Veterans Health Administration

Office of Information & Technology (OI&T)

VistA Maintenance Team

Patient Appointment Information Transmission (PAIT)

Technical Manual

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Introduction

Document Purpose and Intended Audience

The VistA Patient Appointment Information Transmission (PAIT) software collects and sends appointment scheduling data to the Veterans Health Administration Support Service Center (VSSC) at the Information Technology Center (AITC) in Austin, TX.

The intended audience for this manual includes technical support and maintenance staff in IRM and national support, and developers providing support and maintenance. This manual contains information about PAIT architecture, PAIT components in VistA, FORUM and AITC, HL7 logical link configuration and background job scheduling in VistA, recovering after failed transmissions, troubleshooting certain data rejection errors, the role of PAIT software on the Forum Server, PAIT transmission tracking reports available locally as well as on FORUM and the intranet, automatically generated error bulletins, and PAIT HL7 message specifications.

Additional References

The PAIT User Manual and the PAIT Release Notes provide additional information. The User Manual describes PAIT business rules and VistA options.

Section 1   Architecture, Implementation and Maintenance

1.1   PAIT Architecture

Figure 1-1 depicts an overview of the PAIT process.

Patient Appointment Information Transmission (PAIT)
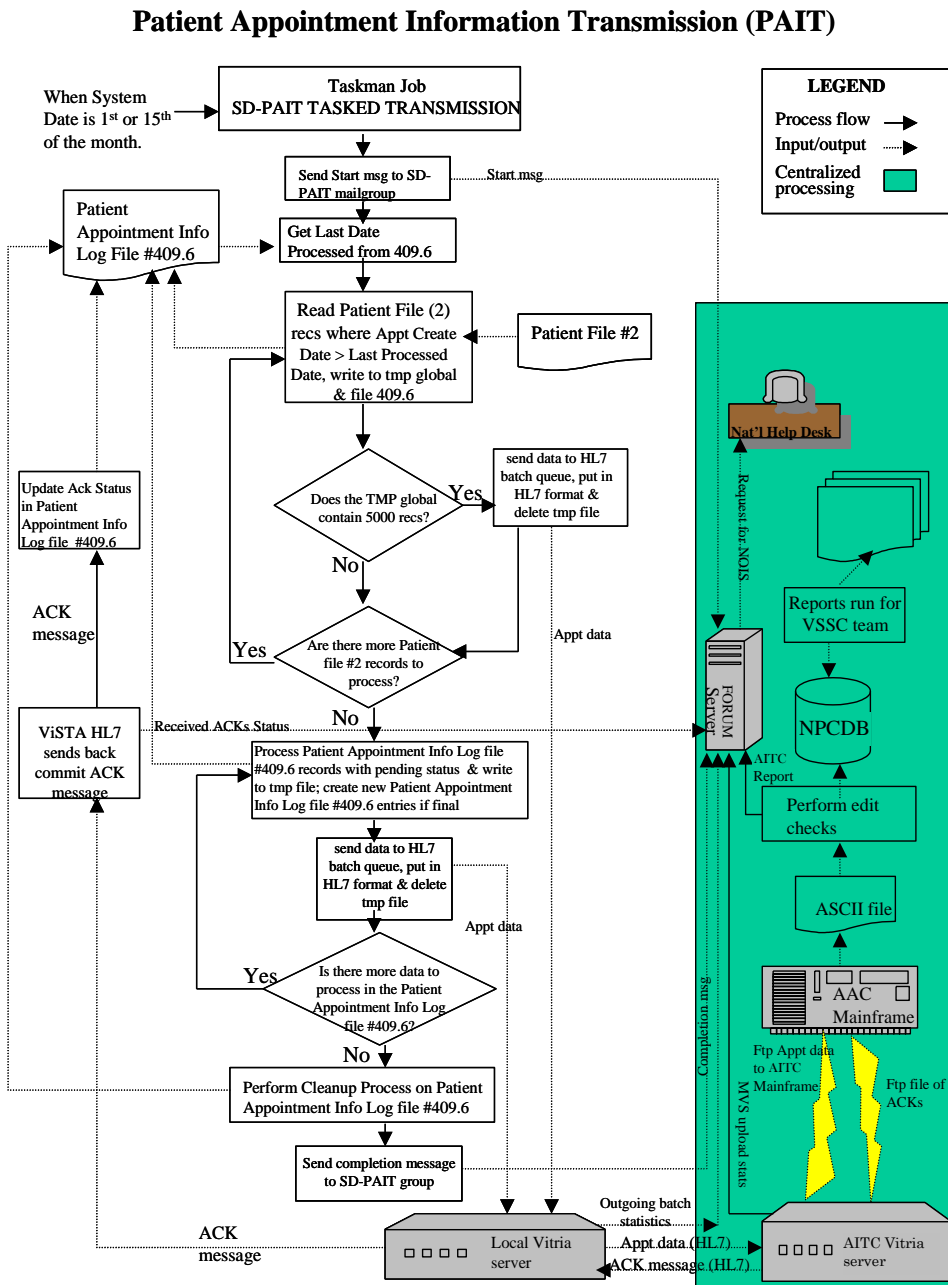
Figure 1-1: Patient Appointment Information Transmission Process

1.2 Automated Tracking of PAIT HL7 Message Batches

Several features have been designed into the PAIT to ensure that data collected and transmitted are complete and thorough, reach AITC, and are acknowledged.

Each PAIT transmission first scans appointment data in the Patient file (#2) based on the date created, starting from the last previously scanned creation date of the prior transmission through the most recent creation date by traversing the "ASADM" cross-reference of the Patient file. The last previously scanned creation date is stored in the Last Scanned Date (field #1.2) of the Patient Appointment Info Log (file #409.6). Appointment statuses of previously transmitted data are also checked for final status values. Both final and pending appointments are selected for transmission (see SCH.24 Filler Status in the HL7 SIU Event Mapping Table). Next, the Patient Appointment Info Log is scanned for appointments previously sent as Pending entries so that they can be sent again when Final. After an appointment is Final, accepted, and acknowledged, its entry in the Patient Appointment Info Log will be purged.

PAIT Automated Verification will track each site's data transmission totals through the site's local Vitria Interface Engine (VIE) to the centralized AITC Interface Engine, then through File Transfer Protocol (FTP) to the AITC mainframe. Totals from each transmission segment are passed to a Server option on Forum and stored. Tasked background jobs on Forum will compare totals from each stage of the transmission and generate MailMan alerts to the VA Service Desk (VASD) when a discrepancy or transmission failure is detected.

Data tracking is performed transparently on the Forum Server to provide a variety of reports which assist in bi-monthly transmissions and provide information to analyze transmissions from all VistA sites.

Acknowledgements are processed in enhanced mode, with full two-phased commit. A commit acknowledgement is requested and processed automatically by the VistA HL7 application.

1.3 Configuring PAIT

The SD-PAIT logical link must be configured on each facility's VistA system with an IP address and a port number to direct PAIT HL7 messages to a designated local VistA Interface Engine. The first step is to use the HL7 menu to edit the SD-PAIT logical link:

```
    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
```

Figure 2-1: HL7 Logical Link

```
                        HL7 LOGICAL LINK
--------------------------------------------------------------------
                    ────TCP LOWER LEVEL PARAMETERS────
                    SD-PAIT

   TCP/IP SERVICE TYPE: CLIENT (SENDER)
         TCP/IP ADDRESS:
           TCP/IP PORT:


   ACK TIMEOUT:                    RE-TRANSMISION ATTEMPTS: 3
   READ TIMEOUT:                   EXCEED RE-TRANSMIT ACTION:
    BLOCK SIZE:                              SAY HELO: NO

STARTUP NODE:                               PERSISTENT:
   RETENTION:                      UNI-DIRECTIONAL WAIT:
```

Figure 2-2: TCP Lower Level Parameters

Enter the TCP/IP ADDRESS of your VistA IE I.P. Address for the IE.

Enter the TCP/IP PORT – **9270**

```
                            HL7 LOGICAL LINK
----------------------------------------------------------------------
                        TCP LOWER LEVEL PARAMETERS
                        SD-PAIT

   TCP/IP SERVICE TYPE: CLIENT (SENDER)
         TCP/IP ADDRESS: Your Vitria Interface IP
            TCP/IP PORT: 9270


    ACK TIMEOUT:                      RE-TRANSMISION ATTEMPTS: 3
    READ TIMEOUT:                     EXCEED RE-TRANSMIT ACTION:
     BLOCK SIZE:                                   SAY HELO: NO

STARTUP NODE:                                     PERSISTENT:
   RETENTION:                         UNI-DIRECTIONAL WAIT:
```
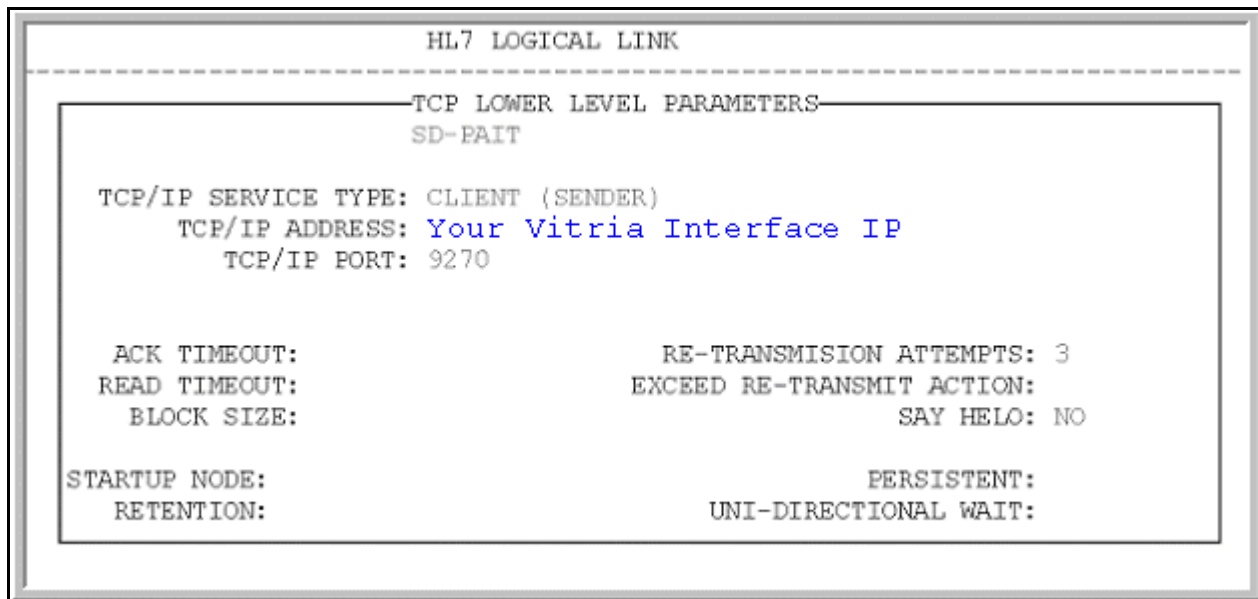
Figure 2-3: Vitria Interface IP Address

1.4 Scheduling the PAIT transmission task

Use the Task Manager option Schedule/Unschedule Options [XUTM SCHEDULE] to schedule
the Taskman PAIT Transmission [SD-PAIT TASKED TRANSMISSION] option to run on the
1st and 15th of each month. This establishes the bi-monthly transmission schedule.

If a facility's PAIT transmission job does not start on the 1st or 15th, the VASD will be notified
automatically and a Remedy ticket will be opened for troubleshooting. The PAIT job can be
restarted up to four days after the 1st or 15th. If PAIT does not run within that window the unsent
data will be sent in the next regularly scheduled transmission task. The four-day window
restriction is necessary because of AITC processing requirements.

```
                      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 AT
                                                       WHAT TIME FIELD
 QUEUED TO RUN ON VOLUME SET:
                                                       1st scheduled run
      RESCHEDULING FREQUENCY: 1M(1,15)                 date should be
                                                       4/01/2004.  Time is
            TASK PARAMETERS:                           site selectable

            SPECIAL QUEUEING:

_____
Only enter a DEVICE if the job needs an output device.
```

Figure 2-4: Edit Option Schedule

1.5   Enable the SD- PAIT Logical Link

Verify that 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

        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!
```

1.6   SD- PAIT Completion Status

The subsections below describe in detail the completion status processes and messages.

1.6.1   Completion Bulletin

A MailMan completion bulletin addressed to the local SD-PAIT mail group will confirm
completion of the tasked job. The local job completion message is generated with an appropriate
subject. For example:

```
656 - PAIT BACKGROUND JOB, where 656 = station number.
```

The bulletin generated at the end of the transmission task in a VistA facility shows when the
PAIT job started, the last scanned appointment creation date, appointment and batch statistics,
and includes descriptive text such as a warning if a problem is detected:

```
Subj: 656 - PAIT BACKGROUND JOB  [#5277039] 04/16/04@16:06 13 lines
From: POSTMASTER  In 'IN' basket.  Page 1  *New*
-----------------------------------------------------------------
The PAIT job has completed - TASK #: 8949063 Log #: 12 on 4/16/04@16:05
Started: 4/16/04                      Last Scanned: 4/15/04
Pending appointments:       33411
Final appointments:         63586
                        ----------
Total appointments:         96997   Number of batches: 20

Fac Log  Bch Appt # Date finished  IP Address    Gen    Sent   Com R   Com P  Status
----------------------------------------------------------------------------------
656| 12| 20|96997|4/16/04@16:05|10.104.10.89|      379|   378|   378 |    378|
Inactive

WARNING: 1 out of 20 batches still have to be transmitted, please verify with the HL7
System Monitor.
```

This bulletin will also be sent to SD-PAIT-SERVER@FORUM.VA.GOV and to the VASD if
the number of generated vs. sent batches indicates a communication problem between a site and
its local IE.

Note: Generated (Gen) and Sent values should be equal when the transmission is complete.

1.6.2   Descriptive Text in Completion Bulletins

Descriptive text is printed with the various completion messages to better inform the user of
transmission segment status and determine the proper Remedy ticket module if a problem occurs.
Below are the possible lines of descriptive text that are added to the MailMan completion
message as applicable:

- SUCCESS: Transmission completed.

- WARNING: TASK STOPPED BY USER, NEEDS TO BE RESTARTED. Initiate a Remedy ticket
  TO FOLLOW UP.

- WARNING: 10 out of 15 still have to be transmitted, please verify with the HL7
  System Monitor.

- SD-PAIT Logical Link has to be started, initiate Remedy ticket for Scheduling
  PAIT.

- Initiate a Remedy ticket for Interface Engine - communication problem.

- WARNING!!!: Transmission of run#: 12 has been repaired, you may restart.

As stated in the completion bulletin, Remedy tickets will be generated and addressed to proper services if PAIT is not successful.

1.7   SD- PAIT Completion Status

Application acknowledgements from the receiving AITC application may generate two types of messages: whole batch accept and whole batch accept with rejections. The whole batch reject can only be performed manually. (See the PAIT User Guide for information about the option that can be used to reject a whole batch.)

1.7.1   Whole Batch Accept

The batch, with all of its individual appointment messages, is accepted by the receiving AITC application. If all messages in a batch are accepted the acknowledgement code returned will be AA. Upon receipt of the acknowledgement message, the sending VistA application executes program logic to update appointment entries in the Patient Appointment Info Log (file #409.6) associated with the batch message. Internal cross-references are examined and those entries in which Retention Flag (field #4) is not set to "Y" are purged from the file.

1.7.2   Whole Batch Accept with Rejections

The batch message is accepted, but some individual messages (appointments) are rejected by the receiving AITC application. If any message in a batch is rejected, the acknowledgement code for the batch will be AE. Upon receipt of this acknowledgement message, the sending VistA application executes program logic to update entries in the Patient Appointment Info Log (file # 409.6), associated with the batch message.

Messages rejected individually may have the Error Message (field #7) updated with a pointer to one of rejection codes in Table 5-1.

1.7.3   Whole Batch Reject

The batch message and all included messages (appointments) may be rejected by manual rejection, see option Manual Batch Reject [SD-PAIT MANUAL BATCH REJECT], particularly when an expected application acknowledgement has not been received. When a batch is rejected manually, PAIT executes program logic to update entries in the Patient Appointment Info Log (file #409.6) associated with the batch message.

The Error Message (field #7) is updated with rejection code "R." If the Retention Flag (field #4), is set to "Y" (YES - to be sent when 'Final') entry updates are complete. These records will be retransmitted, even if they are final, because the Error Message (field #7) is populated.

If the Retention Flag is set to "N" (NO, was sent as 'Final') then the Retention Flag is changed to "Y," making that entry available for resending. No entries in the rejected batch are deleted from the Patient Appointment Info Log.

1.8   HL7 Batch Creation Process

Up to 5000 appointments are collected in a temporary global (^TMP) which is used to create an HL7 batch transmission. After the batch data has been moved to the HL7 processing queue, the temporary global data is deleted and the process of generating data for transmission continues until all required data is generated and transmitted. This design allows for an immediate transmission of partial data while the generation process is still in progress and prevents the temporary global from becoming too large. The process is repeated until all required data is generated and transmitted. Monitoring the transmission of HL7 batches on the SD-PAIT link can be done in the System Link Monitor under the HL7 Main Menu.

The Final or Pending status of an appointment is based on the appointment's Event Reason and Appointment Type as defined for HL7 SIU messages. Please note that all Check-Out (CO) appointments are considered Final, including those that are still Action-Required (AR). That decision was made assuming that the appointment is Final when the 'check-out' process is initiated, meaning the patient is present for the appointment. The Event Reason and Appointment Type, as well as Pending versus Final states, are represented by SCH.25 Filler Status and mapped in Table 1-1 SIU Event Mapping.

Identifiers in Table 1-1 were determined to reflect the existing computed appointment status in the VistA application as well as newly defined identifiers to allow tracing the continuity of canceled and rescheduled appointments and selecting proper appointments from the scheduled "non-count" clinic group. Combinations of Event Reason and Appointment Type that fall outside of Table 1-1 will be rejected by AITC.

All updated records should be Final and their previous base records, if any, were Pending. With each transmission Pending and Final records are sent. Some appointments are in a Final state when they are sent for the first time, and others have been transmitted previously in a Pending state. (See the Appointment Selection and Transmission section of the User Manual for a more detailed explanation.) All new Pending records are generated starting from the last creation date of the previous transmission.

Table 1-1 expresses all of the appointment attributes required for Pending and Final appointment states. Event reason and appointment type are interpreted as the primary and alternate identifiers.

Table 1-1: SIU Event Mapping

SIU Event	SCH.25 Filler Status	SCH.6 Event Reason	SCH.8 Appt Type
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)	

1.9 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 AITC application may be either whole batch accept or whole batch accept with rejections. Rejection of a whole batch can only be done manually. (See the PAIT User Manual for additional information.) Application acknowledgements are sent to both the sending site's SD-PAIT Mail Group and to S.SD-PAIT-SERVER@FORUM.VA.GOV.

1.10 External Relationships

The external relationships that apply to the Forum Server are explained in detail below.

1.10.1 Automated Verification on the Forum Server

The statuses of batches that are generated, transmitted, and received must be tracked to ensure that each site has completed the bi-monthly transmission. Manual checking would be an extensive and time-consuming task. An automated process on the Forum Server alerts the VASD when any stage of the transmission process fails. Tasked background jobs scheduled to run on the Forum Server incorporate elements from the VistA Interface Engine (VIE) and AITC. VIE is expected to report the number of batches received per site, and AITC is expected to report the number of batches received and a total of all appointments received. Discrepancies with the VistA completion messages generate warning messages to the VASD.

As each site starts and completes a designated task, a status message is sent to the Forum Server. Six background tasks related to the PAIT status, and one to detect over 50 rejections at a single site, are initiated at scheduled intervals on Forum to determine the status of PAIT at each site:

```
1. SD-PAIT TL TASKED S    SD-PAIT TASKED STARTUP FAILED
2. SD-PAIT TL TASKED O    SD-PAIT TASKED OUTGOING IE COMPARE
3. SD-PAIT TL TASKED B    SD-PAIT TASKED BACKGROUND JOB NOT COMPLETE
4. SD-PAIT TL TASKED NA   SD-PAIT TASKED NO ACKS
5. SD-PAIT TL TASKED A    SD-PAIT TASKED ACKS NOT COMPLETE
6. SD-PAIT TL TASKED U    SD-PAIT TASKED MVS UPLOAD COMPARE
7. SD-PAIT TL TOTAL RJ    SD-PAIT TL TASKED REJECTIONS
```

1.10.2 Outgoing and Upload Statistics Sent Via MailMan

A PAIT component on the Forum Server accepts and processes PAIT completion messages sent from VA sites, as well as messages from the VIE and AITC. Outgoing batch and Multiple Virtual Storage (MVS) upload reports and the acknowledgements reports from the IE Webpage

have been merged into mail bulletins and are transmitted to the Forum Server. Messages are then processed and used to determine if the transmission has completed for each site. If any site transmission is not complete, a bulletin is generated on the Forum Server and sent to the VASD identifying the site and describing the problem. Based on those bulletins, the VASD creates Remedy tickets.

Table 1-2: Task and Schedule Description

Task	Schedule 1	Schedule 2	Description
PAIT Not Started	07:00 AM 2nd day of month	07:00 AM 16th day of month	Generates an e-mail bulletin to VASD listing sites that did not start the scheduled PAIT.
Outgoing IE	10:00 AM 3rd day of month	10:00am 17th day of month	Generates an e-mail bulletin to VASD listing sites where the number of outgoing batches from VistA does not match the number of outgoing batches from the local interface engine – see the Remote Outgoing Batch Tallies report in Vitria IE report.
PAIT Not Completed	11:00 PM 2nd day of month	11:00 PM 16th day of month	Generates an e-mail bulletin to VASD listing sites that have not completed PAIT.
NO Acks	01:00 AM 7th day of month	01:00 AM 22nd day of month	Generates an e-mail bulletin to VASD listing sites that have not received any HL7 acknowledgement messages.
ACKs not completed	10:00 AM 7th day of month	10:00 AM 22nd day of month	Generates an e-mail bulletin to VASD listing sites that have not received all HL7 acknowledgement messages.
Uploaded MVS	01:00 PM 4th day of month	01:00 PM 18th day of month	Generates an e-mail bulletin to VASD listing sites where the number of outgoing batches from VistA, local interface engine, and AITC ftp to MVS mainframe do not match, see the File Uploads to MVS Vitria IE report.
Tasked Rejections	11:45 PM 8th day of Month	11:45 PM 23rd day of Month	Generates an e-mail bulletin to the VASD listing sites whose MVS rejections are greater than 50.
Background Purge	04:00 PM 14th day of Month	04:00 PM 28th day of Month	This background job will purge all entries in the PAIT TRANSMISSION LOG file (#409.8) before the 15th and 28th of each month.

1.11 PAIT Tracking Bulletins

The following sections describe and illustrate the various PAIT tracking bulletins that are sent from sites to Forum and from Forum to the VASD to report problems.

1.11.1   "Job Started" Bulletin on the Forum Server

At the beginning of each site's transmission, the PAIT task sends a MailMan bulletin to the the local SD-PAIT Mail Group and the Forum Server to confirm that the bi-monthly data collection

process has begun. This bulletin gives the status of the SD-PAIT logical link with possible reasons for any communications error. The following is an example of the Job Started bulletin:

```
Subj: 500 - PAIT START JOB [#1955884] 09/21/04@12:11 3 lines
From: POSTMASTER In 'IN' basket.   Page 1
-----------------------------------------------------------------------------

The PAIT job has started - TASK #: 2717310
Site   Started       SD-PAIT status    Task #
500 |3040921.121119 |Enabled          |2717310
```

If the Forum Server does not receive a start bulletin from a site by the morning after the expected job start date, it sends the following bulletin to the VASD:

```
Subj: STARTUP FAILED [#50241871] 06/02/09@07:00 5 lines
From: POSTMASTER 1 of 1 response read.  In 'PAIT' basket.   Page 1
-----------------------------------------------------------------------------

The following site(s) have failed or have not started the bi-monthly PAIT.
Please initiate a Remedy ticket for each site
referencing the Scheduling - PAIT
629 SE Louisiana Veterans HCS
```

If neither the start bulletin nor any other communication is received on Forum from a site, the following bulletin is sent to the VASD:

```
Subj: STARTUP FAILED [#51099068] 11/16/09@11:07 5 lines
From: POSTMASTER 1 of 1 response read.  In 'PAIT' basket.   Page 1
-----------------------------------------------------------------------------

The following site(s) did not start the bi-monthly PAIT.
Please initiate a Remedy ticket for each site
referencing the Scheduling - PAIT
675 ORLANDO VAMC has not started at all.
```

Note: If the PAIT job was scheduled by a user who has been terminated, the task will run but MailMan will fail to generate the completion bulletin. This may be determined by verifying that the completion bulletin was received. The PAIT scheduled task should be deleted and a new one created by an active user.

1.11.2 "PAIT Not Completed" Bulletin

The following bulletin is sent to VASD when the completion bulletin has not been received from one or more sites because the transmission was interrupted by a system problem or an application error. If an application error occurred it can be found by checking the site's error trap on the date when PAIT was interrupted. The cause of the error must be found and addressed. Then the SD-PAIT Last Run Repair [SD-PAIT REPAIR] option must be executed by the site to finalize the interrupted transmission. A new PAIT can be started after the repair is finished.

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]
Sent: Monday, September 20, 2004 2:02 PM
To:
 Subj: BACKGROUND JOB NOT COMPLETE

The following site(s) have not completed the bi-monthly PAIT background job.
Please initiate a REMEDY TICKET for each site referencing the Scheduling PAIT:
```

```
541 CLEVELAND VAMC
612 NORTHERN CALIFORNIA HCS
```

1.11.3   "No Acks" Bulletin

Typically, this would result from a problem at AITC or the Interface Engine. Acknowledgements sent by AITC and transmitted to the site by the Interface Engine can be verified on two VIE intranet reports:

- Acks from MVS
- Incoming Ack Tallies

The following is a sample bulletin that would be sent from Forum to the VASD:

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]=20
Sent: Sunday, June 07, 2009 1:00 AM
To: G.SD-PAIT@FORUM.VA.GOV; VA Service Desk
Subject: NO ACKNOWLEDGEMENTS

The following site(s) have not received ANY acknowledgement
messages for the bi-monthly PAIT.  Please initiate a Remedy
ticket for each site referencing the Interface Engine Module:

675 ORLANDO VAMC

The following site(s) have not received ANY acknowledgement
messages for the bi-monthly PAIT. Please initiate a REMEDY TICKET for
each site referencing the Interface Engine Module:

528 UPSTATE NEW YORK HCS
598 CENTRAL ARKANSAS HCS
```

1.11.4   "ACKs Not Completed" Bulletin

This would result from a problem at AITC or the Interface Engine. Below is a sample bulletin that would be sent from Forum to the VASD:

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]
Sent: Monday, September 20, 2004 2:24 PM
To:
Subject: ACKNOWLEDGEMENTS NOT COMPLETE

The following site(s) have not received all acknowledgements for
the bi-monthly PAIT. Please initiate a REMEDY TICKET for each site
referencing the Interface Engine Module:

541 CLEVELAND VAMC
612 NORTHERN CALIFORNIA HCS
657 ST. LOUIS MO VAMC-JC DIVISION
```

1.11.5 "Outgoing IE" Bulletin

The Forum Server compares the number of batches from VistA to the number sent from VIE. The following is a sample Outgoing IE Bulletin notifying VASD to open a Remedy ticket because one or more PAIT HL7 message batches cannot be accounted for:

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]
Sent: Friday, September 17, 2004 9:16 AM
To:
Subject: OUTGOING IE COMPARE

The following sites batch message counts comparing the number sent
from VistA and the number sent from local Interface Engine do not match.
Please initiate a REMEDY TICKET for each site listed referencing the Interface
Engine Module:

Site #    VISTA SENT    OUTGOING IE SENT
   528            25                  26
   557             4                   8
   589            22                  23
   603             7                   6
   629             8                   9
   679             3                   4
```

This comparison above shows discrepancies between batch numbers generated by a VistA site and batch numbers received by local VIE. If the number of batches in the "OUTGOING IE SENT" column is greater than the "VISTA SENT" column, batch(es) may have been duplicated. If the reverse is true, batch(es) from the site may not have been received by VIE. For example, the counts for station 528 and 603 in the above example can be interpreted as follows:

Station 528: One of the batches might be a duplicate. Use the Outgoing batch tallies report to verify this.

Station 603: It appears that one of the batches generated by the site has not been received by VIE.

All batch count comparison bulletins in the sections below can be interpreted similarly.

1.11.6 "MVS Upload Compare" Bulletin

PAIT software on Forum tracks and compares the number of batches sent from each site to the number of batches uploaded to the AITC MVS system. Again, it is common to see a greater count uploaded, which may indicate duplication.

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]
Sent: Wednesday, September 22, 2004 1:16 PM
To:
Subject: MVS UPLOAD COMPARE

The following sites batch message counts comparing the number sent
from VistA and the number uploaded to MVS do not match. Please
initiate a REMEDY TICKET for each site listed referencing the Interface
Engine Module:

Site #    VISTA SENT    MVS UPLOADED
```

```
528            25             26
540             2              4
557             4              8
589            22             23
603             7              8
614             7              8
629             8              9
631             3              4
679             3             15
```

1.11.7 "Rejection Records Greater than 50" Bulletin

The PAIT software on Forum tracks total appointments rejected for each site and sends bulletins to VASD when a site has more than 50 rejections. Example:

```
From: POSTMASTER@FORUM.VA.GOV [mailto:POSTMASTER@FORUM.VA.GOV]
Sent: Wednesday, September 22, 2008 1:16 PM
To:
Subject: REJECTION RECORDS GREATER THAN 50
The following sites have total PAIT rejections of greater than 50 records.
Please initiate a Remedy ticket for each site referencing the Scheduling PAIT.

SITE #            SITE NAME        TOTAL REJECTIONS
======            =========        ================
541               CLEVELAND VAMC        58
```

Each site should review the Rejected Transmissions [SD-PAIT REJECTED] report after each transmission is acknowledged to find which appointments were rejected and to address the problem. Some error types can be addressed by Scheduling staff without IRM assistance. See the PAIT User Manual for additional information.

1.9.8 Troubleshooting Rejection Error Code 350

If Scheduling staff at the site request IRM assistance with finding and correcting appointments rejected with Error Code 350, "HL7 date is not in proper format or is missing", programmer access and authority may be needed. Refer to the User Guide chapter on Rejection Codes and Corrections and the following examples illustrating how to find bogus dates in appointment data.

(1) The Rejected Transmissions [SD-PAIT REJECTED] report listed error 350 for a patient's 12/1/04 appointment. The patient's DFN is 105723. The bogus date was found in the DESIRED DATE field, which is stored in the Appointment, multiple ("S" node) of the Patient file in the first piece of node 1:

```
^DPT(105723,"S",3041201.133,0) = 5142^^^^^^3^^^^^^^^^^9^^^
3040315^^^^^0^O^0

^DPT(105723,"S",3041201.133,1) = 1200104^1    <= invalid date value

^DPT(105723,"S",3041201.133,1) = 3041201^1    <= corrected
```

(2) The Rejected Transmissions [SD-PAIT REJECTED] report listed error 350 for a patient's 10/11/04 appointment, but the data does not have any bogus dates. The patient's DFN is 41221.

```
^DPT(41221,"S",3041011.1018,0) = 1072^C^^^^^3^^^^^34131
```

```
        ^^3031014.0845^11^9^^3413      ← see cancellation date/time
1^3031014^^^^^0^O^0
^DPT(41221,"S",3041011.1018,1) = 3041011^1          no bogus dates found on
^DPT(41221,"S",3041011.1018,"R") = error            this canceled appointment


 from the Hospital Location file (#44)
^SC(1072,"S",3041011.1018,0) = 3041011.1018
^SC(1072,"S",3041011.1018,1,0) = ^44.003PA^^
```

Since there were no bogus dates on the original appointment, check the related appointment that was made on the original appointment's cancellation date. In the example above, the cancellation date/time was 3031014.0845 (10/14/03). Since this is the same date that another appointment was created for the patient in the same clinic, PAIT sees the new appointment as a continuation of the cancelled appointment.

```
        Global ^DPT(41221,"S",1011103.1018
        ^DPT(41221,"S",1011103.1018,0) = 1072^^^^^^3^^^^^^^^^9^^^3031014^^^^^0^^0    ← creation
                                                                                      date
        ^DPT(41221,"S",1011103.1018,1) = 1011103^1
```

The date in the related appointment's internal subscript (1011103.1018) translates to 11/03/1801, which is a bogus date. This bogus date is the cause of error 350 in this example.

The next example shows both a bogus internal date subscript in the Patient file and the same bogus date in the Hospital Location file.

```
        ^DPT(5385215543,"S",1120303.13,0) = 4532^C^^^^^3^^^^^40347^^3031105.1110^11^9^^40347^
        3031105^^^^^0^^0
        ^DPT(5385215543,"S",1120303.13,1) = 3031112^1
        ^DPT(5385215543,"S",1120303.13,"R") = error

        from Hospital Location File #44
        ^SC(4532,"S",1120303.13,0) = 1120303.13
        ^SC(4532,"S",1120303.13,1,0) = ^44.003PA^^
```

Section 2   SD-PAIT Forum Server Reports

2.1   PAIT Transmission Reports

The following menu can be seen in the Forum Server. Access to the PAIT Transmission Reports menu is required to view these reports:

```
Select FORUM Primary Menu Option: PAIT Transmission Reports

Select PAIT Transmission Reports Option: ?

        1       Completed Background Job Report
        2       All Acks Received Report
        3       Missing Sites Report
        4       Transmitted Sites Report
        5       Ack Status Report
        6       Site Message History
        7       PAIT Summary Report
```

2.1.1   Completed Background Job Report

If all sites complete PAIT, the count at the bottom of this report should be at least the total number of sites from which a transmission is expected. If for some reason a site started PAIT twice, then the count is increased to reflect additional transmissions. In the example below, site 575 is listed twice, increasing the count from 129 to 130.

Information on this report is generated from the PAIT completion bulletins.

```
Select PAIT Transmission Reports Option: 1 Completed Background Job Report
START WITH DATE/TIME: Nov 15, 2009//   (NOV 15, 2009)
GO TO DATE/TIME: LAST//
DEVICE: 0;80;9999999  UCX DEVICE

     Sites - Completed Background Job           NOV 24,2009  13:24    PAGE 1
SITE                    # OF            # OF                STARTED     LAST SCAN
NUMBER     COMPLETED    BATCHES         APPOINTMENTS        DATE        DATE
-----------------------------------------------------------------------------------------------

517        NOV 15, 2009  00:25  4       16702               NOV 15,2009  NOV 14,2009
529        NOV 15,2009  01:14  3        10875               NOV 15,2009  NOV 13,2009
637        NOV 15,2009  01:29  6        26334               NOV 15,2009  NOV 14,2009
610        NOV 15,2009  01:29  5        24845               NOV 15,2009  NOV 14,2009
518        NOV 15,2009  01:33  3        11825               NOV 15,2009  NOV 14,2009
515        NOV 15,2009  01:58  7        30227               NOV 15,2009  NOV 14,2009
548        NOV 15,2009  01:59  12        57011              NOV 15,2009  NOV 14,2009
623        NOV 15,2009  01:19  5        23748               NOV 15,2009  NOV 14,2009
630        NOV 15,2009  02:19  11       52306               NOV 15,2009  NOV 14,2009
666        NOV 15,2009  00:21  2        7051                NOV 15,2009  NOV 14,2009
642        NOV 15,2009  02:28  9        44632               NOV 15,2009  NOV 14,2009
629        NOV 15,2009  01:30  7        30485               NOV 15,2009  NOV 13,2009
659        NOV 15,2009  02:41  12       55373               NOV 15,2009  NOV 14,2009
539        NOV 15,2009  02:53  8        35839               NOV 15,2009  NOV 14,2009
541        NOV 15,2009  02:53  20       97145               NOV 15,2009  NOV 14,2009
512        NOV 15,2009  02:54  9        43375               NOV 15,2009  NOV 14,2009
506        NOV 15,2009  02:59  8        35522               NOV 15,2009  NOV 14,2009
564        NOV 15,2009  02:07  11       54956               NOV 15,2009  NOV 14,2009
```

546	NOV 15,2009	03:24	14	65766	NOV 15,2009	NOV 14,2009
509	NOV 15,2009	03:29	6	27474	NOV 15,2009	NOV 14,2009
608	NOV 15,2009	03:32	4	17990	NOV 15,2009	NOV 14,2009
689	NOV 15,2009	03:34	10	47627	NOV 15,2009	NOV 14,2009
658	NOV 15,2009	03:43	7	34859	NOV 15,2009	NOV 14,2009
556	NOV 15,2009	02:45	6	28382	NOV 15,2009	NOV 14,2009
557	NOV 15,2009	04:07	4	19217	NOV 15,2009	NOV 14,2009
553	NOV 15,2009	04:11	7	34412	NOV 15,2009	NOV 14,2009
542	NOV 15,2009	04:21	3	11896	NOV 15,2009	NOV 14,2009
626	NOV 15,2009	03:21	14	66816	NOV 15,2009	NOV 14,2009
562	NOV 15,2009	04:26	5	22421	NOV 15,2009	NOV 14,2009
531	NOV 15,2009	02:27	4	18505	NOV 15,2009	NOV 14,2009
552	NOV 15,2009	04:34	6	28769	NOV 15,2009	NOV 14,2009
402	NOV 15,2009	04:37	7	31534	NOV 15,2009	NOV 14,2009
504	NOV 15,2009	03:43	6	25049	NOV 15,2009	NOV 14,2009
668	NOV 15,2009	01:44	5	20153	NOV 15,2009	NOV 14,2009
603	NOV 15,2009	04:46	8	38493	NOV 15,2009	NOV 14,2009
521	NOV 15,2009	03:54	10	45246	NOV 15,2009	NOV 14,2009
583	NOV 15,2009	05:03	14	66695	NOV 15,2009	NOV 14,2009
613	NOV 15,2009	05:06	8	37082	NOV 15,2009	NOV 14,2009
578	NOV 15,2009	04:08	11	53210	NOV 15,2009	NOV 14,2009
646	NOV 15,2009	05:08	10	45822	NOV 15,2009	NOV 14,2009
679	NOV 15,2009	04:10	3	11456	NOV 15,2009	NOV 14,2009
672	NOV 15,2009	06:08	20	96451	NOV 15,2009	NOV 14,2009
652	NOV 15,2009	05:17	10	48938	NOV 15,2009	NOV 14,2009
585	NOV 15,2009	04:19	4	16095	NOV 15,2009	NOV 14,2009
503	NOV 15,2009	05:19	4	17867	NOV 15,2009	NOV 14,2009
573	NOV 15,2009	05:22	21	103169	NOV 15,2009	NOV 14,2009
561	NOV 15,2009	05:26	11	52359	NOV 15,2009	NOV 14,2009
657	NOV 15,2009	04:25	19	92538	NOV 15,2009	NOV 14,2009
502	NOV 15,2009	04:28	5	21931	NOV 15,2009	NOV 14,2009
663	NOV 15,2009	02:33	13	60648	NOV 15,2009	NOV 14,2009
436	NOV 15,2009	03:38	5	23870	NOV 15,2009	NOV 14,2009
534	NOV 15,2009	05:38	8	38071	NOV 15,2009	NOV 14,2009
693	NOV 15,2009	05:49	9	44078	NOV 15,2009	NOV 14,2009
528	NOV 15,2009	05:49	28	138874	NOV 15,2009	NOV 14,2009
678	NOV 15,2009	03:56	10	46186	NOV 15,2009	NOV 14,2009
580	NOV 15,2009	04:56	21	101051	NOV 15,2009	NOV 14,2009
575	NOV 15,2009	04:14	3	13431	NOV 15,2009	NOV 14,2009
600	NOV 15,2009	03:15	9	44893	NOV 15,2009	NOV 14,2009
648	NOV 15,2009	03:17	10	47381	NOV 15,2009	NOV 14,2009
674	NOV 15,2009	05:18	19	94182	NOV 15,2009	NOV 14,2009
589	NOV 15,2009	05:25	25	122231	NOV 15,2009	NOV 14,2009
598	NOV 15,2009	05:27	11	54847	NOV 15,2009	NOV 14,2009
695	NOV 15,2009	05:32	13	63207	NOV 15,2009	NOV 14,2009
688	NOV 15,2009	06:48	8	37499	NOV 15,2009	NOV 14,2009
605	NOV 15,2009	03:53	13	63374	NOV 15,2009	NOV 14,2009
501	NOV 15,2009	05:07	10	47503	NOV 15,2009	NOV 14,2009
687	NOV 15,2009	04:08	2	8141	NOV 15,2009	NOV 13,2009
653	NOV 15,2009	04:22	4	16470	NOV 15,2009	NOV 14,2009
570	NOV 15,2009	04:30	4	19230	NOV 15,2009	NOV 14,2009
463	NOV 15,2009	04:12	3	10946	NOV 15,2009	NOV 14,2009
644	NOV 15,2009	06:13	10	48525	NOV 15,2009	NOV 14,2009
595	NOV 15,2009	08:47	9	41465	NOV 15,2009	NOV 14,2009
358	NOV 15,2009	22:12	1	2893	NOV 15,2009	NOV 13,2009
640	NOV 15,2009	06:22	11	53296	NOV 15,2009	NOV 14,2009
691	NOV 15,2009	06:51	18	87870	NOV 15,2009	NOV 14,2009
614	NOV 15,2009	09:39	9	43469	NOV 15,2009	NOV 14,2009
460	NOV 15,2009	13:26	5	20288	NOV 15,2009	NOV 14,2009

676	NOV 15,2009	13:16	4	16268	NOV 15,2009	NOV 14,2009
620	NOV 15,2009	14:44	7	33414	NOV 15,2009	NOV 14,2009
649	NOV 15,2009	16:00	5	22797	NOV 15,2009	NOV 14,2009
607	NOV 15,2009	17:24	8	35359	NOV 15,2009	NOV 14,2009
650	NOV 15,2009	18:27	6	25412	NOV 15,2009	NOV 14,2009
596	NOV 15,2009	18:34	7	33352	NOV 15,2009	NOV 14,2009
516	NOV 15,2009	18:39	25	123815	NOV 15,2009	NOV 14,2009
632	NOV 15,2009	18:46	7	34688	NOV 15,2009	NOV 14,2009
635	NOV 15,2009	17:46	10	47618	NOV 15,2009	NOV 14,2009
437	NOV 15,2009	18:44	6	29512	NOV 15,2009	NOV 14,2009
438	NOV 15,2009	18:44	5	22320	NOV 15,2009	NOV 14,2009
667	NOV 15,2009	18:50	8	37578	NOV 15,2009	NOV 14,2009
656	NOV 15,2009	18:52	12	56445	NOV 15,2009	NOV 14,2009
581	NOV 15,2009	19:58	6	29727	NOV 15,2009	NOV 14,2009
618	NOV 15,2009	19:18	18	87425	NOV 15,2009	NOV 14,2009
565	NOV 15,2009	20:25	8	36523	NOV 15,2009	NOV 14,2009
757	NOV 15,2009	20:27	6	29106	NOV 15,2009	NOV 14,2009
544	NOV 15,2009	20:32	13	60081	NOV 15,2009	NOV 14,2009
568	NOV 15,2009	18:41	5	24458	NOV 15,2009	NOV 14,2009
508	NOV 15,2009	20:43	13	61307	NOV 15,2009	NOV 14,2009
523	NOV 15,2009	20:47	13	61031	NOV 15,2009	NOV 14,2009
636	NOV 15,2009	20:03	22	107568	NOV 15,2009	NOV 14,2009
442	NOV 15,2009	19:27	4	18018	NOV 15,2009	NOV 14,2009
538	NOV 15,2009	21:30	5	21433	NOV 15,2009	NOV 14,2009
655	NOV 15,2009	21:36	6	26079	NOV 15,2009	NOV 14,2009
660	NOV 15,2009	19:37	6	25735	NOV 15,2009	NOV 14,2009
692	NOV 15,2009	19:28	4	16406	NOV 15,2009	NOV 13,2009
590	NOV 15,2009	22:32	7	32764	NOV 15,2009	NOV 14,2009
526	NOV 15,2009	22:35	5	24867	NOV 15,2009	NOV 14,2009
673	NOV 15,2009	22:51	22	107336	NOV 15,2009	NOV 14,2009
558	NOV 15,2009	23:02	10	46872	NOV 15,2009	NOV 14,2009
631	NOV 15,2009	23:12	3	12512	NOV 15,2009	NOV 14,2009
550	NOV 15,2009	22:12	7	33890	NOV 15,2009	NOV 14,2009
654	NOV 15,2009	20:22	7	34674	NOV 15,2009	NOV 14,2009
540	NOV 15,2009	23:23	6	25206	NOV 15,2009	NOV 14,2009
405	NOV 15,2009	23:23	5	20190	NOV 15,2009	NOV 14,2009
537	NOV 15,2009	22:26	12	56317	NOV 15,2009	NOV 14,2009
612	NOV 15,2009	20:34	13	61623	NOV 15,2009	NOV 14,2009
621	NOV 15,2009	23:44	9	41958	NOV 15,2009	NOV 14,2009
586	NOV 15,2009	22:49	8	35322	NOV 15,2009	NOV 14,2009
520	NOV 15,2009	22:59	12	59018	NOV 15,2009	NOV 14,2009
519	NOV 15,2009	23:12	2	9746	NOV 15,2009	NOV 14,2009
619	NOV 15,2009	23:49	8	37651	NOV 15,2009	NOV 14,2009
593	NOV 15,2009	21:51	8	35926	NOV 15,2009	NOV 14,2009
554	NOV 15,2009	23:08	10	47296	NOV 15,2009	NOV 14,2009
459	NOV 15,2009	20:13	3	13874	NOV 15,2009	NOV 13,2009
671	NOV 16,2009	00:20	20	96171	NOV 15,2009	NOV 14,2009
662	NOV 15,2009	22:39	8	35149	NOV 15,2009	NOV 14,2009
756	NOV 15,2009	23:44	7	30525	NOV 15,2009	NOV 14,2009
549	NOV 16,2009	00:59	21	100530	NOV 15,2009	NOV 14,2009
664	NOV 16,2009	01:12	11	53317	NOV 15,2009	NOV 14,2009
675	NOV 16,2009	13:51	18	87650	NOV 16,2009	NOV 15,2009
575	NOV 17,2009	15:21	1	2433	NOV 17,2009	NOV 16,2009

COUNT 130

2.1.2 All Acks Received Report

Each application acknowledgement from AITC generates a bulletin to the SD-PAIT local Mail Group and to the Forum Server. The example below shows the Forum Server report with only those sites that have received acknowledgements for all batches.

```
Select PAIT Transmission Reports Option: 2  All Acks Received Report
* Previous selection: RUN COMPLETION DATE from Jan 12,2009 to Jan 20,2009@24
:00
START WITH RUN COMPLETION DATE: Jan 12,2009// Feb 1  (FEB 01, 2009)
GO TO RUN COMPLETION DATE: LAST//
DEVICE: 0;80;9999999  UCX DEVICE
```

```
All Acks Received Report            FEB 6,2009 15:19   PAGE 1
      Site    Run Completed       Acks
----------------------------------------------------------------------
      358    FEB 1,2009          1 of 1
      402    FEB 1,2009          8 of 8
      405    FEB 1,2009          5 of 5
      436    FEB 1,2009          6 of 6
      437    FEB 1,2009          7 of 7
      438    FEB 1,2009          5 of 5
      442    FEB 1,2009          4 of 4
      459    FEB 1,2009          3 of 3
      460    FEB 1,2009          5 of 5
      463    FEB 1,2009          3 of 3
      ------
COUNT 10
```

2.1.3 Missing Sites Report

If any site has not started PAIT, it is listed in this Forum Server report:

```
Select PAIT Transmission Reports Option: 3  Missing Sites Report
* Previous selection: REPORT DATE from Feb 1,2009
START WITH REPORT DATE: Feb 1,2009//   (FEB 01, 2009)
GO TO REPORT DATE: LAST//
DEVICE: 0;80;999999  UCX DEVICE
Missing Site Report                          FEB  6,2009  15:20    PAGE 1
      MISSING SITE
      #
SITE NAME
      REPORT DATE
-------------------------------------------------------------------------------
          *** NO RECORDS TO PRINT ***
```

2.1.4 Transmitted Sites Report

The following is an example of the Forum Server Transmitted Sites Report, which is a less comprehensive version of the Completed Background Job Report above:

```
Select PAIT Transmission Reports Option: 4  Transmitted Sites Report

  * Previous selection: REPORT DATE from Nov 1,2009
  START WITH REPORT DATE: Nov 1,2009// NOV 15  (NOV 15, 2009)
  GO TO REPORT DATE: LAST//
DEVICE: 0;80;99999999  UCX DEVICE
```

SITE #	SITE NAME	TOTAL RECORDS	TOTAL BATCHES	REPORT DATE
502	ALEXANDRIA	21931	5	NOV 18,2009
671	ALM MEM VA	96171	20	NOV 18,2009
503	ALTOONA	17867	4	NOV 18,2009
504	AMARILLO V	25098	7	NOV 18,2009
463	ANCHORAGE	10946	3	NOV 18,2009
506	ANN ARBOR	45522	10	NOV 18,2009
637	ASHEVILLE	52668	12	NOV 18,2009
509	AUGUSTA	27474	6	NOV 18,2009
512	BALTIMORE	73375	15	NOV 18,2009
515	BATTLE CRE	60454	14	NOV 18,2009
516	BAY PINES	123815	25	NOV 18,2009
517	BECKLEY	33404	8	NOV 18,2009
518	BEDFORD	30475	8	NOV 18,2009
520	BILOXI	59018	12	NOV 18,2009
521	BIRMINGHAM	45246	10	NOV 18,2009
531	BOISE	18505	4	NOV 18,2009
523	BOSTON	61031	13	NOV 18,2009
526	BRONX	24867	5	NOV 18,2009
528	BUFFALO	163874	33	NOV 18,2009
529	BUTLER	21750	6	NOV 18,2009
534	CHARLESTON	38071	8	NOV 18,2009
442	CHEYENNE	18018	4	NOV 18,2009
537	CHICAGO WE	56317	12	NOV 18,2009
538	CHILLICOTH	21433	5	NOV 18,2009
539	CINCINNATI	45839	10	NOV 18,2009
540	CLARKSBURG	25206	6	NOV 18,2009
541	CLEVELAND	157145	32	NOV 18,2009
542	COATESVILL	11896	3	NOV 18,2009
544	COLUMBIA	60081	13	NOV 18,2009
757	COLUMBUS	29106	6	NOV 18,2009
549	DALLAS	100530	21	NOV 18,2009
552	DAYTON	28769	6	NOV 18,2009
508	DECATUR	61307	13	NOV 18,2009
554	DENVER	47296	10	NOV 18,2009
553	DETROIT VA	39412	8	NOV 18,2009
557	DUBLIN	19217	4	NOV 18,2009
558	DURHAM	46872	10	NOV 18,2009
561	EAST ORANG	52359	11	NOV 18,2009
756	EL PASO VA	30525	7	NOV 18,2009
562	ERIE	22421	5	NOV 18,2009
437	FARGO	29512	6	NOV 18,2009
564	FAYETTEVIL	89956	18	NOV 18,2009
565	FAYETTEVIL	36523	8	NOV 18,2009
436	FORT HARRI	23870	5	NOV 18,2009
568	FORT MEADE	24458	5	NOV 18,2009
570	FRESNO	19230	4	NOV 18,2009
573	GAINESVILL	138169	28	NOV 18,2009
575	GRAND JUNC	18297	5	NOV 18,2009
691	GREATER LO	87870	18	NOV 18,2009
590	HAMPTON	32764	7	NOV 18,2009
578	HINES	53210	11	NOV 18,2009
459	HONOLULU	13874	3	NOV 18,2009
580	HOUSTON	101051	21	NOV 18,2009

581	HUNTINGTON	29727	6	NOV 18,2009
583	INDIANAPOL	66695	14	NOV 18,2009
585	IRON MOUNT	16095	4	NOV 18,2009
586	JACKSON	35322	8	NOV 18,2009
595	LEBANON	41465	9	NOV 18,2009
596	LEXINGTON	33352	7	NOV 18,2009
598	LITTLE ROC	54847	11	NOV 18,2009
605	LOMA LINDA	63374	13	NOV 18,2009
600	LONG BEACH	44893	9	NOV 18,2009
603	LOUISVILLE	38493	8	NOV 18,2009
607	MADISON	35359	8	NOV 18,2009
608	MANCHESTER	17990	4	NOV 18,2009
358	MANILA	2893	1	NOV 18,2009
612	MARTINEZ	61623	13	NOV 18,2009
613	MARTINSBUR	37082	8	NOV 18,2009
614	MEMPHIS	43469	9	NOV 18,2009
546	MIAMI	100766	21	NOV 18,2009
695	MILWAUKEE	63207	13	NOV 18,2009
618	MINNEAPOLI	87425	18	NOV 18,2009
619	MONTGOMERY	37651	8	NOV 18,2009
621	MOUNTAIN H	41958	9	NOV 18,2009
623	MUSKOGEE	47496	10	NOV 18,2009
649	N.ARIZONA	45836	10	NOV 18,2009
501	N.MEXICO V	47503	10	NOV 18,2009
626	NASHVILLE	66816	14	NOV 18,2009
629	NEW ORLEAN	45970	11	NOV 18,2009
630	NEW YORK	104612	22	NOV 18,2009
556	NORTH CHIC	28382	6	NOV 18,2009
631	NORTHAMPTO	12512	3	NOV 18,2009
610	NORTHERN H	49690	10	NOV 18,2009
632	NORTHPORT	34688	7	NOV 18,2009
635	OKLAHOMA C	926304	192	NOV 18,2009
636	OMAHA	107568	22	NOV 18,2009
640	PALO ALTO	53296	11	NOV 18,2009
642	PHILADELPH	79632	16	NOV 18,2009
644	PHOENIX	48525	10	NOV 18,2009
646	PITTSBURGH	45822	10	NOV 18,2009
648	PORTLAND	47381	10	NOV 18,2009
650	PROVIDENCE	25412	6	NOV 18,2009
652	RICHMOND	48938	10	NOV 18,2009
678	S.ARIZONA	46186	10	NOV 18,2009
655	SAGINAW	26079	6	NOV 18,2009
658	SALEM	34859	7	NOV 18,2009
659	SALISBURY	95373	20	NOV 18,2009
660	SALT LAKE	25735	6	NOV 18,2009
664	SAN DIEGO	53317	11	NOV 18,2009
662	SAN FRANCI	35149	8	NOV 18,2009
672	SAN JUAN	96451	20	NOV 18,2009
666	SHERIDAN	12051	3	NOV 18,2009
667	SHREVEPORT	37578	8	NOV 18,2009
438	SIOUX FALL	22320	5	NOV 18,2009
668	SPOKANE	20153	5	NOV 18,2009
656	ST CLOUD	56445	12	NOV 18,2009
673	TAMPA	107336	22	NOV 18,2009
674	TEMPLE	94182	19	NOV 18,2009
402	TOGUS	63068	14	NOV 18,2009
676	TOMAH	16268	4	NOV 18,2009
679	TUSCALOOSA	11456	3	NOV 18,2009
657	VA HEARTLA	92538	19	NOV 18,2009

```
589    VA HEARTLA      132231         27          NOV 18,2009
620    VA HUDSON       33414          7           NOV 18,2009
550    VA ILLIANA      33890          7           NOV 18,2009
675    VA MEDICAL      87650          18          NOV 18,2009
663    VA PUGET S      60648          13          NOV 18,2009
654    VA RENO         34674          7           NOV 18,2009
653    VA ROSEBUR      16470          4           NOV 18,2009
593    VA SOUTH N      35926          8           NOV 18,2009
692    VA SOUTHER      16406          4           NOV 18,2009
548    W PALM BEA      114022         24          NOV 18,2009
519    W.TEXAS VA      9746           2           NOV 18,2009
687    WALLA WALL      8141           2           NOV 18,2009
688    WASHINGTON      37499          8           NOV 18,2009
689    WEST HAVEN      57627          12          NOV 18,2009
405    WHITE RIVE      20190          5           NOV 18,2009
693    WILKES BAR      44078          9           NOV 18,2009
460    WILMINGTON      20288          5           NOV 18,2009
               ---
COUNT   129
```

2.1.5   Ack Status Report

This report is similar to the All Ack's Received report described above but shows more detail about each individual batch acknowledgement by site.

```
Select PAIT Transmission Reports Option: 5  Ack Status Report
* Previous selection: DATE/TIME from Jan 12,2009 to Jan 23,2009@24:00
START WITH DATE/TIME: Jan 12,2009// Feb 1 2009  (FEB 01, 2009)
GO TO DATE/TIME: LAST//
DEVICE: 0;80;99999999  UCX DEVICE

ACK STATUS REPORT                          FEB 6,2009 15:21   PAGE 1
SITE                        ACKS
NUMBER      RUN Ack STATUS  COMPLETE   DATE/TIME
-----------------------------------------------------------------------

358         1 of 1          YES        FEB 2,2009 16:21
            --------
SUBCOUNT  1
402         1 of 8                     FEB 2,2009 17:05
402         2 of 8                     FEB 2,2009 17:05
402         3 of 8                     FEB 2,2009 17:05
 402        4 of 8                     FEB 2,2009 17:05
 402        5 of 8                     FEB 2,2009 17:05
402         6 of 8                     FEB 2,2009 17:06
402         7 of 8                     FEB 2,2009 17:06
402         8 of 8          YES        FEB 2,2009 17:06
            --------
SUBCOUNT  8
405         1 of 5                     FEB 2,2009 22:00
405         2 of 5                     FEB 2,2009 22:00
405         3 of 5                     FEB 2,2009 22:00
405         4 of 5                     FEB 2,2009 22:00
405         5 of 5          YES        FEB 2,2009 22:00
            --------
SUBCOUNT  5
```

2.1.6 Site Bulletin History

This report shows the timing of each phase of the transmission for each site:

```
Select PAIT Transmission Reports Option: 6  Site Message History
DEVICE: 0;80;9999999  UCX DEVICE

PAIT TRANSMISSION LOG LIST            FEB 6,2009 15:22   PAGE 1
SITE
NUMBER         MESSAGE TYPE                  DATE/TIME
------------------------------------------------------------------------

358            STARTED TRANSMISSION          EB 1,2009 09:00
358            BACKGROUND JOB COMPLETE       FEB 1,2009 09:14
358            ACKNOWLEDGMENT                FEB 2,2009 16:21
402            STARTED TRANSMISSION          FEB 1,2009 04:00
402            BACKGROUND JOB COMPLETE       FEB 1,2009 04:42
402            ACKNOWLEDGMENT                FEB 2,2009 17:05
402            ACKNOWLEDGMENT                FEB 2,2009 17:05
402            ACKNOWLEDGMENT                FEB 2,2009 17:05
402            ACKNOWLEDGMENT                FEB 2,2009 17:05
402            ACKNOWLEDGMENT                FEB 2,2009 17:05
402            ACKNOWLEDGMENT                FEB 2,2009 17:06
402            ACKNOWLEDGMENT                FEB 2,2009 17:06
402            ACKNOWLEDGMENT                FEB 2,2009 17:06
405            STARTED TRANSMISSION          FEB 1,2009 23:00
405            BACKGROUND JOB COMPLETE       FEB 1,2009 23:20
405            ACKNOWLEDGMENT                FEB 2,2009 22:00
405            ACKNOWLEDGMENT                FEB 2,2009 22:00
405            ACKNOWLEDGMENT                FEB 2,2009 22:00
405            ACKNOWLEDGMENT                FEB 2,2009 22:00
405            ACKNOWLEDGMENT                FEB 2,2009 22:00
436            STARTED TRANSMISSION          FEB 1,2009 05:00
436            BACKGROUND JOB COMPLETE       FEB 1,2009 05:33
436            ACKNOWLEDGMENT                FEB 2,2009 17:05
436            ACKNOWLEDGMENT                FEB 2,2009 17:05
436            ACKNOWLEDGMENT                FEB 2,2009 17:05
436            ACKNOWLEDGMENT                FEB 2,2009 17:05
436            ACKNOWLEDGMENT                FEB 2,2009 17:06
436            ACKNOWLEDGMENT                FEB 2,2009 17:06
```

2.1.7 PAIT Summary Report

This report summarizes the state of each phase of the PAIT transmission for each site. A legend showing the meanings of column headings appears at the end of the report.

```
Select PAIT Transmission Reports Option: 7  PAIT SUMMARY REPORT
```

PAIT Summary Report

Site #	NAME	START	BACKGRND	ACKS	V	O	M
358	MANILA-RO	Started	Finished	Complete	1	3	
402	TOGUS MAINE VAMC	Started	Finished	Complete	6	6	
405	WHITE RIVER JCT VA	Started	Finished	None	3	3	
436	MONTANA HCS	Started	Finished	Complete	4	4	
437	FARGO VAMROC	Started	Finished	Complete	5	5	
438	SIOUX FALLS VAMROC	Started	Finished	Complete	4	4	
442	CHEYENNE VAMC	Started	Finished	Complete	1	3	
459	VA PACIFIC ISLANDS	Started	Finished	Complete	3	3	
460	WILMINGTON VAMC	Started	Finished	Compete	4	4	
463	ALASKA VAHSRO	Started	Finished	Complete	2	2	
501	NEW MEXICO HCS	Started	Finished	Complete	8	8	
502	ALEXANDRIA VAMC	Started	Finished	Complete	4	4	
503	ALTOONA	Started	Finished	Complete	4	4	
504	AMARILLO HCS	Started	Finished	None	6	6	
506	ANN ARBOR VAMC	Started	Finished	Complete	6	6	
508	ATLANTA VAMC	Started	Finished	Complete	10	10	
509	AUGUSTA VAMC	Started	Finished	Complete	5	5	
512	BALTIMORE MD VAMC	Started	Finished	Complete	9	9	
515	BATTLE CREEK VAMC	Started	Finished	Complete	6	6	
516	BAY PINES VA HCS	Started	Finished	Complete	18	18	
517	BECKLEY VAMC	Started	Finished	Complete	3	3	
518	BEDFORD VAMC	Started	Finished	Complete	5	5	
519	WEST TEXAS HCS	Started	Finished	Complete	3	3	
520	BILOXI VAMC	Started	Finished	Complete	10	10	
521	BIRMINGHAM VAMC	Started	Finished	Complete	8	8	
523	BOSTON HCS VAMC	Started	Finished	Complete	12	12	
526	BRONX VAMC	Started	Finished	Complete	5	5	
528	UPSTATE NEW YORK H	Started	Finished	Complete	27	27	
529	BUTLER	Started	Finished	Complete	2	2	
531	BOISE VAMC	Started	Finished	Complete	4	4	
534	CHARLESTON VAMC	Started	Finished	Complete	7	7	
537	JESSE BROWN VAMC	Started	Finished	Complete	12	12	
538	CHILLICOTHE, OH VA	Started	Finished	Complete	4	4	
539	CINCINNATI	Started	Finished	Complete	6	6	
540	CLARKSBURG VAMC	Started	Finished	Complete	5	5	
541	CLEVELAND VAMC	Started	Finished	Complete	19	19	
542	COATESVILLE VAMC	Started	Finished	Complete	3	3	
544	COLUMBIA, SC VAMC	Started	Finished	Complete	10	10	
546	MIAMI VAMC	Started	Finished	None	25		
548	WEST PALM BEACH VA	Started	Finished	Complete	12	12	
549	NORTH TEXAS HCS	Started	Finished	Complete	16	16	
550	ILLIANA HCS	Started	Finished	Complete	6	6	
552	DAYTON	Started	Finished	Complete	5	5	
553	DETROIT, MI VAMC	Started	Finished	Complete	6	6	
554	EASTERN COLORADO H	Started	Finished	Complete	8	8	
556	NORTH CHICAGO VAMC	Started	Finished	Complete	5	5	
557	DUBLIN VAMC	Started	Finished	Complete	4	4	
558	DURHAM VAMC	Started	Finished	Complete	8	8	
561	EAST ORANGE-VA NEW	Started	Finished	Complete	9	9	
562	ERIE VAMC	Started	Finished	Complete	4	4	
564	FAYETTEVILLE AR	Started	Finished	Complete	7	7	
565	FAYETTEVILLE NC VA	Started	Finished	Complete	7	7	
568	BLACK HILLS HCS	Started	Finished	Complete	5	5	
570	CENTRAL CALIFORNIA	Started	Finished	Complete	4	4	
573	N. FLORIDA/S. GEOR	Started	Finished	In Progress	20	20	

575	GRAND JUNCTION VA	Started	Finished	Complete	2	2
578	HINES, IL VAMC	Started	Finished	Complete	11	11
580	HOUSTON VAMC	Started	Finished	Complete	18	18
581	HUNTINGTON VAMC	Started	Finished	Complete	6	6
583	INDIANAPOLIS VAMC	Started	Running	None	10	
585	IRON MOUNTAIN VAMC	Started	Finished	Complete	3	3
586	JACKSON VAMC	Started	Finished	Complete	7	7
589	VA HEARTLAND – WES	Started	Finished	Complete	21	21
590	HAMPTON (VAMC)	Started	Finished	Complete	6	6
593	SOUTHERN NEVADA HC	Started	Finished	Complete	6	6
595	LEBANON VAMC	Started	Finished	Complete	7	7
596	LEXINGTON-LD VAMC	Started	Finished	Complete	6	6
598	CENTRAL ARKANSAS H	Started	Finished	Complete	10	10
600	LONG BEACH,CA VAMC	Started	Finished	Complete	8	8
603	LOUISVILLE, KY VAM	Started	Finished	Complete	6	6
605	LOMA LINDA VAMC	Started	Finished	Complete	11	11
607	MADISON, WI VA HOS	Started	Finished	Complete	6	6
608	MANCHESTER VAMC	Started	Finished	Complete	3	3
610	MARION, IN	Started	Finished	Complete	5	5
612	NORTHERN CALIFORNI	Started	Finished	Complete	10	10
613	MARTINSBURG VAMC	Started	Finished	None	7	
614	MEMPHIS VAMC	Started	Finished	Complete	8	8
618	MINNEAPOLIS VAMC	Started	Finished	Complete	15	15
619	CENTRAL ALABAMA HC	Started	Finished	Complete	6	6
620	HUDSON VALLEY HCS	Started	Finished	Complete	6	6
621	MOUNTAIN HOME VAMC	Started	Finished	Complete	6	6
623	JACK C. MONTGOMERY	Started	Finished	Complete	4	4
626	TENNESSEE VALLEY H	Started	Finished	Complete	12	12
629	SE Louisiana Veter	Started	Finished	Complete	5	5
630	NEW YORK HHS	Started	Finished	Complete	12	12
631	NORTHAMPTON VAMC	Started	Finished	Complete	3	3
632	NORTHPORT	Started	Finished	Complete	7	7
635	OKLAHOMA CITY VAMC	Started	Finished	Complete	8	8
636	VA NWIHS, OMAHA DI	Started	Finished	Complete	19	19
637	ASHEVILLE VAMC	Started	Finished	Complete	5	5
640	PALO ALTO HCS	Started	Finished	Complete	10	10
642	PHILADELPHIA, PA V	Started	Finished	Complete	11	11
644	PHOENIX VAMC	Started	Finished	Complete	8	9
646	PITTSBURGH (UD), P	Started	Finished	Complete	8	8
648	PORTLAND (OR) VAMC	Started	Finished	Complete	9	9
649	NORTHERN ARIZONA H	Started	Finished	Complete	4	4
650	PROVIDENCE VAMC	Started	Finished	Complete	5	6
652	RICHMOND VAMC	Started	Finished	Complete	8	8
653	ROSEBURG HCS	Started	Finished	Complete	4	4
654	SIERRA NEVADA HCS	Started	Finished	Complete	6	6
655	SAGINAW	Failed	Unknown	None		
656	ST. CLOUD VAMC	Started	Finished	Complete	8	8
657	ST. LOUIS MO VAMC-	Started	Finished	Complete	18	18
658	SALEM VAMC	Started	Finished	Complete	9	9
660	SALT LAKE CITY HCS	Started	Finished	Complete	5	5
662	SAN FRANCISCO VAMC	Started	Finished	Complete	6	6
663	PUGET SOUND HCS	Started	Finished	Complete	11	11
664	SAN DIEGO HCS	Started	Finished	Complete	10	10
666	SHERIDAN, WY VAMC	Started	Finished	Complete	2	2
667	SHREVEPORT VAMC	Started	Finished	Complete	8	8
668	SPOKANE VAMC	Started	Finished	Complete	4	4
671	SOUTH TEXAS HCS	Started	Finished	Complete	16	16
672	SAN JUAN VAMC	Started	Finished	Complete	18	18
673	TAMPA VAMC	Started	Finished	Complete	28	33

674	CENTRAL TEXAS HCS	Started	Finished	Complete	18	18
676	TOMAH VAMC	Started	Finished	Complete	4	4
678	SOUTHERN ARIZONA V	Started	Finished	Complete	7	7
679	TUSCALOOSA	Started	Finished	Complete	3	3
687	WALLA WALLA VAMC	Started	Finished	Complete	2	2
688	WASHINGTON	Started	Finished	Complete	7	7
689	CONNECTICUT HCS	Started	Finished	Complete	9	9
691	WEST LA VAMC	Started	Finished	None	16	25
692	WHITE CITY VAMC	Started	Finished	Complete	7	7
693	WILKES-BARRE VAMC	Started	Finished	Complete	8	8
695	MILWAUKEE VAMC	Started	Finished	Complete	12	12
756	EL PASO VA HCS	Started	Finished	Complete	5	5
757	COLUMBUS VAMC	Started	Finished	Complete	5	5

Note: Columns O and M are listed only if the related data is received in bulletins sent to the Forum Server by Vitria and AITC.

The following warnings are listed after the status summary if applicable:

WARNING - the following sites failed to start PAIT:

655   SAGINAW

WARNING - the following sites have not completed PAIT:

583   INDIANAPOLIS VAMC
655   SAGINAW

WARNING - the following sites have not received all Acks:

405	WHITE RIVER JCT VA	STATUS OF ACK'S - None
504	AMARILLO HCS	STATUS OF ACK'S - None
546	MIAMI VAMC	STATUS OF ACK'S - None
573	N. FLORIDA/S. GEOR	STATUS OF ACK'S - In Progress
691	WEST LA VAMC	STATUS OF ACK'S - None

WARNING - the following sites have miss-matched message counts:

		VistA	AITC
358	MANILA-RO	3004	
402	TOGUS MAINE VAMC	26271	
405	WHITE RIVER JCT VA	14135	
436	MONTANA HCS	18616	
437	FARGO VAMROC	21395	
438	SIOUX FALLS VAMROC	18960	
442	CHEYENNE VAMC	182	
459	VA PACIFIC ISLANDS	11635	
460	WILMINGTON VAMC	16991	
463	ALASKA VAHSRO	7089	
501	NEW MEXICO HCS	39529	
502	ALEXANDRIA VAMC	19741	
503	ALTOONA	16864	
504	AMARILLO HCS	27031	
506	ANN ARBOR VAMC	25938	
508	ATLANTA VAMC	45767	
509	AUGUSTA VAMC	20942	

512	BALTIMORE MD VAMC	43858
515	BATTLE CREEK VAMC	26767
516	BAY PINES VA HCS	88976
517	BECKLEY VAMC	13623
518	BEDFORD VAMC	22603
519	WEST TEXAS HCS	10580
520	BILOXI VAMC	46886
521	BIRMINGHAM VAMC	37781
523	BOSTON HCS VAMC	58400
526	BRONX VAMC	22011
528	UPSTATE NEW YORK H	130025
529	BUTLER	8744
531	BOISE VAMC	16894
534	CHARLESTON VAMC	32950
537	JESSE BROWN VAMC	56003
538	CHILLICOTHE, OH VA	17811
539	CINCINNATI	29305
540	CLARKSBURG VAMC	20125
541	CLEVELAND VAMC	93463
542	COATESVILLE VAMC	11359
544	COLUMBIA, SC VAMC	48305
546	MIAMI VAMC	120945
548	WEST PALM BEACH VA	55131
549	NORTH TEXAS HC	76556
550	ILLIANA HCS	27213
552	DAYTON	24283
553	DETROIT, MI VAMC	28668
554	EASTERN COLORADO H	35923
556	NORTH CHICAGO VAMC	20907
557	DUBLIN VAMC	15815
558	DURHAM VAMC	36110
561	EAST ORANGE-VA NEW	44500
562	ERIE VAMC	18738
564	FAYETTEVILLE AR	34699
565	FAYETTEVILLE NC VA	33461
568	BLACK HILLS HCS	21486
570	CENTRAL CALIFORNIA	17095
573	N. FLORIDA/S. GEOR	96887
575	HINES, IL VAMC	52607
580	HOUSTON VAMC	85782
581	HUNTINGTON VAMC	26936
585	IRON MOUNTAIN VAMC	13724
586	VA HEARTLAND – WES	103454
590	HAMPTON (VAMC)	25558
593	SOUTHERN NEVADA HC	29728
595	LEBANON VAMC	31286
596	LEXINGTON-LD VAMC	28195
598	CENTRAL ARKANSAS H	45188
600	LONG BEACH,CA VAMC	37473
603	LOUISVILLE, KY VAM	29980
605	LOMA LINDA VAMC	51991
607	MADISON, WI VA HOS	29861
608	MANCHESTER VAMC	14517
610	MARION, IN	24562
612	NORTHERN CALIFORNI	49929
613	MARTINSBURG VAMC	32660
614	MEMPHIS VAMC	36727
618	MINNEAPOLIS VAMC	71486
619	CENTRAL ALABAMA HC	28608

620	HUDSON VALLEY HCS	29391
621	MOUNTAIN HOME VAMC	28379
623	JACK C. MONTGOMERY	18237
626	TENNESSEE VALLEY H	57671
629	SE Louisiana Veter	23249
630	NEW YORK HHS	57198
631	NORTHAMPTON VAMC	10314
632	NORTHPORT	30291
635	OKLAHOMA CITY VAMC	36966
636	VA NWIHS, OMAHA DI	91971
637	ASHEVILLE VAMC	21684
640	PALO ALTO HCS	48810
642	PHILADELPHIA, PA V	50608
644	PHOENIX VAMC	37633
646	PITTSBURGH (UD), P	37892
648	PORTLAND (OR) VAMC	43690
649	NORTHERN ARIZONA H	17614
650	PROVIDENCE VAMC	23992
652	RICHMOND VAMC	39330
653	ROSEBURG HCS	15689
654	SIERRA NEVADA HCS	27711
656	ST. CLOUD VAMC	38118
657	ST. LOUIS MO VAMC	87512
658	SALEM VAMC	25300
659	SALISBURY VAMC	40467
660	SALT LAKE CITY HCS	21471
662	SAN FRANCISCO VAMC	28116
663	PUGET SOUND HCS	50759
664	SAN DIEGO HCS	46462
666	SHERIDAN, WY VAMC	5259
667	SHREVEPORT VAMC	35371
668	SPOKANE VAMC	15786
671	SOUTH TEXAS HCS	78408
672	SAN JUAN VAMC	85639
673	TAMPA VAMC	138279
674	CENTRAL TEXAS HCS	86225
676	TOMAH VAMC	16031
678	SOUTHERN ARIZONA V	31919
679	TUSCALOOSA	10327
687	WALLA WALLA VAMC	6658
688	WASHINGTON	33320
689	CONNECTICUT HCS	43350
691	WEST LA VAMC	75819
692	WHITE CITY VAMC	30129
693	WILKES-BARRE VAMC	35225
695	MILWAUKEE VAMC	58620
756	EL PASO VA HCS	23794
757	COLUMBUS VAMC	21809

WARNING - the following sites have miss-matched Batch counts:

		V	O	M
358	MANILA-RO	1	3	
402	TOGUS MAINE VAMC	6	6	
405	WHITE RIVER JCT VA	3	3	
436	MONTANA HCS	4	4	
437	FARGO VAMROC	5	5	
438	SIOUX FALLS VAMROC	4	4	

442	CHEYENNE VAMC	1	3
459	VA PACIFIC ISLANDS	3	3
460	WILMINGTON VAMC	4	4
463	ALASKA VAHSRO	2	2
501	NEW MEXICO HCS	8	8
502	ALEXANDRIA VAMC	4	4
503	ALTOONA	4	4
504	AMARILLO HCS	6	6
506	ANN ARBOR VAMC	6	6
508	ATLANTA VAMC	10	10
509	AUGUSTA VAMC	5	5
512	BALTIMORE MD VAMC	9	9
515	BATTLE CREEK VAMC	6	6
516	BAY PINES VA HCS	18	18
517	BECKLEY VAMC	3	3
518	BEDFORD VAMC	5	5
519	WEST TEXAS HCS	3	3
520	BILOXI VAMC	10	10
521	BIRMINGHAM VAMC	8	8
523	BOSTON HCS VAMC	12	12
526	BRONX VAMC	5	5
528	UPSTATE NEW YORK H	27	27
529	BUTLER	2	2
531	BOISE VAMC	4	4
534	CHARLESTON VAMC	7	7
537	JESSE BROWN VAMC	12	12
538	CHILLICOTHE, OH VA	4	4
539	CINCINNATI	6	6
540	CLARKSBURG VAMC	5	5
541	CLEVELAND VAMC	19	19
542	COATESVILLE VAMC	3	3
544	COLUMBIA, SC VAMC	10	10
546	MIAMI VAMC	25	
548	WEST PALM BEACH VA	12	12
549	NORTH TEXAS HCS	16	16
550	ILLIANA HCS	6	6
552	DAYTON	5	5
553	DETROIT, MI VAMC	6	6
554	EASTERN COLORADO H	8	8
556	NORTH CHICAGO VAMC	5	5
557	DUBLIN VAMC	4	4
558	DURHAM VAMC	8	8
561	EAST ORANGE-VA NEW	9	9
562	ERIE VAMC	4	4
564	FAYETTEVILLE AR	7	7
565	FAYETTEVILLE NC VA	7	7
568	BLACK HILLS HCS	5	5
570	CENTRAL CALIFORNIA	4	4
573	N. FLORIDA/S. GEOR	20	20
575	GRAND JUNCTION (VA	2	2
578	HINES, IL VAMC	11	11
580	HOUSTON VAMC	18	18
581	HUNTINGTON VAMC	6	6
583	INDIANAPOLIS VAMC	10	
585	IRON MOUNTAIN VAMC	3	3
586	JACKSON VAMC	7	7
589	VA HEARTLAND – WES	21	21
590	HAMPTON (VAMC)	6	6
593	SOUTHERN NEVADA HC	6	6

595	LEBANON VAMC	7	7
596	LEXINGTON-LD VAMC	6	6
598	CENTRAL ARKANSAS H	10	10
600	LONG BEACH,CA VAMC	8	8
603	LOUISVILLE, KY VAM	6	6
605	LOMA LINDA VAMC	11	11
607	MADISON, WI VA HOS	6	6
608	MANCHESTER VAMC	3	3
610	MARION, IN	5	5
612	NORTHERN CALIFORNI	10	10
613	MARTINSBURG VAMC	7	
614	MEMPHIS VAMC	8	8
618	MINNEAPOLIS VAMC	15	15
619	CENTRAL ALABAMA HC	6	6
620	HUDSON VALLEY HCS	6	6
621	MOUNTAIN HOME VAMC	6	6
623	JACK C. MONTGOMERY	4	4
626	TENNESSEE VALLEY H	12	12
629	SE Louisiana Veter	5	5
630	NEW YORK HHS	12	12
631	NORTHAMPTON VAMC	3	3
632	NORTHPORT	7	7
635	OKLAHOMA CITY VAMC	8	8
636	VA NWIHS, OMAHA D	19	19
637	ASHEVILLE VAMC	5	5
640	PALO ALTO HCS	10	10
642	PHILADELPHIA, PA V	11	11
644	PHOENIX VAMC	8	9
646	PITTSBURGH (UD), P	8	8
648	PORTLAND (OR) VAMC	9	9
649	NORTHERN ARIZONA H	4	4
650	PROVIDENCE VAMC	5	6
652	RICHMOND VAMC	8	8
653	ROSEBURG HCS	4	4
654	SIERRA NEVADA HCS	6	6
656	ST. CLOUD VAMC	8	8
657	ST. LOUIS MO VAMC-	18	18
658	SALEM VAMC	6	6
659	SALISBURY VAMC	9	9
660	SALT LAKE CITY HCS	5	5
662	SAN FRANCISCO VAMC	6	6
663	PUGET SOUND HCS	11	11
664	SAN DIEGO HCS	10	10
666	SHERIDAN, WY VAMC	2	2
667	SHREVEPORT VAMC	8	8
668	SPOKANE VAMC	4	4
671	SOUTH TEXAS HCS	16	16
672	SAN JUAN VAMC	18	18
673	TAMPA VAMC	28	33
674	CENTRAL TEXAS HCS	18	18
676	TOMAH VAMC	4	4
678	SOUTHERN ARIZONA V	7	7
679	TUSCALOOSA	3	3
687	WALLA WALLA VAMC	2	2
688	WASHINGTON	7	7
689	CONNECTICUT HCS	9	9
691	WEST LA VAMC	16	25
692	WHITE CITY VAMC	7	7
693	WILKES-BARRE VAMC	8	8

695	MILWAUKEE VAMC	12	12
756	EL PASO VA HCS	5	5
757	COLUMBUS VAMC	5	5

Legend:

#	= Site Number
NAME	= Site Name
START	= PAIT Background Job Start-up Status
BACKGRND	= PAIT Background Job Completion Status
ACKS	= PAIT Acknowledgement Status
V	= Number of Batches Transmitted by VistA to Local IE
O	= Number of Batches Transmitted by Local IE to AITC
M	= Number of Batches Transmitted by AITC to MVS

Section 3   Archiving and Purging

Each entry added to the Patient Appointment Info Log (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 generates 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 remain in the system for three days.

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

Only the top level of the Patient Appointment Info Log and the Batch Tracking multiple (# 409.7) are kept in the system permanently.

The Patient Appointment Info Log is purged at the end of the main transmission processing. Appointments from acknowledged batches are evaluated and entries are deleted if they were transmitted in a Final state.

3.1   Files

```
409.6  PATIENT APPOINTMENT INFO LOG      -         ^SDWL(409.6
```

Detailed information related to each transmission is stored in the Patient Appointment Info Log file (# 409.6). Below is a brief listing of fields in this file:

```
   FIELD          FIELD NAME

   .01   RUN DATE (RD), [0;1]
   1     TASK ID (F), [0;2]
   1.1   LAST BATCH # OF THIS RUN (NJ13,0), [0;3]
   1.2   LAST SCANNED DATE (RD), [0;4]
   1.3   # OF APPOINTMENTS (NJ9,0), [0;5]
   1.4   # OF BATCHES (RNJ6,0), [0;6]
   1.5   TRANSMISSION FINISHED (RD), [0;7]
   2     PATIENT (Multiple-409.69), [1;0]
         .01  PATIENT (P2'), [0;1]
         1    APPT DATE (D), [0;2]
         2    HL7 MESSAGE ID (F), [0;3]
         3    HL7 SEQUENCE ID (RF), [0;4]
         4    RETENTION FLAG (RS), [0;5]
         5    EVENT REASON (S), [0;6]
         6    DATE APPT MADE (RD), [0;7]
         7    ERROR MESSAGE (P404.472'), [0;8]
         8    APPOINTMENT TYPE (S), [0;9]
         9    CLINIC (P44'), [0;10]
   3     BATCH TRACKING (Multiple-409.7), [2;0]
         .01  BATCH CONTROL ID (F), [0;1]
         .02  BATCH CREATE DATE/TIME (D), [0;2]
         .03  MESSAGE CONTROL ID (F), [0;3]
         .04  APPLICATION ACK DATE/TIME (D), [0;4]
```

```
                 .05  APPLICATION ACK TYPE (S), [0;5]


PCMM HL7 ERROR CODE FILE              ^SCPT(404.472,
```

The PCMM HL7 Error Code file (#404.472), initially used only by the PCMM HL7 transmission, is also used by PAIT. Several new PAIT related rejection codes generated by AITC have been added.

Follow this VistA menu/option path to generate information on PAIT file attributes and relationships (pointers) between files:

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

PAIT reports on VistA are generated by sort and print templates associated with the Patient Appointment Info Log:

```
     TEMPLATE LIST  --  FILE #409.6                         03/10/09   PAGE 1
     --------------------------------------------------------------------------

     INPUT TEMPLATE(S):

     PRINT TEMPLATES:


     SD-PAIT PAIT ACK SUMMARY       JAN 27, 2004@14:09  USER #0
                                    PAIT ACK SUMMARY
     SD-PAIT PATIENT HL7 LOCATION   OCT 05, 2004@10:46  USER #0
                                    SD-PAIT PATIENT HL7 LOCATION
     SD-PAIT PATIENT PENDING APPT   JAN 22, 2004@21:16  USER #0
                                    PATIENT PENDING APPOINTMENT LOG
     SD-PAIT REJECTED APPT          JAN 29, 2004@10:32  USER #0
                                    PATIENT APPOINTMENT INFO LOG LIST
     SD-PAIT TRANS SUMMARY           JAN 27, 2004@13:47  USER #0
                                    PATIENT APPOINTMENT INFO LOG LIST


 This template is used with the Acknowledgement Summary [SD-PAIT ACK SUMMARY] report:

     NAME: SD-PAIT PAIT ACK SUMMARY
       DATE CREATED: JAN 27, 2004@14:09      READ ACCESS: @
       FILE: PATIENT APPOINTMENT INFO LOG    WRITE ACCESS: @
       DATE LAST USED: NOV 06, 2007
       HEADER (c): PAIT ACK SUMMARY
     FIRST PRINT FIELD: BATCH TRACKING//
       THEN PRINT BATCH TRACKING SUB-FIELD: BATCH CONTROL ID//
       THEN PRINT BATCH TRACKING SUB-FIELD: MESSAGE CONTROL ID//
       THEN PRINT BATCH TRACKING SUB-FIELD: APPLICATION ACK DATE/TIME//
       THEN PRINT BATCH TRACKING SUB-FIELD: APPLICATION ACK TYPE//
       THEN PRINT BATCH TRACKING SUB-FIELD: //
     THEN PRINT FIELD: //
       COMPILED (c): NO
```

This template is used with the Patient HL7 Location [SD-PAIT PATIENT HL7 LOCATION]
report:

```
     NAME: SD-PAIT PATIENT HL7 LOCATION
       DATE CREATED: OCT 05, 2004@10:46      READ ACCESS: @
       FILE: PATIENT APPOINTMENT INFO LOG    WRITE ACCESS: @
       DATE LAST USED: AUG 02, 2005
       HEADER (c): SD-PAIT PATIENT HL7 LOCATION
     FIRST PRINT FIELD: PATIENT//
       THEN PRINT PATIENT SUB-FIELD: PATIENT;L20//
       THEN PRINT PATIENT SUB-FIELD: APPT DATE//
       THEN PRINT PATIENT SUB-FIELD: "  ";" HL7 MESSAGE"//
       THEN PRINT PATIENT SUB-FIELD: HL7 MESSAGE ID;X//
       THEN PRINT PATIENT SUB-FIELD: "-"//
       THEN PRINT PATIENT SUB-FIELD: HL7 SEQUENCE ID;X//
       THEN PRINT PATIENT SUB-FIELD: //
     THEN PRINT FIELD: //
       COMPILED (c): NO
```

This template is used with the Pending Transmission [SD-PAIT PENDING] report:

```
      NAME: SD-PAIT PATIENT PENDING APPT
       DATE CREATED: JAN 22, 2004@21:16      READ ACCESS: @
       FILE: PATIENT APPOINTMENT INFO LOG    WRITE ACCESS: @
       DATE LAST USED: JUL 02, 2005
       HEADER (c): PATIENT PENDING APPOINTMENT LOG
     FIRST PRINT FIELD: PATIENT//
       THEN PRINT PATIENT SUB-FIELD: PATIENT//
       THEN PRINT PATIENT SUB-FIELD: APPT DATE//
       THEN PRINT PATIENT SUB-FIELD: EVENT REASON//
       THEN PRINT PATIENT SUB-FIELD: APPOINTMENT TYPE//
       THEN PRINT PATIENT SUB-FIELD: CLINIC//
       THEN PRINT PATIENT SUB-FIELD: //
     THEN PRINT FIELD: //
       COMPILED (c): NO
```

This template is used with the Rejected Transmissions [SD-PAIT REJECTED] report:

```
     NAME: SD-PAIT REJECTED APPT
       DATE CREATED: JAN 29, 2004@10:32      FILE: PATIENT APPOINTMENT INFO LOG
       DATE LAST USED: FEB 24, 2010
       HEADER (c): PATIENT APPOINTMENT INFO LOG LIST
     FIRST PRINT FIELD: PATIENT//
       THEN PRINT PATIENT SUB-FIELD: PATIENT//
       THEN PRINT PATIENT SUB-FIELD: APPT DATE//
       THEN PRINT PATIENT SUB-FIELD: 7://
         THEN PRINT PCMM HL7 ERROR CODE FIELD: SHORT DESCRIPTION//
         THEN PRINT PCMM HL7 ERROR CODE FIELD: ERROR MESSAGE//
         THEN PRINT PCMM HL7 ERROR CODE FIELD: CLINIC//
         THEN PRINT PCMM HL7 ERROR CODE FIELD: //
       THEN PRINT PATIENT SUB-FIELD: //
     THEN PRINT FIELD: //
       COMPILED (c): NO
```

This template is used with the Transmission Summary [SD-PAIT TRANSMISSION SUMMARY]
report:

```
     NAME: SD-PAIT TRANS SUMMARY
       DATE CREATED: JAN 27, 2004@13:47      READ ACCESS: @
```

```
       FILE: PATIENT APPOINTMENT INFO LOG    WRITE ACCESS: @
       DATE LAST USED: JUL 27, 2006
       HEADER (c): PATIENT APPOINTMENT INFO LOG LIST
FIRST PRINT FIELD: RUN DATE//
THEN PRINT FIELD: LAST SCANNED DATE//
THEN PRINT FIELD: # OF APPOINTMENTS//
THEN PRINT FIELD: # OF BATCHES;S//
THEN PRINT FIELD: BATCH TRACKING//
   THEN PRINT BATCH TRACKING SUB-FIELD: BATCH CONTROL ID//
   THEN PRINT BATCH TRACKING SUB-FIELD: BATCH CREATE DATE/TIME//
   THEN PRINT BATCH TRACKING SUB-FIELD: MESSAGE CONTROL ID//
   THEN PRINT BATCH TRACKING SUB-FIELD: //
THEN PRINT FIELD: //
   COMPILED (c): NO
```

SORT TEMPLATES:

The PENDING APPT EXCLUDING FUTURE template sorts pending appointments by APPT
DATE to be evaluated for possible finalizing:

```
PENDING APPT EXCLUDING FUTURE SEP 29, 2003@10:03  USER #0
SORT BY: PATIENT//
PATIENT SUB-FIELD: RETENTION FLAG// (RETENTION FLAG equals Y (YES –
to be sent when 'Final'))
       WITHIN RETENTION FLAG, SORT BY: PATIENT//
       PATIENT SUB-FIELD: APPT DATE//    (User is asked range)
       WITHIN APPT DATE, SORT BY: PATIENT//
       PATIENT SUB-FIELD: APPOINTMENT TYPE// (All APPOINTMENT TYPE
       (includes nulls))
       WITHIN APPOINTMENT TYPE, SORT BY: PATIENT//
       PATIENT SUB-FIELD: EVENT REASON// (All EVENT REASON (includes
       nulls))
```

The SD-PAIT PAIT ACK SORT template sorts all batches by their finished transmission date:

```
SD-PAIT PAIT ACK SORT         JAN 27, 2004@14:08  USER #0
SORT BY: TRANSMISSION FINISHED// (TRANSMISSION FINISHED not null)
       WITHIN TRANSMISSION FINISHED, SORT BY: BATCH TRACKING//
       BATCH TRACKING SUB-FIELD: BATCH CONTROL ID// (BATCH CONTROL
       ID not null)
       WITHIN BATCH CONTROL ID, SORT BY: BATCH TRACKING//
       BATCH TRACKING SUB-FIELD: MESSAGE CONTROL ID// (MESSAGE
       CONTROL ID not null)
```

The SD-PAIT PATIENT HL7 LOCATION template sorts patient appointments by their
APPT DATE:

```
SD-PAIT PATIENT HL7 LOCATION  OCT 05, 2004@09:59  USER #0
SORT BY: @PATIENT//
PATIENT SUB-FIELD: APPT DATE//    (User is asked range)
```

The SD-PAIT PEND EXCL FUTURE template sorts pending appointments in APPT DATE
order to be evaluated for possible finalizing:

```
SD-PAIT PEND EXCL FUTURE      APR 06, 2004@15:10  USER #0
                                        '' Print Template always used
```

```
SORT BY: PATIENT//

PATIENT SUB-FIELD: RETENTION FLAG// (RETENTION FLAG equals Y (YES –
to be sent w
hen 'Final'))

     WITHIN RETENTION FLAG, SORT BY: PATIENT//
     PATIENT SUB-FIELD: APPT DATE//    (User is asked range)
     WITHIN APPT DATE, SORT BY: PATIENT//
     PATIENT SUB-FIELD: DATE APPT MADE// (DATE APPT MADE from Sep
     1,2002)
     WITHIN DATE APPT MADE, SORT BY: PATIENT//
     PATIENT SUB-FIELD: APPOINTMENT TYPE// (APPOINTMENT TYPE not
     null)
     WITHIN APPOINTMENT TYPE, SORT BY: PATIENT//
     PATIENT SUB-FIELD: EVENT REASON// (EVENT REASON not null)
```

The SD-PAIT REJECTED APPT template sorts appointments in Pending status that were rejected and have a rejection code to be addressed by the site before the next transmission:

```
SD-PAIT REJECTED APPT            APR 15, 2004@16:02  USER #0
'' Print Template always used
SORT BY: PATIENT//
PATIENT SUB-FIELD: RETENTION FLAG// (RETENTION FLAG equals Y (YES –
to be sent when 'Final'))

     WITHIN RETENTION FLAG, SORT BY: PATIENT//
     PATIENT SUB-FIELD: ERROR MESSAGE// (ERROR MESSAGE not null)
     WITHIN ERROR MESSAGE, SORT BY: PATIENT//
     PATIENT SUB-FIELD: PATIENT// (PATIENT not null)
     WITHIN PATIENT, SORT BY: PATIENT//
     PATIENT SUB-FIELD: APPT DATE// (APPT DATE not null)
```

The SD-PAIT TRANS SUMMARY template sorts transmitted batches in an order of their transmission date.

```
SD-PAIT TRANS SUMMARY          JAN 27, 2004@13:42  USER #0
SORT BY: RUN DATE//    (User is asked range)
```

3.2   Mail Group

IRM staff who support PAIT should be members of the SD-PAIT mail group. Members will receive the completion message after each bi-monthly transmission and error bulletins from the Forum server. Sample showing PAIT mail group entry in the Mail Group file (#3.8).

```
NAME: SD-PAIT               TYPE: public
  REFERENCE COUNT: 566     LAST REFERENCED: OCT 19, 2009
  COORDINATOR: WOLF,ED
MEMBER: WOLF,ED             TYPE: INFO
MEMBER: LANIGAN,VASSER      TYPE: INFO
MEMBER: GREENWOOD,OWAIN
MEMBER: POSTMASTER
DESCRIPTION: Mail group to receive PAIT HL7 messages
ORGANIZER: WOLF,ED
```

3.3   Routines

```
SDRPA00 ;BP-OIFO/OWAIN,ESW - Patient Appointment Information
```

```
SDRPA02 ;bp-oifo/swo pait utils
SDRPA04 ;BP-OIFO/ESW - SDRPA00 continuation PAIT -
SDRPA05 ;BP-OIFO/ESW - Evaluate appointment status for HL7
SDRPA06 ;bp-oifo/swo pait hl7 Ack handling
SDRPA07 ;BP-OIFO/ESW - APPOINTMENT BATCH TRANSMISSION BUILDER;
SDRPA08 ;BP-OIFO/OWAIN,ESW - Patient Appointment Data
SDRPA09 ;BP-OIFO/SWO,ESW - rejection utility
SDRPA20 ;BPOI/ESW - Determine Admission Type for PAIT
```

Invoked Routines:

```
^%DT
^%DTC          NOW^%DTC
^%
$$S^%ZTLOAD
STAT^%ZTLOAD
$$CVEDT^DGCV
^DIC
FILE^DICN
YN^DICN
^DIE
^DIK
DT^DILF
$$GET1^DIQ
GETS^DIQ
^DIR
INIT^HLFNC2
MSH^HLFNC2
GENERATE^HLMA
CREATE^HLTF
$$GETICN^MPIF001
$$STATUS^SDAM1
GETAPPT^SDAMA201
$$SDAPI^SDAMA301
$$EXAE^SDOE
GETGEN^SDOE
MSGT^SDRPA04
DEM^VADPT
$$EN^VAFHLPID
EN^VAFHLZCL
EN1^VAFHLZEL
ENTER^VAFHLZMH
$$SITE^VASITE
$$DT^XLFDT
$$FMADD^XLFDT
$$FMTE^XLFDT
$$HL7TFM^XLFDT
$$HTE^XLFDT
$$HTFM^XLFDT
$$NOW^XLFDT
$$HLNAME^XLFNAME
^XMD
EN^XUTMDEVQ
```

Global Variables:

```
^DIC(19
^DIC(19.2
^DPT(
^DPT("ASADM"
^GMR(123
```

```
^HLCS(870
^SC(
^SCE(
^SCPT(404.472
^SDWL(409.6
^TMP("SDDPT"
^TMP("SDRPA06"
^TMP($J
^XTMP("SDRPA-"
```

Routines used only once in patch SD*5.3*376 to clean file 409.6:

```
SDRPA10
SDRPA11
SDRPA12
SDRPA13
SDRPA14
SDRPA15
SDRPA16
SDRPA17
SDRPA18
```

3.4 Exported VistA Options

```
SD-PAIT ACK SUMMARY              Acknowledgement Summary
SD-PAIT MANUAL BATCH REJECT      Manual Batch Reject
SD-PAIT MANUAL TRANSMISSION      Manual Startup PAIT Transmission
SD-PAIT PATIENT HL7 LOCATION     Patient HL7 Location
SD-PAIT PENDING                  Pending Transmissions
SD-PAIT REJECTED                 Rejected Transmissions
SD-PAIT REPAIR                   SD-PAIT Last Run Repair
SD-PAIT REPORTS                  PAIT Reports Menu
SD-PAIT TASKED TRANSMISSION      Taskman PAIT Transmission
SD-PAIT TRANSMISSION SUMMARY     Transmission Summary
```

See the PAIT User Manual for SD-PAIT option descriptions.

3.4.1   Protocols

The protocols below are part of the HL7 configuration for PAIT:

```
NAME: SD-PAIT-EVENT
ITEM TEXT: PAIT TRANSMISSION EVENT    TYPE: event driver
CREATOR: RYAN,DOLORES G               TIMESTAMP: 60295,55882
SENDING APPLICATION: SD-SITE-PAIT     RECEIVING APPLICATION: SD-AITC-PAIT
TRANSACTION MESSAGE TYPE: SIU         EVENT TYPE: S12
LOGICAL LINK: SD-PAIT                 ACCEPT ACK CODE: AL
APPLICATION ACK TYPE: AL              VERSION ID: 2.4
RESPONSE MESSAGE TYPE: ACK
RESPONSE PROCESSING ROUTINE: D ACK^SDRPA06
SENDING FACILITY REQUIRED?: NO        RECEIVING FACILITY REQUIRED?: NO
SUBSCRIBERS: SD-PAIT-SUBS

NAME: SD-PAIT-SUBS
ITEM TEXT: SC PAIT SUBSCRIBERS        TYPE: subscriber
CREATOR: DFFFF.HHHHH         TIMESTEMP: 60295,55882
RECEIVING APPLICATION: SD-AITC-PAIT   EVENT TYPE: S12
LOGICAL LINK: SD-PAIT                 RESPONSE MESSAGE TYPE: ACK
SENDING FACILITY REQUIRED?: YES       RECEIVING FACILITY REQUIRED?: YES
SECURITY REQUIRED?: NO
```

3.4.2   HL7 Application Parameters

This VistA file contains one entry for the AITC application and another for the local facility application:

```
NAME: SD-AITC-PAIT
ACTIVE/INACTIVE: ACTIVE              FACILITY NAME: 200
COUNTRY CODE: USA


NAME: SD-SITE-PAIT
ACTIVE/INACTIVE: ACTIVE              FACILITY NAME: 500
COUNTRY CODE: USA
```

The Facility Name contains a three digit station number. The station number for the AITC entry is 200, and each facility must use its own unique 3-digit station number on the SD-SITE-PAIT entry.

3.4.3   HL Logical Link

See the sections above for additional information on the SD-PAIT HL Logical Link configuration.

3.4.4   Background Job

- SD PAIT Tasked Transmission – See the PAIT User Manual for additional information on this subject
- Security Keys
  - o None
- Bulletins
  - o PAIT does not use the bulletin features of MailMan. Although messages formatted similarly to bulletins are sent, they are created outside of the bulletin feature.

3.4.5   Database Integration Agreements (DBIAs)

```
4495    NAME: DBIA4141-D
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: SCHEDULING
```

A request to subscribe to the following DBIA is in process:
```
 752    NAME: DBIA263-D
  CUSTODIAL PACKAGE: REGISTRATION                          Albany
SUBSCRIBING PACKAGE: INCOME VERIFICATION MATCH             Birmingham
                     MASTER PATIENT INDEX VISTA
                   CLINICAL INFO RESOURCE NETWORK
```

Section 4   PAIT Processing on Forum Server

The transmission process involves several steps and makes use of new technology – the VIE.

- Transmission from VistA to a local VIE
- Transmission from a local VIE to the clustered VIE at AITC
- Transmission and conversion of data to AITC to create VSSC files
- Message acknowledgements and tracking

PAIT uses the server functionality of VA Mailman on the Forum Server. PAIT, Vitria and AITC tracking bulletins with acknowledgements notification are received and processed. Selected data elements from transmission and acknowledgement messages are parsed and filed in the PAIT TRANSMISSION LOG (file # 409.8) hosted on Forum. This file contains data elements extracted from messages sent to Forum from VistA PAIT transmissions.

The Forum Server option SD-PAIT-SERVER accepts messages generated by PAIT bi-monthly appointment data extraction and transmission:

```
NUMBER: 2931847                         NAME: SD-PAIT-SERVER
  MENU TEXT: SD-PAIT Message Server      TYPE: server
  DESCRIPTION:   This option server handles incoming status mail messages
 regarding patch Patient Appointment Information Transmission (PAIT).
  ROUTINE: SDRPA01                        SERVER ACTION: RUN IMMEDIATELY
  SERVER REPLY: NO REPLY (DEFAULT)
  UPPERCASE MENU TEXT: SD-PAIT MESSAGE SERVER
```

The PAIT options, routines and files that exist on Forum do not exist at the sites.

4.1   PAIT Transmission Log File on Forum

The data dictionary for the PAIT Transmission Log File, stored on Forum in ^SDWL(409.8, is displayed below.

```
BRIEF DATA DICTIONARY #409.8 -- PAIT TRANSMISSION LOG FILE
                                             FEB 24,2010@13:52:33  PAGE 1
SITE: WASHINGTON ISC   UCI: FOR,ROU
-------------------------------------------------------------------------

DATE/TIME                     409.8,.01    DATE


MESSAGE TYPE                  409.8,.02    SET
                                           'A' FOR ACKNOWLEDGMENT;
                                           'B' FOR BACKGROUND JOB COMPLETE;
                                           'M' FOR MISSING REPORT;
                                           'T' FOR TRANSMITTED REPORT;
                                           'C' FOR CLEAN-UP;
                                           'O' FOR OUTGOING BATCH;
                                           'S' FOR STARTED TRANSMISSION;
                                           'U' FOR UPLOAD MVS;
```

SITE NUMBER	409.8,.03	FREE TEXT
LOG NUMBER	409.8,.04	FREE TEXT
RUN COMPLETION DATE	409.8,.05	DATE
# OF BATCHES	409.8,.06	FREE TEXT
# OF APPOINTMENTS	409.8,.07	FREE TEXT
IP ADDRESS	409.8,.071	FREE TEXT
BATCHES GENERATED	409.8,.08	FREE TEXT
BATCHES SENT	409.8,.09	FREE TEXT
LAST SCAN DATE	409.8,.091	DATE
STARTED DATE	409.8,.092	DATE
TRANSMISSION START	409.8,.093	DATE
TASK NUMBER	409.8,.094	FREE TEXT
STATUS	409.8,1	FREE TEXT
HL7 MESSAGE ID	409.8,2	FREE TEXT
BATCH CONTROL ID	409.8,3	FREE TEXT
RUN ACK STATUS	409.8,4	FREE TEXT
ACKS COMPLETE	409.8,5	SET '0' FOR NO; '1' FOR YES;
MISSING SITES Multiple	409.8,6	409.86
MISSING SITE #	409.86,.01	FREE TEXT
SITE NAME	409.86,.02	FREE TEXT
REPORT DATE	409.86,.03	DATE
TRANSMITTED SITES Multiple	409.8,7	409.87
TRANSMITTED SITE #	409.87,.01	FREE TEXT
TOTAL RECORDS	409.87,.02	FREE TEXT
TOTAL BATCHES	409.87,.03	FREE TEXT
REPORT DATE	409.87,.04	DATE
SITE NAME	409.87,.05	FREE TEXT
BATCH ID Multiple	409.87,.06	409.871
BATCH ID	409.871,.01	FREE TEXT

```
  REJECTED RECORDS          409.87,.07     NUMBER

OUTGOING BATCH              409.8,8        409.88
  Multiple

  OUTGOING BATCH SITE #     409.88,.01     FREE TEXT

  SITE NAME                 409.88,.02     FREE TEXT

  TOTAL BATCHES             409.88,.03     FREE TEXT

  BATCH ID                  409.88,.04     409.881
   Multiple

    BATCH ID                409.881,.01    FREE TEXT

  REPORT DATE               409.88,.05     DATE

MVS UPLOAD                  409.8,9        409.89
   Multiple

  UPLOAD SITE #             409.89,.01     FREE TEXT
  SITE NAME                 409.89,.02     FREE TEXT

  BATCHES UPLOADED          409.89,.03     FREE TEXT

  REPORT DATE               409.89,.04     DATE

  TOTAL REJECTIONS          409.89,10      NUMBER
```

Table 4-2 gives a detailed description of some of the key fields used for tracking in the PAIT Transmission Log file on Forum

Table 4-2: Log File Field Names and Descriptions

Field Number	Field Name	Field Description
.01	Date/Time	This field records the date/time a transmission mail bulletin is received by the Forum Server option SD-PAIT SERVER.
.02	Message Type	'A' for Acknowledgment 'B' for Background Job Complete 'M' for Missing Report 'T' for Transmitted Report 'C' for Clean-Up 'O' for Outgoing Batch 'S' for Started Transmission 'U' for Upload MVS
.03	Site Number	This field records the three-digit site number and extension, if any.
.04	Log Number	This field records the log entry number of the transmission. This is the run entry number of the multiple field in file 409.6.
.05	Run Completion Date	This field records the date that the PAIT background task completed running at the site. This is the Transmission Finished field (#1.5) of 409.6 file.
.06	# of Batches	This field records the number of batch messages transmitted from the site. *Only applies to Message Type B*

.07	# of Appointments	This field records the number of appointments included in the batch message. *Only applies to Message Type B*
.071	IP Address	This field records the IP address of the Vitria Interface Engine at the PAIT transmission site.
.08	Batches Generated	This field records the number of HL7 messages generated by the PAIT transmission and recorded in SD-PAIT Logical Link. *Only used by Message Type B*
.09	Batches Sent	This field records the number of messages sent by HL7 for the PAIT transmission and recorded in the SD-PAIT Logical Link. *Only used by Message Type B*
.091	Last Scan Date	The last scanned date indicates the appointment creation date for which all appointments were fully scanned and transmitted. This date is a basis to continue with the followed-up transmission.
.092, .093	Started Date and Transmission Start	Started Date and Transmission Start show when PAIT started.
10	Total Rejections	This field is for recording the total of number of site record rejections.
N/A	Input Templates	SD-PAIT TL Ack Status SD-PAIT TL Acks Complete SD-PAIT TL All Type SD PAIT TL Background Job SD-PAIT TL Clean SD-PAIT TL Missing SD-PAIT TL Missing AITC SD-PAIT TL Not Complete SD-PAIT TL Transmitted AITC

4.2   PAIT Troubleshooting

After successful completion of the bi-monthly PAIT transmission, members of the SD-PAIT mail group should receive a PAIT BACKGROUND JOB MailMan completion bulletin confirming success. If this bulletin is not received after the scheduled task finishes or if an error occurs, then a Remedy ticket is generated by the VASD based on a bulletin send to the VASD from the Forum Server.

All completion bulletins are also sent to the Forum Server where Product Support (PS) staff can verify that the transmission has finished. If an error or another problem occurs, Information Resource Management (IRM) should not start the next PAIT task until PS staff review the problem and take or advise corrective action.

If a problem occurs, the site should check the error trap, looking at the time when the PAIT task terminated. The cause of the error has to be addressed before running the SD-PAIT REPAIR option, and restarting PAIT.

4.2.1　From AITC

On the 5th and 19th of every month, AITC sends an email bulletin/report listing all sites from which patient appointment information transmissions were received. This report includes the facility, station number and name. The report is also sent from AITC to the Forum Server and, if the number of rejected appointments for any site is greater than 50, another Remedy ticket is generated based on a bulletin sent to the VASD.

```
From: Z900SERVER@MAIL.VA.GOV [mailto:Z900SERVER@MAIL.VA.GOV]
Sent: Thursday, November 19, 2009 2:35 PM
Subject: AITC PAIT TRANSMITTED SITES

RECORDS TRANSMITTED 11/19/09
```

	STATION	BATCHES	RECORDS	REJECTS
358	MANILA	1	2893	0
402	TOGUS	14	63068	7
405	WHITE RIVER JUNCTION	5	20190	0
436	FORT HARRISON	5	23870	7
437	FARGO	6	29512	7
438	SIOUX FALLS	5	22320	0
442	CHEYENNE	4	18018	3
459	HONOLULU	3	13874	5
460	WILMINGTON	5	20288	4
463	ANCHORAGE	3	10946	0
501	N.MEXICO VA HS	10	47503	9
502	ALEXANDRIA	5	21931	0
503	ALTOONA	4	17867	3
504	AMARILLO VA HS	7	25098	9
506	ANN ARBOR	10	45522	16
508	DECATUR	13	61307	0
509	AUGUSTA	6	27474	0
512	BALTIMORE	15	73375	23
515	BATTLE CREEK	14	60454	10
516	BAY PINES	25	123815	9
517	BECKLEY	8	33404	28
518	BEDFORD	8	30475	0
519	W.TEXAS VA HS	2	9746	0
520	BILOXI	12	59018	3
521	BIRMINGHAM	10	45246	22
523	BOSTON	13	61031	4
526	BRONX	5	24867	32
528	BUFFALO	33	163874	3
529	BUTLER	6	21750	0
531	BOISE	4	18505	19
534	CHARLESTON	8	38071	1
537	CHICAGO WESTSIDE	12	56317	1
538	CHILLICOTHE	5	21433	0
539	CINCINNATI	10	45839	5
540	CLARKSBURG	6	25206	0
541	CLEVELAND	32	157145	2
542	COATESVILLE	3	11896	0
544	COLUMBIA	13	60081	14
546	MIAMI	21	100766	7
548	W PALM BEACH	24	114022	2
549	DALLAS	21	100530	7

550	VA ILLIANA HEALTH CARE SYSTEM	7	33890	2
552	DAYTON	6	28769	0
553	DETROIT VA MEDICAL CENTER	8	39412	7
554	DENVER	10	47296	2
556	NORTH CHICAGO	6	28382	4
557	DUBLIN	4	19217	4
558	DURHAM	10	46872	4
561	EAST ORANGE	11	52359	2
562	ERIE	5	22421	1
564	FAYETTEVILLE	18	89956	2
565	FAYETTEVILLE	8	36523	0
568	FORT MEADE	5	24458	0
570	FRESNO	4	19230	0
573	GAINESVILLE VA FACILITY NURSING HOME	28	138169	6
575	GRAND JUNCTION	5	18297	0
578	HINES	11	53210	0
580	HOUSTON	21	101051	18
581	HUNTINGTON	6	29727	2
583	INDIANAPOLIS	14	66695	4
585	IRON MOUNTAIN	4	16095	4
586	JACKSON	8	35322	18
589	VA HEARTLAND - WEST, VISN 15	27	132231	4
590	HAMPTON	7	32764	6
593	VA SOUTH NEVADA	8	35926	0
595	LEBANON	9	41465	1
596	LEXINGTON	7	33352	0
598	LITTLE ROCK	11	54847	2
600	LONG BEACH	9	44893	3
603	LOUISVILLE	8	38493	5
605	LOMA LINDA	13	63374	4
607	MADISON	8	35359	4
608	MANCHESTER	4	17990	0
610	NORTHERN HCS	10	49690	0
612	MARTINEZ	13	61623	4
613	MARTINSBURG	8	37082	1
614	MEMPHIS	9	43469	2
618	MINNEAPOLIS	18	87425	10
619	MONTGOMERY	8	37651	2
620	VA HUDSON VALLEY HEALTHCARE SYSTEM (MON	7	33414	13
621	MOUNTAIN HOME	9	41958	8
623	MUSKOGEE	10	47496	38
626	NASHVILLE	14	66816	6
629	NEW ORLEANS	11	45970	10
630	NEW YOR	22	104612	8
631	NORTHAMPTON	3	12512	4
632	NORTHPORT LI	7	34688	11
635	OKLAHOMA CTY	192	926304	24
636	OMAHA	22	107568	6
637	ASHEVILLE	12	52668	10
640	PALO ALTO	11	53296	3
642	PHILADELPHIA	16	79632	2
644	PHOENIX	10	48525	3
646	PITTSBURGH(UD	10	45822	0
648	PORTLAND	10	47381	0
649	N.ARIZONA VA HS	10	45836	4
650	PROVIDENCE	6	25412	1
652	RICHMOND	10	48938	2

653	VA ROSEBURG HCS	4	16470	4
654	VA RENO	7	34674	7
655	SAGINAW	6	26079	0
656	ST CLOUD	12	56445	1
657	VA HEARTLAND - EAST, VISN 15	19	92538	5
658	SALEM	7	34859	6
659	SALISBURY	20	95373	9
660	SALT LAKE CITY	6	25735	17
662	SAN FRANCISCO	8	35149	5
663	VA PUGET SOUND HEALTHCARE SYSTEM	13	60648	5
664	SAN DIEGO	11	53317	9
666	SHERIDAN	3	12051	1
667	SHREVEPORT	8	37578	8
668	SPOKANE	5	20153	1
671	ALM MEM VA MEDICAL CENTER	20	96171	11
672	SAN JUAN	20	96451	4
673	TAMPA	22	107336	125
674	TEMPLE	19	94182	3
675	VA MEDICAL CENTER ORLANDO	18	87650	5
676	TOMAH	4	16268	0
678	S.ARIZONA VA HS	10	46186	3
679	TUSCALOOSA	3	11456	11
687	WALLA WALLA	2	8141	0
688	WASHINGTON	8	37499	7
689	WEST HAVEN	12	57627	5
691	GREATER LOS ANGELES HEALTHCARE SYSTEM	18	87870	7
692	VA SOUTHERN OR REHAB, CLINIC WHITE CITY	4	16406	0
693	WILKES BARRE	9	44078	1
695	MILWAUKEE	13	63207	2
756	EL PASO VA HS	7	30525	0
757	COLUMBUS (IOC)	6	29106	0

TOTAL NUMBER OF STATIONS TRANSMITTED OUT OF 129: 129

4.2.2 Product Support

Upon the receiving a Remedy Ticket, PS can run the Completed 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, PS will contact the site to determine why the site did not run the transmission task. Based on the reason, PS may need to contact other groups to provide assistance. In the case the report indicates there was activity, PS may need to contact the Messaging and Interface Support (M&IS) team for assistance.

URL to review the Vitria IE activity reports for verification of data available on the Forum Server.

UserID and password are required to access the M&IS reports. Access is restricted.
- URL: http://vhaAITCviev4:8080/ciev/hbase

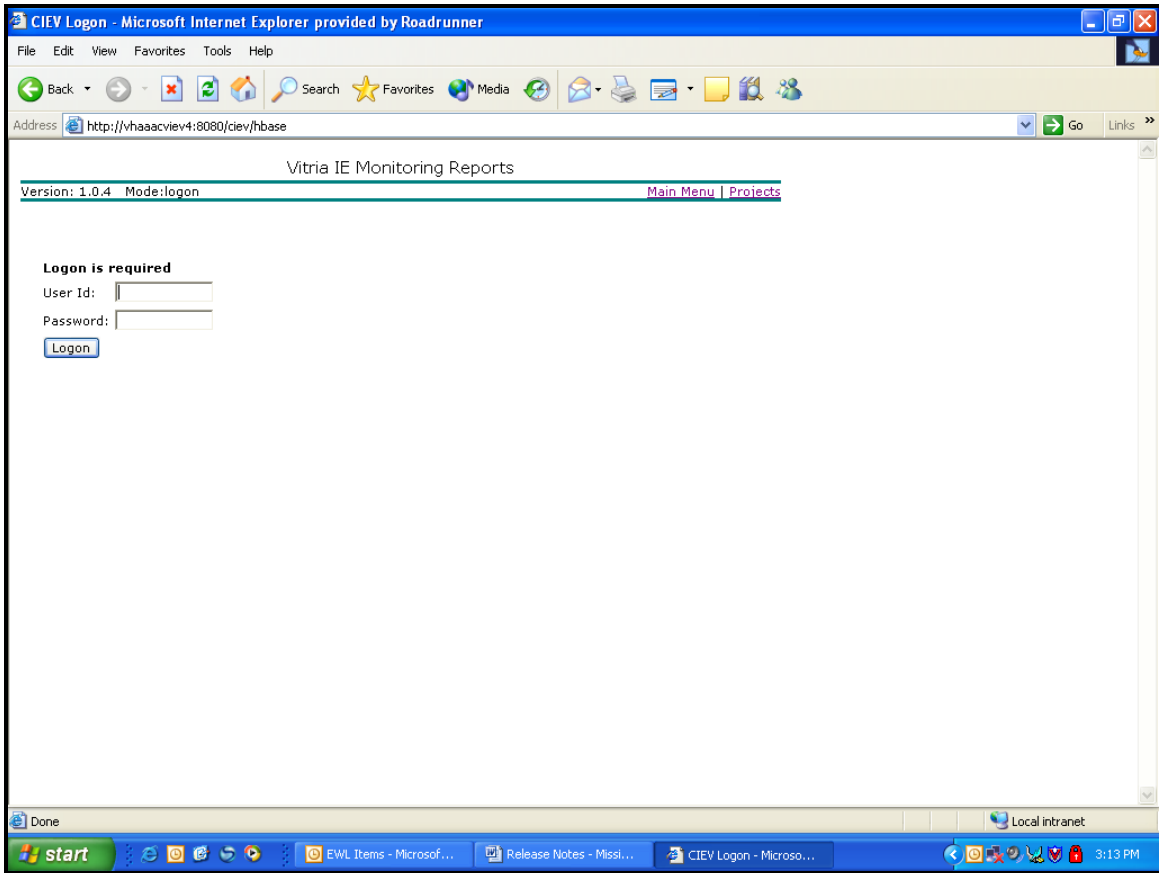Figure 4-1: Vitria IE Monitoring Reports Logon

There are two reports that show patient appointment transmission activity to AITC. The first, Remote Outgoing Batch Tallies, displays activity at the VistA site's local Vitria IE. This report displays the site's station number and name, the most recent date of transmission activity, and the batch count.
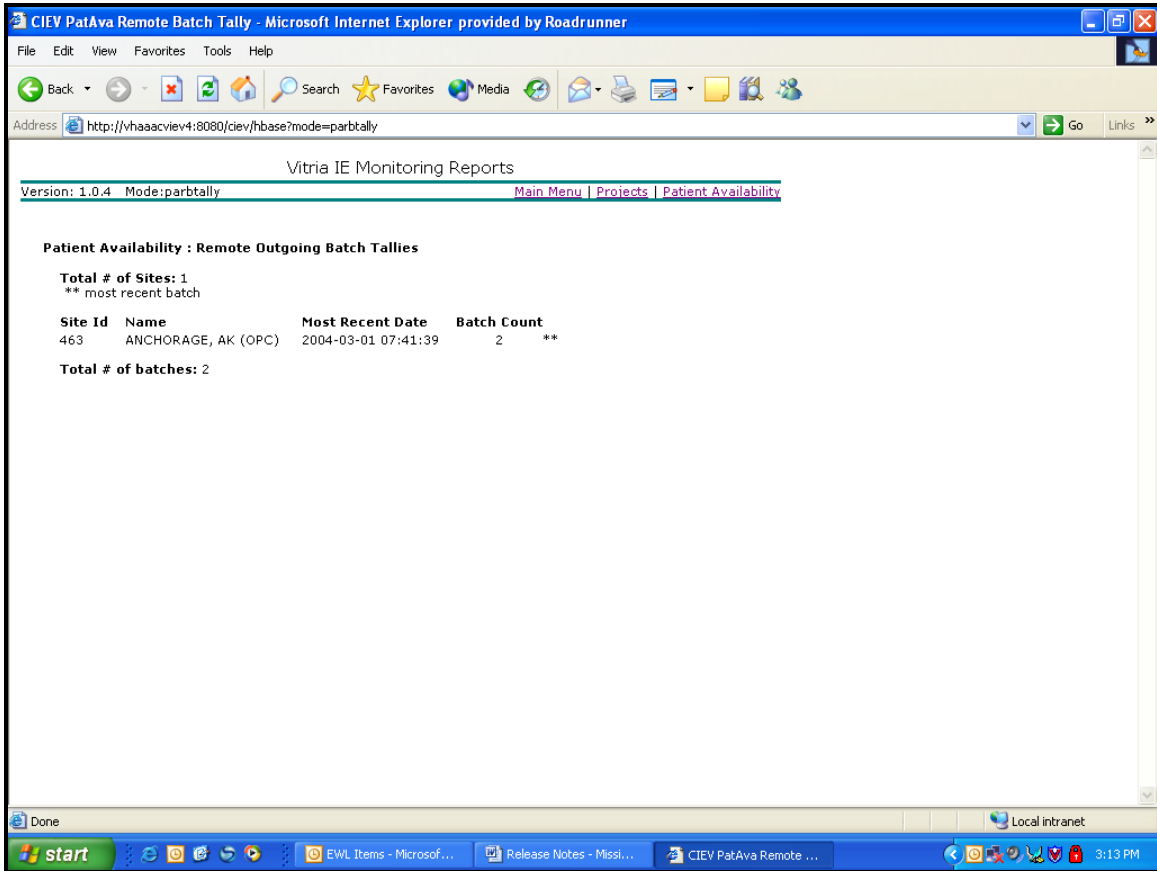

Figure 4-2: Remote Outgoing Batch Tallies

The second report, File Uploads to MVS, shows the files transferred to the AITC mainframe. It includes the site station number, name, and batch count for the file transfer. It should be noted that the batch count indicated in a file sent to AITC may not be the total batch count for that site because more files may be waiting to be sent, or data may be split into several files that contain a combination of batches from different sites.
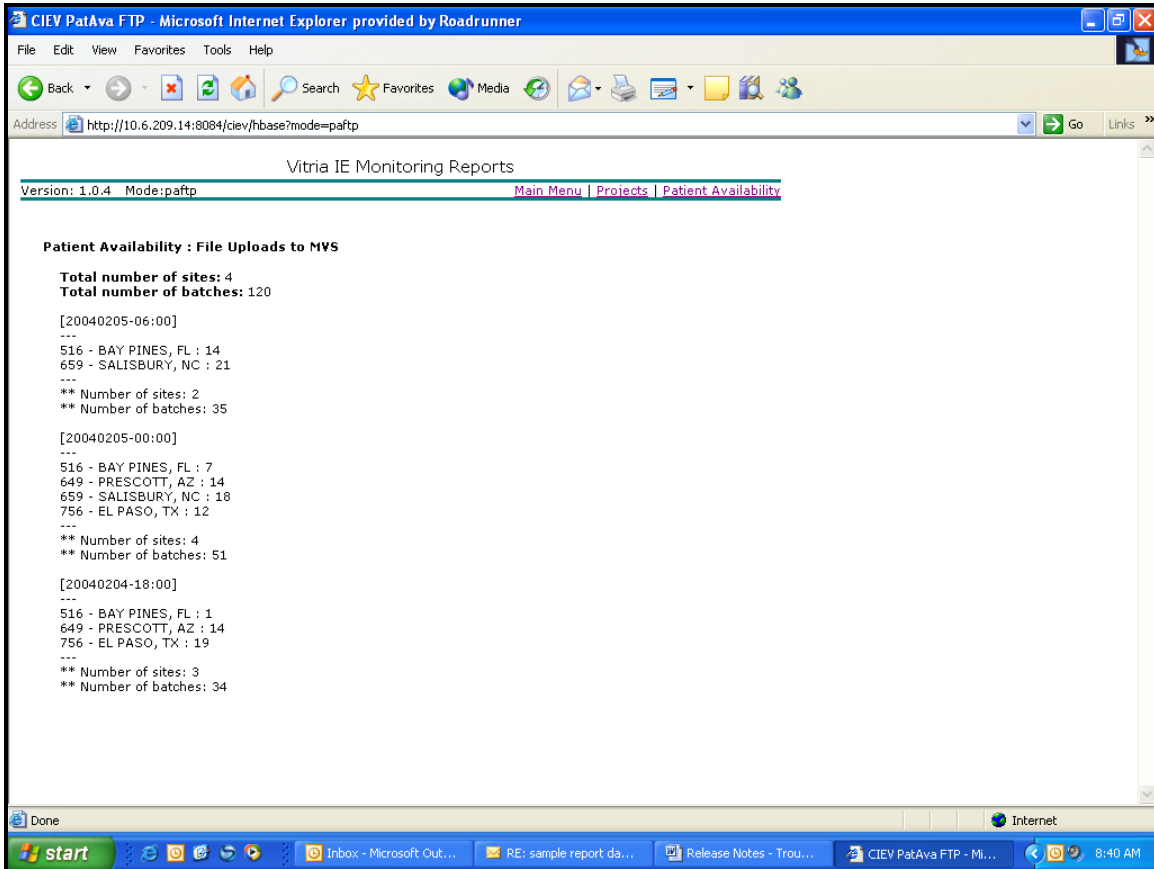
Figure 4-3: File Uploads to MVS

Examination of all transferred files will need to be performed and the number of batches counted for all files to determine if the site's total batch count matches the count on the Forum Server.

- If the Forum PAIT reports indicate that the site did not generate any batches, PS will need to contact the site to find the responsible person who can determine why the program did not run and start the task.
- If the reports on the Forum Server indicate the site generated batches but the batches were not transmitted and the Vitria IE reports do not indicate activity, support from Vitria IE will be needed.
- If the Forum reports and the Vitria IE reports indicate the site did transmit, but acknowledgments were not received, PS will need to contact AITC for assistance.

The Acks from MVS report shown in Figure 4-4 lists all acknowledgements sent by AITC.

Figure 4-4: Acks from MVS

The Remote Incoming Ack Tallies report may be used to verify acknowledgements accepted by VistA sites from the IE.

Figure 4-5: Remote Incoming Ack Tallies

4.3 VistA Communication Problems

Veterans Health Administration (VHA) VASD states:

If there is an indication of a problem in communicating with the Local Vitria IE, the PAIT task will send a bulletin from VistA to the VASD with a Transmission Summary Report. The problem may be detected immediately after PAIT generates all batches. At that point, the PAIT transmission finishes but the generated batch messages may be waiting in the HL7 queue because they cannot be sent to the local Vitria IE. The VASD will receive the following report with a warning and a summary of batches created vs. batches sent.

Upon receipt of this notification, VASD will create a Remedy Ticket for PS to begin investigating. PS should contact the site and can check the M&IS website to determine what caused the communication breakdown. If there is a VIE problem the PS VIE team can troubleshoot.

HL7 System Monitor:
All outgoing HL7 messages are sent over the SD-PAIT Logical Link. Activity on this link can be seen via the System Monitor Utility of the HL7 menu in VistA:

Figure 4-6: HL7 System Monitor

The example in Figure 4-6 shows 12 messages on the TO SEND column but only 1 message under the SENT column. If the SENT column does not increment to match the TO SEND column, it may be necessary to stop and restart the SD-PAIT link through the Start/Stop Links [HL START] option on the Filer and Link Management Options menu of the VistA HL7 application.

Patient HL7 Location
SD-PAIT PATIENT HL7 LOCATION   Patient HL7 Location

This option lists HL7 message ID numbers for individual patient appointments recorded in the Patient Appointment Info Log (file #409.6) for a selected date range.

```
      CHOOSE 1-5: 4  SD-PAIT PATIENT HL7 LOCATION      Patient HL7 Location
      Patient HL7 Location
      * Previous selection: APPT DATE from Jan 3,2006 to Jan 3,2006@24:00
      START WITH APPT DATE: Jan 3,2006//   (JAN 03, 2006)
      GO TO APPT DATE: Jan 3,2006//   (JAN 03, 2006)
      DEVICE:   UCX/TELNET    Right Margin: 80//
      SD-PAIT PATIENT HL7 LOCATION               JAN 27,2009  16:28    PAGE 1

                                              HL7
      PATIENT               APPT DATE           MESSAGE
      --------------------------------------------------------------------------

      AJJDJFD,CNDFH         JAN  3,2006  13:00   500127809-13
```

The HL7 menu can then be used to do a message search on the message ID within the SD-PAIT logical link:

Option: HL MAIN MENU   HL7 Main Menu

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

```
Select HL7 Main Menu Option: Message Management Options

        PRG    Purge Messages
        PJM    Purge jobs monitoring
        LOG    View Transmission Log (TCP) only
        PTX    Awaiting/Pending Transmission Report (non-TCP)
        FTX    Failed Transmission Report (non-TCP)
        ELOG   Event Log
        REQ    Message Requeuer (non-TCP)
        OLD    HL7 V1.5 OPTIONS ...

        Select Message Management Options Option: LOG  View Transmission Log (TCP only)

        Search Transmission Log

        Select one of the following:

                M  Message Search
                P  Pending Transmissions
                E  Error Listing
                Q  Quit (also up arrow, or <RETURN>)

Selection: Message Search


                        Start/Stop Time Selection


  Enter START Date and Time. Date is required.

Enter a date and optional time: T// 010110@12:01A  (JAN 01, 2010@00:01:00)

  Enter END Date and Time. Date is required.

Enter a date and optional time: NOW//    (FEB 22, 2010@13:50:01)

MESSAGE ID #          D/T Entered   Log Link   Msg:Evn IO Sndg Apl Rcvr Apl
500132283             010110.070056  SD-PAIT    ACK:S12 OT SD-SITE- SD-AAC-P
500135755             011510.070004  SD-PAIT    ACK:S12 OT SD-SITE- SD-AAC-P
500139986             020110.070005  SD-PAIT    ACK:S12 OT SD-SITE- SD-AAC-P
500142924             021510.070036  SD-PAIT    ACK:S12 OT SD-SITE- SD-AAC-P


HYPER-TXT|<PF1>H=Help <PF1>E=Exit| Line>     4 of 4      Screen>     1 of 1
```

Section 5   HL7 Interface Specification for Patient Appointment Information Transmission

5.1   Introduction

The PAIT application uses the abstract message approach and encoding rules specified by HL7. HL7 is used for communicating data associated with various events which occur in health care environments.

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

5.2   Message Content

Data sent in HL7 messages will be limited to the information that can be processed by the AITC, with the exception of the PID and ZPD segments, which will be populated using the nationally supported VistA call. The data sent is limited to what is available in VistA. Table 5-1 describes the data fields and HL7 mappings.

Table 5-1: Data Fields and HL7 Mappings

Data item	Length	Type	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	The internal number of the patient from within the Patient file.	PID.3
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
Current SC percentage	3	Numeric	Current service connected percentage.	ZSP.3
Date Appointment Created	8	Date	The date the appointment was created.	SCH.11
Desired Appointment Date	8	Date	The date the appointment was requested to take place.	SCH.11
Appointment Date	12	Date/time	The date the appointment was scheduled to be kept.	SCH.11

Appointment status	3	Text	See Table 5-26.	SCH.25
Next Available Request Flags	1	Numeric	See Table 5-24.	SCH.7
Cancellation Date	12	Date/time	If the appointment was cancelled by the clinic or the patient, the date of cancellation.	SCH.11
Reschedule Date	12	Date/time	The date an appointment was rescheduled for without auto-rebooking.	SCH.11
Auto-rebook Flag	1	Numeric	See Table 5-24.	SCH.7
Auto-rebook Date	12	Date/time	Date of the auto-rebooked appointment.	SCH.11
New to Facility/Clinic Flag	1	Text	NTF if the patient did not have a prior appointment at this facility in the past 24 months. SHB or OPN otherwise – see Table 5-21.	PV2.24
Enrollment Priority	1	Alpha numeric	See Table 5-30.	ZEN.9
Service Connection Condition Flag	1	Numeric	See Table 5-28.	ZCL.2
Agent Orange Exposure	1	Numeric	See Table 5-28.	ZCL.2
Ionizing Radiation Exposure	1	Numeric	See Table 5-28.	ZCL.2
Environmental Contaminants	1	Numeric	See Table 5-28.	ZCL.2
Military Sexual Trauma	1	Numeric	See Table 5-28.	ZCL.2
Head and/or Neck Cancer	1	Numeric	See Table 5-28.	ZCL.2
Clinic IEN Number	7	Numeric	Internal Identifier of the Hospital Location for which the appointment was scheduled.	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 for which the appointment was scheduled.	AIL.4
DSS Credit Stop of Clinic	3	Numeric	Credit stop code of the Hospital Location file.	AIL.5
Facility Number	6	Three digit numeric station number plus any modifiers	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 Date	12	Date/time	Date of appointment checkout. It is considered to be a kept appointment.	SCH.11
Appointment Type	3	Alpha	See Table 5-25.	SCH.8
Scheduling Event Reason	3	Alpha	See Table 5-31.	SCH.6
Admission Type	4	Numeric	See Table 5-29.	PV1.4
Consult Request Date	12	Date	The request date and time of the related consult if applicable – the date/time of the Date of Request field (#3) of the Request/ Consultation file (#123).	SCH.11
CV Eligibility	1	Alpha	Combat Veteran Status. See Section 1.2.1 in PAIT User Manual.	ZEL.37
CV End-Date	8	Date	See Section 1.2.2 in PAIT User Manual.	ZEL.38
CV Appointment Indication	2	Numeric	See Section 1.2.3 in PAIT User Manual.	ZCL.2
Military History Type			See Section 1.2.4 in PAIT User Manual. See Table 5-16.	ZMH.2
Service Indicator			See Section 1.2.4 in PAIT User Manual. See Table 5-16.	ZMH.3
Service Separation Date			See Section 1.2.4 in PAIT User Manual. See Table 5-16.	ZMH.4

Note: If the appointment is related to a Service Connected (SC) condition then only Military Sexual Trauma (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.

Table 5-2: SIU Descriptions

SIU	SIU Message Segment	Table
BSH	Batch Header	Table 5-4
{MSH	Message Header	Table 5-3
SCH	Schedule Activity Information	Table 5-11
PID	Patient Identification	Table 5-6
PV1	Patient Visit	Table 5-7
PV2	Patient Visit	Table 5-8
[{AIP}]	Appointment Information - Personnel Resource Segment	Table 5-9
{AIL}	Appointment Information	Table 5-10
[{ZCL}]	VA-Specific Outpatient Classification	Table 5-12
[{ZEN}]	VA Specific Enrollment	Table 5-13
{ZEL}	VA Specific Patient Eligibility	Table 5-15
[{ZMH}]	VA Specific Military History	Table 5-16
{ZSP}}	VA-Specific Service Period	Table 5-14
BTS	Batch Trailer	Table 5-5

5.2.1   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 are generated into a temporary file which is used to create HL7 transmissions in a batch format. As soon as each batch is put into an HL7 transmission queue, the temporary file for that batch is deleted and the process of generating data for transmission continues until all required data is generated and transmitted. This design allows for immediate transmission of each batch as soon as it is generated, and prevents the temporary file from growing excessively before it is transmitted. The process is repeated until all required data is generated and transmitted.

Follow-up transmissions are created starting from the last scanned appointment creation date of the last transmission through the day preceding the task run date. The last scanned date is stored in the Patient Appointment Info Log (file #409.6) and if PAIT was interrupted it may be a date other than expected with normal processing. The SD-PAIT Last Run Repair [SD-PAIR REPAIR] option determines the last scanned date based on which appointments were transmitted and, with previously sent appointments, whether their statuses are final (See Table 5-2). The previously sent appointments are evaluated for possible final transmission from the Patient Transmission Info Log (file #409.6). Appointment entries that were sent with a final status will be deleted after an acknowledgement of the successful transmission is received.

5.2.2   Batch Messages

A batch will be used to transmit patient appointment information. Each batch may contain up to 5,000 messages. One message will represent one patient appointment.

5.2.3   Batch Acknowledgements

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

5.2.4   Batch Lower-Level Protocol

PAIT transmissions use TCP/IP lower level protocol.

5.3   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.

5.3.1   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 and the "{ }" indicates the segment is repeatable. For each message category there will be a list of HL7 standard segments as well as "Z" segments used for the message.

5.3.2   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.

5.3.3   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 is included in a message in this document, the VistA descriptions and mappings will be as specified here, unless otherwise specified in that section.

Table 5-3: Message Header Segment (MSH)

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-AITC-PAIT
4	20	ST				Sending Facility	When originating from facility: Station's facility number
5	30	ST				Receiving Application	SD-AITC-PAIT
6	30	ST				Receiving Facility	200
7	26	TS				Date/Time Of Message	Not used
8	40	ST				Security	Not used
9	7	CM	R		5-22 5-19	Message Type	2 Components Message type Trigger event

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
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

Table 5-4: Batch Header Segment (BSH)

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	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 AITC: SD-ACC-PAIT
4	20	ST				Batch Sending Facility	When originating from facility: Station's facility number when originating from AITC: 200
5	15	ST				Batch Receiving Application	When originating from facility: SD-ACC-PAIT When originating from AITC: SD-SITE-PAIT
6	20	ST				Batch Receiving Facility	When originating from facility: Station's facility number When originating from AITC: 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 Not used P SIU,S12 2.4 5. AL 6. AL
10	80	ST			5-21	Batch Comment	Components Acknowledgement Code Text Message

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
11	20	ST				Batch Control ID	When originating from facility: Automatically generated by VISTA HL7 Package When Originating from AITC: Acknowledgement msg #
12	20	ST				Reference Batch Control ID	When originating from facility: Null When originating from AITC: Batch Control ID of batch message being acknowledged

Table 5-5: Batch Trailer Segment (BTS)

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
1	10	ST				Batch Message Count	Number of messages within batch
2	80	ST				Batch Comment	Not used
3	100	CM		Y		Batch Totals	Not used

Table 5-6: Patient Identification Segment (PID)

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	CM	R			Patient ID (Internal ID)	Component 1. ICN 2. NULL 3. NULL 4. USVHA&&L 5. NI Repetition DFN Null Null USVHA&&L PI
4	12	ST				Alternate Patient ID	Not used
5	48	PN	R			Patient Name	Component Family name Given name Middle initial 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
12	4	ID				County Code	Not used
13	40	TN				Phone Number - Home	Not used
14	40	TN				Phone Number - Business	Not used
15	25	ST				Language - Patient	Not used
16	1	ID				Marital Status	Not used
17	3	ID				Religion	Not used
18	20	CK				Patient Account Number	Not used

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
19	16	ST				SSN Number - Patient	Social security number and pseudo indicator
20	25	CM				Driver's License Number - Patient	Not used
21	20	CK				Mother's Identifier	Not used
22	1	ID				Ethnic Group	Not used
23	25	ST				Birth Place	Not used
24	2	ID				Multiple Birth Indicator	Not used
25	2	NM				Birth Order	Not used
26	3	ID				Citizenship	Not used
27	60	CE				Veterans Military Status	Not used

Table 5-7: Patient Visit Segment (PV1)

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
1	4	SI				Set ID - Patient Visit	Sequential Number
2	1	ID			5-20	Patient Class	Patient Class
3	12	CM				Assigned Patient Location	Not used
4	4	ID			5-21	Admission Type	Refer to Table 5-27 (Purpose of Visit)
5	20	ST				Pre-admit Number	Not used
6	12	CM				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	CM				Temporary Location	Not used
12	2	ID				Pre-admit 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	CM				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
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 Code	Not used
30	8	DT				Transfer to Bad Debt Date	Not used
31	10	ID				Bad Debt Agency Code	Not used
32	12	NM				Bad Debt Transfer Amount	Not used
33	12	NM				Bad Debt Recovery Amount	Not used
34	1	ID				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	CM				Pending Location	Not used
43	12	CM				Prior Temporary Location	Not used
44	26	TS				Admit Date/Time	Not used
45	26	TS				Discharge Date/Time	Not used
46	12	NM				Current Patient Balance	Not used
47	12	NM				Total Charges	Not used
48	12	NM				Total Adjustments	Not used
49	12	NM				Total Payments	Not used

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	VistA Description
50	20	CM				Alternate Visit ID	Not used

Table 5-8: Patient Visit 2 (PV2)

SEQ	LEN	DT	R/	RP/#	TBL#	ITEM#	Element Name	VistA Description
1	80	PL	C			0011	Prior Pending Location	Not used
2	60	CE	O			0012	Accommodation Code	Not used
3	60	CE	O			0013	Admit Reason	Not used
4	60	CE	O			0014	Transfer Reason	Not used
5	25	ST	O			0015	Patient Valuables	Not used
6	25	ST	O			0016	Patient Valuables Location	Not used
7	2	IS	O			0017	Visit User Code	Not used
8	26	TS	O			0018	Expected Admit Date/Time	Not used
9	26	TS	O			0019	Expected Discharge Date/Time	Not used
10	3	NM	O			0071	Estimated Length of Inpatient Stay	Not used
11	3	NM	O			0072	Actual Length of Inpatient Stay	Not used
12	50	ST	O			0073	Visit Description	Not used
13	90	XCN	O			0074	Referral Source Code	Not used
14	8	DT	O			0075	Previous Service Date	Not used
15	1	ID	O			0076	Employment Illness Related Indicator	Not used
16	1	IS	O			0077	Purge Status Code	Not used
17	8	DT	O			0078	Purge Status Date	Not used
18	2	IS	O			0079	Special Program Code	Not used
19	1	ID	O			0070	Retention Indicator	Not used
20	1	NM	O			0071	Expected Number of Insurance Plans	Not used
21	1	IS	O			0072	Visit Publicity Code	Not used
22	1	ID	O			0073	Visit Protection Indicator	Not used
23	90	XON	O			0074	Clinic Organization Name	Not used
24	2	IS	O		5-23	0075	Patient Status Code	New to Facility/ Clinic
25	1	IS	O			0076	Visit Priority Code	Not used
26	8	DT	O			0077	Previous Treatment Date	Not used
27	2	IS	O			0078	Expected Discharge Disposition	Not used
28	8	DT	O			0079	Signature on File Date	Not used
29	8	DT	O			0070	First Similar Illness Date	Not used
30	3	IS	O			0071	Patient Charge Adjustment Code	Not used
31	2	IS	O			0072	Recurring Service Code	Not used
32	1	ID	O			0073	Billing Media Code	Not used
33	26	TS	O			0074	Expected Surgery Date & Time	Not used
34	2	ID	O			0075	Military Partnership Code	Not used
35	2	ID	O			0076	Military Non-Availability Code	Not used
36	1	ID	O			0077	Newborn Baby Indicator	Not used
37	1	ID	O			0078	Baby Detained Indicator	Not used

Table 5-9: Appointment Information Personnel Resource Segment (AIP)

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	C			00763	Segment Action code	Not used
3	80	XCN	C	Y		00913	Personnel Resource ID	Component Provider IEN Family name Given name Middle name or initial Suffix
4	200	CE	R			00907	Resource Role	Provider
5	200	CE	O			00899	Resource Group	Not used
6	26	TS	C			01202	Start Date/Time	Not used
7	20	NM	C			00891	Start Date/Time Offset	Not used
8	200	CE	C			00892	Start Date/Time Offset Units	Not used

Table 5-10: Appointment Information (AIL)

SEQ	LEN	DT	R/O/C	RP/#	TBL#	ITEM#	Element Name	VistA Description
1	4	SI	R			00902	Set ID - AIL	Sequential Number
2	1	ID	C			00763	Segment Action Code	Not used
3	90	PL	C			00903	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		5-33	00904	Location Type	DSS ID Components DSS Clinic ID code (3) Description (40) 'DSS Clinic ID' (13)
5	100	CE	O		5-33	00905	Location Group	DSS credit stop DSS credit stop code (3) Description (40) "DSS Credit Stop" (15)
6	26	TS	C			01202	Start Date/Time	Not used
7	20	NM	C			00891	Start Date/Time Offset	Not used
8	200	CE	C			00892	Start Date/Time Offset Units	Not used
9	20	NM	O			00893	Duration	Not used
10	200	CE	O			00894	Duration Units	Not used
11	10	IS	C			00895	Allow Substitution Code	Not used
12	200	CE	C			00889	Filler Status Code	Not used

Table 5-11: Schedule Activity Information (SCH)

SEQ	LEN	DT	R/O/C	RP/#	TBL#	ITEM#	Element Name	VistA Description
1	75	EI	R			00860	Placer Appointment ID	Sequential Number
2	75	EI	C			00861	Filler Appointment ID	Not used
3	5	NM	C			00862	Occurrence Number	Not used
4	75	EI	O			00863	Placer Group Number	Not used
5	200	CE	O			00864	Schedule ID	Not used
6	3	CE	O		5-29	00883	Event Reason	Component Scheduling Event Reason codes.
7	1	CE	O		5-24	00866	Appointment Reason	Appointment Reason
8	3	CE	O		5-23	00867	Appointment Type	Appointment Type Codes
9	20	NM	O			00868	Appointment Duration	Not used
10	200	CE	O			01304	Appointment Duration Units	Not used
11	200	TQ	O	Y		00884	Appointment Timing Quantity	In the following order: Date Appt Created Desired Date Appt Date (time) Check-out Date (time) Cancellation Date (time) Auto-rebook Date(time) Rescheduled Date(time)
12	48	XCN	O			00874	Placer Contact Person	Not used
13	40	XTN	O			00875	Placer Contact Phone Number	Not used
14	106	XAD	O			00876	Placer Contact Address	Not used
15	80	PL	O			00877	Placer Contact Location	Not used
16	38	XCN	R			00885	Filler Contact Person	Not used
17	40	XTN	O			00886	Filler Contact Phone Number	Not used
18	106	XAD	O			00887	Filler Contact Address	Not used
19	80	PL	O			00888	Filler Contact Location	Not used
20	48	XCN	R			00878	Entered by Person	Not used
21	40	XTN	O			00879	Entered by Phone Number	Not used
22	80	PL	O			00880	Entered by Location	Not used
23	75	EI	O			00881	Parent Placer Appointment ID	Not used
24	75	EI	O			00882	Parent Filler Appointment ID	Not used
25	200	CE	R		5-26	00889	Filler Status Code	Appointment Status

Table 5-12: VA-Specific Outpatient Classification Segment (ZCL)

SEQ	LEN	DT	R/O	RP/#	TBL#	VistA Element Name
1	4	SI	R			Set ID
2	2	ID	R		5-28	Outpatient Classification Type
3	50	ST				Not used

Table 5-13: VA-Specific Enrollment Segment (ZEN)

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			5-30	Enrollment Priority
10	8	DT				Not used

Table 5-14: VA-Specific Service Period Segment (ZSP)

SEQ	LEN	DT	R/O	RP/#	TBL#	VistA Element Name
		SI	1	4		Set ID
2	1	ID	R		5-27	Service Connected
3	3	NM				Service Connected Percentage
4	2	ID				Not Used
5	1	ID				Not Used

Table 5-15: VA-Specific Patient Eligibility Segment (ZEL)

SEQ	LEN	DT	R/O	RP/#	TBL#	VistA Element Name
1	4	SI	R			Set ID
2	2	ID			VA04	Not used
3	16	CK				Not used
4	12	ST				Not used
5	1	ID			VA05	Not used
6	8	NM				Not used
7	40	ST				Not used
8	1	ID			5-27	Not used
9	30	ST				Not used
10	1	ID			VA06	Not used
11	8	DT				Not used
12	8	DT				Not used
13	50	ST				Not used
14	1	ID			5-27	Not used
15	1	ID			5-27	Not used
16	1	ID			5-27	Not used

SEQ	LEN	DT	R/O	RP/#	TBL#	VistA Element Name
17	1	ID			5-27	Not used
18	1	ID			5-27	Not used
19	1	ID			5-27	Not used
20	1	ID			5-27	Not used
21	5	NM				Not used
22	1	ID			VA0022	Not used
23	1	ID			VA0036	Not used
24	8	DT				Not used
25	7	ID			VA0115	Not used
26	8	DT				Not used
27	8	DT				Not used
28	6	NM				Not used
29	1	ID			VA0046	Not used
30	8	DT				Not used
31	8	DT				Not used
32	8	DT				Not used
33	8	DT				Not used
34	8	DT				Not used
35						Not used
36						Not used
37	1	ID			5-27	Combat Veteran
38	8	DT				Combat Veteran Status End Date
39	1	ID			5-27	Not used
40	1	ID			5-27	Not used

Table 5-16: VA-Specific Military History Segment (ZMH)

SEQ	LEN	DT	R/O	RP/#	TBL#	Element Name	Patient (2) File Field or Expression			
1	4	SI	R			Set ID – Military History	Sequential Number	1	4	SI
2	4	IF	R		VA038 (also see table 5-17)	Military History Type	Varies based upon Service. See Table 5-17.	2	4	IF
3	80	CE	R			Service Indicator	Varies based upon Service. See Table 5-17.	3	80	CE
4	29	DR	0			Service Entry Date and Service Separation Date	Varies based upon Service. See Table 5-17.	4	29	DR

Table 5-17: ZMH – Field Number for Each Field

Type					
SL	Service branch [Last]	(.325)	Service number [Last] (.328)	Service Discharge Type [Last] (.324)	Service Entry Date [Last] (.326)	Service Separation Date [Last] (.327)
SNL	Service branch [NTL]	(.3291)	Service number [NTL] (.3294)	Service Discharge Type [NTL] (.329)	Service Entry Date [NTL] (.3292)	Service Separation Date [NTL] (.3293)
SNNL	Service branch [NNTL]	(.3296)	Service number [NNTL] (.3299)	Service Discharge Type [NNTL] (.3295)	Service Entry Date [NNTL] (.3297)	Service Separation Date [NNTL] (.3298)
POW	POW Status Indicated	(.525)	POW Confinement Location (.526)	Not used	POW from date (.527)	POW to date (.528)
COMB	Combat Service Indicated	(.5291)	Combat Service Location (.5292)	Not used	Combat from date (.5293)	Combat to date (.5294)
VIET	Vietnam Service Indicated	(.32101)	Not used	Not used	Vietnam from date (.32104)	Vietnam to date (.32105)
LEBA	Lebanon Service Indicated	(.3221)	Not used	Not used	Lebanon from date (.3222)	Lebanon to date (.3223)
GREN	Grenada Service Indicated	(.3224)	Not used	Not used	Grenada from date (.3325)	Grenada to date (.3226)
PANA	Panama Service Indicated	(.3227)	Not used	Not used	Panama from date (.3228)	Panama to date (.3229)
GULF	Persian Gulf Service	(.32201)	Not used	Persian Gulf from date (.322011)	Persian Gulf to date (.322012)	Not used
SOMA	Somalia Service Indicated	(.322016)	Not used	Not used	Somalia from date (.322017)	Somalia to date (.322018)
YUGO	Yugoslavia Service Indicated	(.322019)	Not used	Not used	Yugoslavia from date (.32202)	Yugoslavia to date (.322021)
PH	Current PH Indicator	(.531)	Current Purple Heart Status (.532)	Current Purple Heart Remarks (.533)	Not used	Not used

Table 5-18: ZMH Segment Indicators/Qualifiers

Type					
SL	Service branch	Service number	Discharge Type	Entered	Separated
SNL	Service branch	Service number	Discharge Type	Entered	Separated
SNNL	Service branch	Service number	Discharge Type	Entered	Separated
POW	Indicated - 'Y', 'N' or 'U'	Confinement Location	Not Used	From Date	To Date
COMB	Indicated - 'Y', 'N' or 'U'	Service Location	Not Used	From Date	To Date
VIET	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
LEBA	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
GREN	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
PANA	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
GULF	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
SOMA	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
YUGO	Indicated - 'Y', 'N' or 'U'	Not used	Not Used	From Date	To Date
PH	PH Indicator	PH Status	Rejected Remarks	Not Used	Not Used

5.4   Supported and User-Defined HL7 Tables

Table 5-19: Event Type

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 5-20: Patient Class

Value	Description
I	Inpatient
O	Outpatient
U	Unknown

Table 5-21: Acknowledgment Code

Value	Description

AA	Application Acknowledgment: Accept
AE	Application Acknowledgment: Error
AR	Application Acknowledgment: Reject – Not Used
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 AITC at this time. 'MR' may be used instead.

Table 5-22: Message Type

Value	Description
SIU	SIU Message
ACK	General Acknowledgment

Table 5-23: Patient Status Codes

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.

The patient status code indicates whether a patient is new to the facility or not. Both the parent station and the substations are evaluated. The patient is new to the facility if he or she did not have another scheduled appointment in the same facility during the last 24 months. The facility is determined from the Institution file if there is a pointer to it from the Hospital Location file through the pointer to the Medical Center Division from the Division field of the Hospital Location file. Also see the User Guide for additional information.

Table 5-24: 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 5-25: 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
O	Outpatient
I	Inpatient
RS	Re-Schedule

Table 5-26: Filler Status Codes

Value	Description
P	Pending
F	Final

Table 5-27: Yes or No Description

Value	Description
0	No
1	Yes
N	No
Y	Yes
U	Unknown

Table 5-28: 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

The values denoted in Table 5-29 shows the valid combinations of Purpose of Visit & Appointment Type. This table is also used for ACRP HL7 transmission.

Table 5-29: Purpose of Visit and 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	Unscheduled Visit	Compensation & Pension
0402	Unscheduled Visit	Class II Dental
0403	Unscheduled Visit	Organ Donors
0404	Unscheduled Visit	Employee
0405	Unscheduled Visit	Prima Facia
0406	Unscheduled Visit	Research
0407	Unscheduled Visit	Collateral of Vet.
0408	Unscheduled Visit	Sharing Agreement
0409	Unscheduled Visit	Regular
0411	Unscheduled Visit	Service Connected

AITC created rejection code 850, 'Admit type is invalid (Table 5-27)', which corresponds to the following error-checking code in the PCMM HL7 ERROR CODE file (#404.472), and enforces the combinations in Table 5-29.

```
        IF ADMIT_TYPE NOT IN ('0101','0102','0103','0104','0105','0106',
              '0107','0108','0109','0111','0201','0202','0203','0204','0205',
              '0206','0207','0208','0209','0211','0301','0302','0303','0304',
              '0305','0306','0307','0308','0309','0311','0401','0402','0403',
              '0404','0405','0406','0407','0408',
              '0409','0411',' ')
THEN ERR_CODE = '850';
```

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

Table 5-30: 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

Table 5-31: Scheduling Event Reason

Value	Description
CI	Check-in
CO	Check-out
NS	No Show
CC	Cancel by clinic
CP	Cancel by patient
COE	Check-out by encounter
NM	No Match
CT	Cancelled Terminated

Table 5-32: 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 station are not equal
250	Invalid or missing BHS station number

300	Invalid or missing station
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
R	Whole batch rejected

R – In the above table, whole batch rejection may be done only in VistA through the Manual Batch Reject [SD-PAIT MANUAL BATCH REJECT] option.

Table 5-33 gives a previous snapshot of the DSS ID and DSS Credit Stop table. This table is included as sample data only. The corresponding VistA Clinic Stop (file #40.7) is updated annually so will not necessarily match the sample data below.

Table 5-33: DSS ID and DSS Credit Stop

Value	Description	Allow Either	Primary	Secondary	Inactive Date
101	Emergency Unit			S	
102	Admitting/Screening	E			
103	Telephone Triage		P		
104	Pulmonary Function	E			
105	X-Ray	E			
106	EEG	E			
107	EKG		P		
108	Laboratory	E			
109	Nuclear Medicine	E			
110	Cardiovascular Nuclear Med	E			Oct 1, 1998
111	Oncological Nuclear Med	E			Oct 1, 1998
112	Infectious Disease Nuclear Med	E			Oct 1, 1998
113	Radionuclide Treatment	E			Oct 1, 1998
114	Sing Photon Emiss Tomography	E			Oct 1, 1998
115	Ultrasound	E			
116	Respiratory Therapy	E			
117	Nursing (2nd only)			S	
118	Home Treatment Services		P		
119	Comm Nursing Home Follow-Up	E			
120	Health Screening	E			
121	Residential Care (Non-MH)	E			
122	Public Health Nursing	E			

123	Nutrition/Dietetics-Individual	E			
124	Nutrition/Dietetics-Group	E			
125	Social Work Service	E			
126	Evoked Potential	E			
127	Topographical Brain Mapping	E			
128	Prolonged Video-Eeg Monitoring	E			
129	Hypertension Screening	E			Oct 1, 1991
130	Cholesterol Screening	E			Oct 1, 1991
131	Breast Cancer Screening	E			Oct 1, 1991
132	Mammogram	E			Oct 1, 1991
133	Cervical Cancer Screening	E			Oct 1, 1991
134	Pap Test	E			Oct 1, 1991
135	Colorectal Cancer Screening	E			Oct 1, 1991
136	Fobt - Guiac Screening	E			Oct 1, 1991
137	Alcohol Counseling - Med Care	E			Oct 1, 1991
138	Smoking Cessation	E			Oct 1, 1991
139	Weight Control	E			Oct 1, 1991
140	Phys Fitness/Exercise Counsel	E			Oct 1, 1991
141	Vet Immunization	E			Oct 1, 1991
142	Colorectal Ca Screen Dig Exam	E			Oct 1, 1991
143	Persian Gulf Readjust Counsel	E			Jan 1, 1988
144	Radionuclide Therapy	E			
145	Pharm/Physio Nmp Studies	E			
146	Pet	E			
147	Telephone/Ancillary		P		
148	Telephone/Diagnostic		P		
149	Radiation Therapy Treatment	E			
150	Computerized Tomography (CT)	E			
151	Magnetic Resonance Imaging/MRI	E			
152	Angiogram Catheterization	E			
153	Interventional Radiography	E			
154	MEG (Magnetoencephalography)	E			
155	Info Assists Technology	E			
160	Clinical Pharmacy			S	
161	Transitional Pharmacy		P		
163	Chaplain-Clinical SVCS-Indiv	E			Oct 1, 2002
164	Chaplain-Clinical SVCS-Group	E			Oct 1, 2002
165	Bereavement Counseling	E			
166	Chaplain Service - Individual	E			
167	Chaplain Service - Group	E			
168	Chaplain Service - Collateral	E			
169	Telephone/Chaplain		P		
170	HBPC - Physician		P		
171	HBPC - RN/RNP/PA		P		
172	HBPC - Nurse Extender		P		
173	HBPC - Social Worker		P		
174	HBPC - Therapist		P		
175	HBPC - Dietitian		P		
176	HBPC - Clinical Pharmacist		P		
177	HBPC - Other		P		
178	HBPC/Telephone		P		
179	Home Televideo Care			S	
180	Dental	E			

181	Telephone/Dental		P		
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	E			
201	Physical Med & Rehab SVC	E			
202	Recreation Therapy Service	E			
203	Audiology	E			
204	Speech Pathology	E			
205	Physical Therapy	E			
206	Occupational Therapy	E			
207	PM&RS Incentive Therapy	E			
208	PM&RS Compensated Work Therapy	E			
209	Vist Coordinator	E			
210	Spinal Cord Injury	E			
211	Amputation Follow-Up Clinic	E			
212	EMG - Electromyogram	E			
213	PM&RS Vocational Assistance	E			
214	Kinesiotherapy	E			
215	SCI Home Care Program	E			
216	Telephone/Rehab and Support		P		
217	BROS (Blind Rehab O/P Spec)	E			
218	Cat Blind Rehab	E			
219	TBI (Traumatic Brain Injury)	E			
220	VISOR (Visual Impairment Outpatient)	E			
290	Observation Medicine		P		
291	Observation Surgery		P		
292	Observation Psychiatry		P		
293	Observation Neurology		P		
294	Observation Blind Rehab		P		
295	Observation Spinal Cord		P		
296	Observation Rehabilitation		P		
301	General Internal Medicine	E			
302	Allergy Immunology	E			
303	Cardiology	E			
304	Dermatology	E			
305	Endo./Metab (except Diabetes)	E			
306	Diabetes	E			
307	Gastroenterology	E			
308	Hematology	E			
309	Hypertension	E			
310	Infectious Disease	E			
311	Pacemaker	E			
312	Pulmonary/Chest	E			
313	Renal/Nephrol(except Dialysis)	E			
314	Rheumatology/Arthritis	E			
315	Neurology	E			
316	Oncology/Tumor	E			
317	Coumadin Clinic	E			
318	Geriatric Clinic	E			
319	Geriatric Eval & Mgmt (GEM)	E			
320	Alzheimer's/Dementia Clinic	E			
321	GI Endoscopy	E			

322	Women's Clinic	E			
323	Primary Care/Medicine	E			
324	Telephone/Medicine		P		
325	Telephone/Neurology		P		
326	Telephone/Geriatrics		P		
327	Med MD Perform Invasive or Proc		P		
328	Medical/Surgical Day Unit MSDU	E			
329	Medical Procedure Unit	E			
330	Chemotherapy Proc. Unit-med.	E			
331	Pre-Bed Care MD (Medicine)	E			
332	Pre-Bed Care RN (medicine)	E			
333	Cardiac Catheterization	E			
334	Cardiac Stress Test/ETT	E			
335	Padrecc Parkinson's diseaserecc	E			
350	Geriatric Primary Care	E			
351	Advanced Illness Coor Care(AICC)	E			
370	Ltc Screening (2nd Only)			S	
401	General Surgery	E			
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	E			
412	Proctology	E			
413	Thoracic Surgery	E			
414	Urology	E			
415	Vascular Surgery	E			
416	Amb Surgery Eval BY Non-MD	E			
417	Prosthetics/Orthotics	E			
418	Amputation Clinic	E			
419	Anesthesia Pre/Post-Op Consult	E			
420	Pain Clinic	E			
421	Vascular Laboratory	E			
422	Cast Clinic	E			
423	Prosthetic Supply Dispensed	E			
424	Telephone/Surgery		P		
425	Telephone/Prosthetics/Orthotic		P		
426	Women Surgery	E			
427	Primary Care/Surgery	E			Oct 1, 1997
428	Telephone/Optometry		P		
429	Outpatient Care In OR		P		
430	Cysto Room Unit for Outpatient	E			
431	Chemotherapy proc. Unit-Surg	E			
432	Pre-Bed Care MD (Surgery)	E			
433	Pre-Bed Care RN (Surgery)	E			
435	Surgical Procedure Unit	E			
436	Chiropractic Care In Med CTR	E			
449	Fitting & Adjstmnts 2nd Only			S	

450	Compensation & Pension			S	
451 to 456	Local Use			S	
457	Transplant			S	
458 to 473	Local Use (Delete 473 Tbppd Shot)			S	
474	Research			S	
475 to 479	Local Use			S	
480	Comprehensive Fundoscopy			S	
481	Bronchoscopy			S	
482 to 485	Local Use			S	
501	Homeless Mentally Ill Outreach	E			Oct 1, 1994
502	Mental Health Clinic - IND	E			
503	MH Residential Care IND	E			
504	IPCC Medical Center Visit	E			Apr 1, 1997
505	Day Treatment-Individual	E			
506	Day Hospital-Individual	E			
507	Drug Dependence-Individual	E			Apr 1, 1997
508	Alcohol Treatment-Individual	E			Apr 1, 1997
509	Psychiatry-MD Individual	E			
510	Psychology-Individual	E			
511	Neurobehavioral-Individual	E			Oct 1, 1993
512	Psychiatry Consultation	E			
513	Substance Abuse - Individual	E			
514	Substance Abuse - Home Visit	E			
515	CWT/TR-HCMI	E			Apr 1, 1997
516	PTSD - Group	E			
517	CWT Substance Abuse	E			Apr 1, 1997
518	CWT/TR-Substance Abuse	E			Apr 1, 1997
519	Subst Use Disorder/PTSD Teams	E			
520	Long-Term Enhancement, Individ	E			
521	Long-Term Enhancement, Group	E			
522	HUD/VASH	E			
523	Opioid Substitution	E			
524	Active Duty Sex Trauma	E			
525	Women's Stress Disorder Teams	E			
526	Telephone/Special Psychiatry	E			Apr 1, 1997
527	Telephone/General Psychiatry		P		
528	Tele/Homeless Mentally Ill		P		
529	HCHV/HMI		P		
530	Telephone/Hud-Vash		P		
531	Mh Primary Care Team - IND	E			
532	Psychosocial Rehab - IND	E			
533	MH Intervntion Biomed Care IND	E			
535	MH Vocational Assistance - IND	E			
536	Telephone/MH Voc Assistance		P		
537	Telephone/Psychosocial Rehab		P		
538	Psychological Testing	E			
540	PCT Post-Traumatic Stress-IND		P		
541	PTSD Post-Traumatic Stress	E			Jan 1, 1991
542	Telephone/PTSD		P		
543	Telephone/Alcohol Dependence	E			Apr 1, 1997
544	Telephone/Drug Dependence	E			Apr 1, 1997
545	Telephone/Substance Abuse		P		
546	Telephone/MHICM		P		

547	Intensive Substance Abuse Trmt	E			
550	Mental Health Clinic-Group	E			
551	IPCC Comm Cln/Day Program Vst	E			Apr 1, 1997
552	Mental HLT Int Case Mgt(Mhicm)		P		
553	Day Treatment-Group	E			
554	Day Hospital-Group	E			
555	Drug Dependence-Group	E			Apr 1, 1997
555	Drug Dependence-Group	E			Apr 1, 1997
556	Alcohol Treatment-Group	E			Apr 1, 1997
557	Psychiatry - MD Group	E			
558	Psychology-Group	E			
559	Psychosocial Rehab - Group	E			
560	Substance Abuse - Group	E			
561	Pct-Post Traumatic Stress-Grp		P		
562	PTSD - Individual	E			
563	MH Primary Care Team - Group	E			
564	MH Team Case Management	E			
565	MH Medical Care Only-Group	E			
566	MH Risk-Factor-Reduction Ed Grp	E			
567	MHICM Grp Mtlhlth Intsv CS Mgt		P		
571	Readjustment Counseling-Indiv	E			Jan 31, 1994
572	Readjustment Counseling-Group	E			Jan 31, 1994
573	MH Incentive Therapy - Group	E			
574	Mh Comp Work Therapy (CWT) Grp	E			
575	MH Vocational Assistance-Grp	E			
576	Psychogeriatric - Individual	E			
577	Psychogeriatric Clinic - Group	E			
578	Psychogeriatric Day Program	E			
579	Telephone/Psychogeriatrics		P		
580	PTSD Day Hospital	E			
581	PTSD Day Treatment	E			
589	Non-Active Duty Sex Trauma	E			
590	Comm Outreach Homeless Vets	E			
601	Acute Hemodial Treatment	E			Oct 1, 1990
602	Chron Assisted Hemodial Treat		P		
603	Lim Self Care Hemodial Treat		P		
604	Home/Self Hemodial Train Treat		P		
605	Acute Peritoneal Dial Treat		P		Oct 1, 1990
606	Chron Assisted Perit Dialysis		P		
607	Lim Self Care Perit Dialysis		P		
608	Home/Self Perit Dialysis Train		P		
610	Contract Dialysis		P		
611	Telephone/Dialysis		P		
640	Send-Out Procs Not Fee		P		
641	Send-Out Procs-Dod Not Fee		P		
642	Send-Out Procs Fee		P		
650	Contract Nursing Home Days		P		
651	State Nursing Home Days		P		
652	State Domiciliary Home Days		P		
653	State Hospital Care		P		
654	Non VA Residential Care Days		P		
655	Community Non-VA Care		P		
656	DOD Non-VA Care		P		

657	Assist Living Vendor Work		P		
660	Chiropractic Care Outside VA		P		
670	Assist Living, VHA-Paid Staff		P		
680	Home/Commun Healthcare Assess	E			
681	VA-Paid Home/Commun Healthcare		P		
682	VA-Refer Home/Commun Care Prov		P		
683	Nonvideo Home Telehealth Monit		P		
684	Nonvideo Home Telehealth Inter			S	
690	Telemedicine			S	
691	Pre-Emp Phys Militry Personnel	E			
692	Telmd Cnslt Sm Sta 2nd Only			S	
693	Telmd Cnslt Not Sm Sta 2ndonly			S	
701	Blood Pressure Check			S	
702	Cholesterol Screening			S	Oct 1, 2002
703	Mammogram (Can Be Primary)	E			
704	Pap Test			S	
705	Fobt - Guiac Screening			S	Oct 1, 2002
706	Alcohol Screening			S	
707	Smoking Cessation			S	
708	Nutrition			S	Oct 1, 2002
709	Phy Fit/Exercise Counseling			S	Oct 1, 2002
710	Influenza Immunization			S	
711	Injury Counsel/Seat Belt Usage			S	Oct 1, 2002
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	E			
726	Dom Aftercare - Community	E			
727	Domiciliary Aftercare - VA	E			
728	Domiciliary Dam Screening Sacs	E			
729	Telephone/Domiciliary		P		
730	Dom General Care	E			
731	Prep General Care	E			
801	In-Vans, Other Vamp 2nd Only			S	
802	Out Of Vans, VA 2ndary Only			S	
803	Commercial 2ndary Only			S	
900	Special Services	E			Oct 1, 1998
902	Computed Tomography Scans	E			Apr 1, 1989
903	Radiation Therapy	E			Apr 1, 1989
904	Chemotherapy	E			Mar 1, 1989
905	Ambulatory Surgery Services	E			Apr 1, 1989
906	Blood/Blood Products Trans.	E			Apr 1, 1989
907	Nuclear Magnetic Resonance	E			Apr 1, 1989
999	Employee Health		P		

5.5   HL7 Control Segments

The following illustrates PAIT Batch Message format:

```
BHS^~|\&^SD-AITC-PAIT^200^SD-SITE-
PAIT^500^20040408140937^^~P~ACK~2.4~AL~NE^AE^200404-5001740^5001740
MSH^~|\&^SD-SITE-PAIT^500^SD-AITC-PAIT^200^^^SIU~S12^5001740236-
1^D^2.4^^^AL^AL^USA
SCH^1^^^^^^4^NAT^^^~~~20030908~~~Date Appt Created|~~~~~~Desired
Date|~~~200309180800~~~Appt
Date|~~~~~~Checkout Date|~~~~~~Cancellation Date|~~~~~~Auto-rebook
Date|~~~~~~Resched
Date|~~~200309010930~~~Consult Date^^^^^^^^^^^^^^P
PID^1^^""~~~USVHA&&L~NI|7171938~~~USVHA&&L~PI^^XXXXX~YYYYY^^19301212^^^^~~~~191
07^^^^^^^^2081212
30P
PV1^1^O^^0309^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^500
PV2^^^^^^^^^^^^^^^^^^^^^^^SHB
AIP^1^^1934~XXXXXXX~YYYYYYY~R^Provider
AIL^1^^422~~~~~~~~CECELIA'S CLINIC^402~CARDIAC SURGERY~DSS Clinic
ID^418~AMPUTATION CLINIC~DSS
Credit Stop
ZCL^1^1^
ZCL^2^2^""
ZCL^3^3^
ZCL^4^4^""
ZCL^5^5^""
ZCL^6^6^""
ZCL^7^7^""
ZCL^8^8^""
ZEN^1^^^^^^^^5
ZSP^1^Y^60
ZEL^1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^U^
ZMH^1^SL^^~19690502
ZMH^2^COMB^Y~KOREAN
ZMH^3^GULF^N^
ZSP^1^N^
MSH^~|\&^SD-SITE-PAIT^500^SD-AITC-PAIT^200^^^SIU~S15^5001740236-
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 Date ^^^^^^^^^^^^^F
PID^1^^""~~~USVHA&&L~NI|7172069~~~USVHA&&L~PI^^YORTY~OUTPATIENT^^19710604^^^^~~
~~17042^^^^^^^509
060471P
PV1^1^U^^0311^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^500
PV2^^^^^^^^^^^^^^^^^^^^^^^SHB
AIP^1^^1934~XXXXXXXX~YYYYYYY~R^Provider
AIL^1^^614~~~~~~~~YORTY'S CLINIC^329~MEDICAL PROCEDURE UNIT~DSS Clinic ID^~~DSS
Credit Stop
ZCL^1^1^
ZCL^2^2^""
ZCL^3^3^
ZCL^4^4^""
ZCL^5^5^""
ZCL^6^6^""
ZCL^7^7^""
ZCL^8^8^""
ZEN^1^^^^^^^^1
ZSP^1^Y^60
ZEL^1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^1^20090912
ZMH^1^SL^^~19690502
ZMH^2^COMB^N~^
ZMH^3^GULF^N^
```

```
MSH^~|\&^SD-SITE-PAIT^500^SD-AITC-PAIT^200^^^SIU~S15^5001740236-
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 Date ^^^^^^^^^^^^^F
PID^1^^""~~~USVHA&&L~NI|7172424~~~USVHA&&L~PI^^XXXXXXX~YYYYYY~XXXXX~III~MR^^194
90416^^^^~~~~33354^^^^^^^244990005
PV1^1^U^^0309^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^500
PV2^^^^^^^^^^^^^^^^^^^^^^^^NTF
AIL^1^^312~~~~~~~~XXXXX^102~ADMITTING/SCREENING~DSS Clinic ID^104~PULMONARY
FUNCTION~DSS Credit Stop
ZCL^1^1^
ZCL^2^2^""
ZCL^3^3^
ZCL^4^4^""
ZCL^5^5^""
ZCL^6^6^""
ZCL^7^7^""
ZCL^8^8^""
ZEN^1^^^^^^^^1
ZSP^1^N^
ZEL^1^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^U^
ZMH^1^SL^^~19690502
ZMH^2^COMB^Y~VIETNAM
ZMH^3^GULF^N^
BTS^3
```

The following are examples of Application Acknowledgement Messages.

All appointments were accepted:

```
BHS^~|\&^SD-AITC-PAIT^200^SD-SITE-
PAIT^500^20040408140930^^~P~ACK~2.4~AL~NE^AA^200404-5001738^5001738
MSA^AA^5001738^
BTS^1
```

Three appointments were rejected:

```
BHS^~|\&^SD-AITC-PAIT^200^SD-SITE-
PAIT^500^20040408140937^^~P~ACK~2.4~AL~NE^AE^200404-5001740^5001740
MSA^AE^5001740
MSA^AE^5001740-1^250
MSA^AE^5001740-2^200
MSA^AE^5001740-3^200
 BTS^3
```

Appendix A Glossary

Table A-1 provides valuable terms and their definitions as a reference for this document.

Table A-1: Term References

Term	Definition
Admission Type	See Table 5-25
Agent Orange Exposure	See Table 5-28
Appointment Date	The date the appointment was scheduled to be kept.
Appointment status	See Table 5-26
Appointment Type	See Table 5-25
Auto-rebook Date	Date of the auto-rebooked appointment
Auto-rebook Flag	See Table 5-24
Cancellation Date	If the appointment was cancelled by the clinic or the patient, the date of cancellation.
Check out Date	Date of appointment checkout. If the date is populated it is considered to be a kept appointment.
Clinic IEN Number	Internal entry number of the Hospital Location where the appointment was scheduled.
Clinic Name	Name of Clinic from Hospital Location file 44
Consult Request Date	Date of requested consult
Current SC percentage	Current service connected percentage
Current SC status	Current service connected status, Y/N
Date Appointment Created	The date the appointment was created
Date Of Birth	The date of birth of the patient
Desired Appointment Date	The appointment date requested.
DSS Credit Stop of Clinic	Credit stop code of the Hospital Location file
DSS Identifier of Clinic	Stop code of the Hospital Location file entry where the appointment was scheduled.
Enrollment Priority	See Table 5-30
Environmental Contaminants	See Table 5-28
Facility Number	Station Number, field #99 of the Institution file
Filler	Term used in HL7 standards, usually referring to the "filler" of an order or request, or a "filler" application
Head and/or Neck Cancer	See Table 5-28
IE	Interface Engine. See Vitria.
Ionizing Radiation Exposure	See Table 5-28
Last Name/First Name/Middle Name	The name of the patient. Stored as three distinct name components with a combined maximum length of 45 characters
M&IS	Messaging and Interface Support
Military Sexual Trauma	See Table 5-28
New to Facility/Clinic Flag	NTF if the patient did not have a prior appointment at this facility in the past 24 months. SHB or OPN otherwise – see Table 5-21
Next Available Request Flags	See Table 5-24
PAIT	Patient Appointment Information Transmission
Patient's DFN	The internal entry number of the patient in the VistA Patient file #2.
Provider	IEN and name of provider associated with the Hospital Location
Reschedule Date	The date on which the appointment was rescheduled without auto-rebooking

Scheduling Event Reason	See SIU Event Mapping Table
Service Connection Condition Flag	See Table 5-28
VIE	Vitria Interface Engine. See Vitria.
Vitria	An intermediate software and hardware system to receive data from VistA sites, upload to AITC and then to receive acknowledgements from AITC and download them to the VistA sites