev4:8080/ciev/hbase?mode=parbtally	🖌 🄁 Go 🛛 Links 🎽
Vitria IE Monitoring Reports	~
Version: 1.0.4 Mode:parbtally <u>Main Menu</u> <u>Projects</u> <u>Patient Availability</u>	
Patient Availability : Remote Outgoing Batch Tallies	
Total # of Sites: 1 ** most recent batch	
Site Id Name Most Recent Date Batch Count	
2 **	
Total # of batches: 2	
Done	Second Intranet
🛃 oute Ty Start 🔰 2 0 0 0 0 0 S 0 10 EWL Items - Microsof 😨 Release Notes - Missi 🗿 CIEV PatAva Remote	 (回戦の反影を計算) (回戦の反影を) (回戦の気の反影を) (回戦の気の気の気の気の気の気の気の気の気の気の気の気の気の気の気の気の気の気の気

The second report indicates the files transferred (FTP) to the mainframe at the AAC (File Uploads to MVS). This report demonstrates the Site(s) ID, Name, and Batch Count that were included in the file transfer. It should be noted that the batch count indicated in a file sent to the AAC may not be the total batch count for that site.

CIEV PatAva FTP - Microsoft Inter	net Explorer provided by Roa	drunner				B
File Edit View Favorites Tools He	٩Þ					
🕒 Back 🝷 🐑 👻 🛃 🏠	🔎 Search travorites 😣	Media 🧭 🔗 头	🖻 • 🔜 🎎 🦓			
ddress 🧃 http://10.6.209.14:8084/ciev/hl	pase?mode=paftp				💙 🄁 Go	Links '
	Vitria IE Monitoring Re	eports				1
Version: 1.0.4 Mode:paftp		Main Menu Projects	Patient Availability			
Patient Availability : File Uplo	ads to MVS					
Total number of sites: 4 Total number of batches: 12	:0					
	1					
	J					
Done					Internet	
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y start 🔰 🖄 🙆 🧐 🥯	Inbox - Microsoft Out	🛛 🖂 RE: sample report da	Release Notes - Trou	🙆 CIEV PatAva FTP - Mi		8:40 AM

Examination of all files transferred will need to be performed and manually adding the batch counts for all files to determine if the site's total batch count matches the count on the FORUM server.

- If the reports on the FORUM server indicate the site did not generate batches EVS will need to contact the site to find the responsible person who can determine or explain why the program did not run.
- If the reports on the FORUM server indicate the site did generate batches but did not transmit and the Vitria IE reports do not indicate the site's activity, then EVS will need to contact M&IS for assistance..
- If the reports on the FORUM server and the Vitria IE reports indicate the site did transmit, then EVS will need to contact the AAC for assistance.

NOTE: The primary trouble shooting to determine the problem in communications should be done by following directions in the Trouble Shooting chapter.

VistA Communication Problems

VHA National Help Desk:

REDACTED

REDACTED

Figure 2

The above message, Figure 2 shows that the communication with Vitria was not established at all and none of generated batches were transmitted.