
Veterans Personal Finance System (VPFS)

VistAMigrate Data Migration Guide

Version 1.2.0



July 2020

**U.S. Department of Veterans Affairs
Health Systems Design & Development**

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History of Revisions

Version	Section Changed	Description of Change	Effective Date	Contacts
1.0		Initial release of document	12/01/06	redacted
1.0	Section 4.9.1	Added note about the removal of PRPF_DATA_MIGRATION_USERS security key	01/18/07	redacted
1.2.0	Footer sections	Updated footer sections with updated date and version number.	01/15/18	redacted

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About This Document

Document Purpose

The purpose of the VistAMigrate Data Migration Guide is to provide a step-by-step guide to the data migration process. The document provides instructions for the entire migration process from installing any MUMPS (M) patches required for running data diagnostics to finalizing the migration on the Java side.

Document Audience

The audience for this document includes:

- All stakeholders with a role to play in data migration
- Local Information Resource Management (IRM) and Automated Data Processing Application Coordinator (ADPAC)
- Enterprise Management Center (EMC), Enterprise VistA Support (EVS) and National Training and Education Office (NT&EO)

Conventions Used in this Document

Format	Indicates...
bold	A control that you click, such as a button, icon, or link, or a field label. Example: Click Deploy .
Courier - normal	Text that appears on the screen or in a log file. Example: Table created.
Courier - bold	Text that you type. SQL> quit
<Courier> italic and enclosed in angle brackets	A variable that you replace with the specified text Enter password: <SYSDBA password>

Additional Resources

For additional documentation, go to the VHA Application Modernization website:

redacted

1. Overview of VistAMigrate

1. Overview of VistAMigrate

The Department of Veterans Health Administration (VHA) is in the process of reengineering a number of legacy applications, moving from the MUMPS-based Veterans Health Information Systems and Technology Architecture (VistA) environment to the Veterans Affairs (VA's) standard modern environment, which includes Oracle for the database environment and The Java 2 Platform, Enterprise Edition (J2EE) for the application software environment. The redesigned applications will use the Oracle database and the BEA WebLogic Application Server, built using the J2EE open source platform running on Red Hat Linux servers. The database will be centralized for all facilities at the VAEMC, and applications will be accessible via a secure, 508-compliant Web browser front end.

VistAMigrate is the tool that VPFS (Veterans Personal Funds System) can use to migrate current demographic data from VistA legacy to reengineering applications. VistAMigrate includes reports that you use to analyze your production data in preparation for migration. After you have thoroughly analyzed and cleaned your data, you can cut over to the production environment. After cutover, you will still be able to access VistA legacy for reporting purposes and to view historical information; but you will not be able to make changes to data in the legacy system.

2. Preparing to Migrate Data from PFOP to VPFS

2.1 Overview

VPFS is the mini-banking system used to manage the accounts of VHA patients in the VHA hospital system. VPFS replaces the Personal Funds of Patients (PFOP) system that was used previously. VPFS looks different from PFOP because it is a web-based application; however, its design and functionality are modeled after PFOP. You can perform all the functions in VPFS that were available in PFOP, with the exception of a few functions that are no longer needed because of the new built-in security controls.

One of the major changes is that VPFS is a centralized system. With PFOP, each site used a stand-alone copy of the software and there were differences between local versions, such as data structures, business rules, etc. With VPFS, all sites access the same centralized application using a web browser over the VHA secure Intranet. VPFS stores all data for all sites in one centralized database. Access to the data in the database is controlled by security software that limits access according to your VistA site and user role.

Data that is migrated from the PFOP to the VPFS include: patient name and identifying information, patient type and status, account limits, balance, and other related information. The balance from each existing PFOP account will be carried forward as a single transaction (BALCARFWD) to start each new VPFS account. All deferred transactions will also be migrated.

To get the balance information, the migration process will automatically insert a record based on an extract of current balance and associated data. If the migration is being performed from a manual system, the Patient Funds Clerk (PFC) can perform a deposit transaction (using the defined process for moving from a manual system to VPFS). From this point of view, it is not necessary to migrate more than current data. However, since at the time of cutover there may be transactions with deferral dates (so that their amounts are not included in the Total Available until these deferral dates are reached), all deferred transactions will be brought over.

Note: Go to PFOP to review past transaction history. The transaction history in VPFS will begin with the migrated transactions and the initial balance carried forward.

Some of the data that is displayed in VPFS comes from other files and cannot be updated through VPFS:

- **Patient File Data:** Address, Guardian information, date of birth, SSN, Claim Number, etc. are provided by the Patient File and refreshed with the most current information each time you access VPFS. Changes to patient file data must be made at the source in the Patient File.
- **Standard Data Service (SDS):** The standard State list, Country list, and Institution list are provided by SDS. Changes to these standard lists must be made by the SDS group.

2.2 Flow of Data through VistAMigrate

The following diagram shows the flow of the data from M through VistAMigrate and into the Oracle production tables.

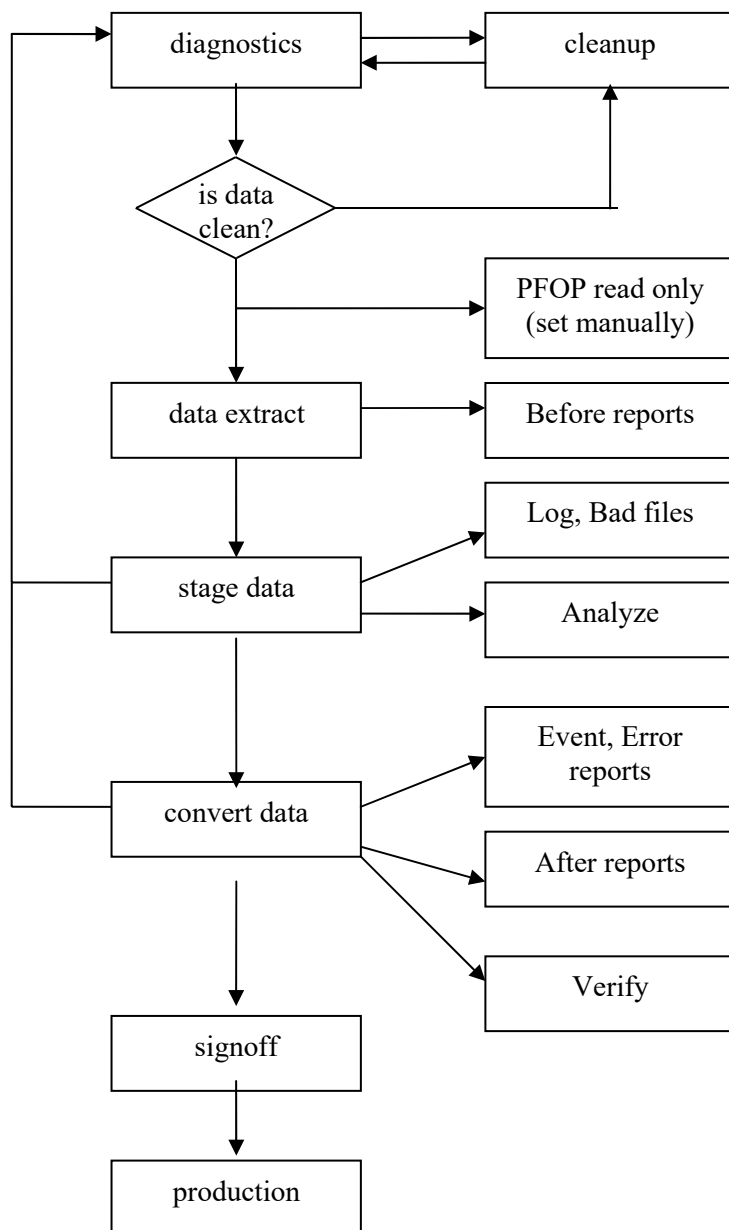


Figure 2-1. Flow of Data

2.3 Groups/Roles in Data Migration

Individuals from a number of different groups have roles in the data migration, both for field testing and for the national rollout. These groups and roles are described in the following table:

Table 2-1. Groups and Roles

Group	Role
Field Test Site	<p>Various resources:</p> <ul style="list-style-type: none"> • Champion (site “owner”: supervise local activities) • Business users (cleanup data) • Local IRM / Site Manager (set up VistA User Accounts for use by Authentication and Authorization service) • Local fiscal staff (participate in evaluation of migrated data)
Project team	<p>Development owners of the application:</p> <ul style="list-style-type: none"> • Responsible for support through field testing • Drive field testing • Responsible for all preparations for implementation through field testing
Project Implementation Office (PIO)	<ul style="list-style-type: none"> • Provide coordination between the EMC hosting site, EVS, Health Systems Design & Development (HSD&D), and the local sites. • Notify the hosting site of scheduled deployment dates. • Work with the NT&EO • Participate in pre-testing activities in order to provide advice and get familiar with the project to plan for post testing activities.
Hosting Site and EMC	<ul style="list-style-type: none"> • Provide and maintain the hardware. • Provide and maintain the software environment.
EVS	<ul style="list-style-type: none"> • Provide advice and support in pre-testing activities (e.g. candidate site contacts) • Ongoing support of the post-testing project • Participate in pre-testing activities in order to provide advice and get familiar with the project so as to plan for post-testing activities
National Training and Education Office (NT&EO)	<ul style="list-style-type: none"> • Training oversight • Training plan and materials oversight
Technical Support Office (TSO)	<ul style="list-style-type: none"> • Technical assistance for data cleanup • Provide training for VistAMigrate • Coordinate with the sites to complete the migration

2.4 Preparation Checklist

The data migration process involves a number of steps that begin well before the actual cutover. Tasks to perform prior to the beginning of data cleanup are listed in the table below, which can be filled in for each site and used as a checklist.

Table 2-2. Preparation Checklist

Task	Assigned To	Due Date	Comments
Identify roles: <ul style="list-style-type: none"> Who is the data owner for the site? Who will be responsible for the data cleanup? Who will participate in the data cleanup? Who will support data cleanup? Who will ensure that the appropriate staff members have access to the Diagnostic Routine on the PFOP Menu? 	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	<p>Although one person will be primarily responsible for ensuring that the data is properly cleansed, many others may participate in the actual cleanup. These people should be subject matter experts who are familiar with what data is valid, and who know the business rules.</p> <p>Since there is one centralized database and one centralized application server, local IRM do not have to support the actual application. But, they will be critical in supporting the M patch that runs the diagnostic routine and in providing access to it.</p>
Identify staff filling each of the above roles.	_____	_____	The person performing this task must have the authority to commit staff resources to specific data cleanup tasks.
Hold a site stakeholders' meeting, including all above staff.	_____	_____	This meeting is to explain what each role is supposed to do, to provide training in the process and tool, and to review the data migration schedule for the site.
Train participating site staff.	_____	_____	Training includes how to perform the data cleanup.

Review the current state of the data.			Identify any special problems or issues that will have to be resolved during cleanup.
Task	Assigned To	Due Date	Comments
Review the detailed schedule for cleanup.			
Determine how normal functioning will be affected by the data migration dates.			For example: Will this affect the reconciliation process?
Perform detailed contingency planning in the event of a data migration failure.			
Decide on the site's data migration error reporting and notification process.			
Install Diagnostic Patch 15 on the local VistA legacy application to be used to perform data cleanup.			This step must be performed by local IRM or the ADPAC staff.
Install Migration Patch 16 on the local VistA legacy application to be used to perform the data extract when cleanup is complete.			<p>The Extract will be executed from the VistAMigrate tool, not from the local VistA application menu.</p> <p>This step must be performed by local IRM or the ADPAC staff.</p>
Install Patch 17, which locks down the VistA legacy application.			This step must be performed by local IRM or the ADPAC staff.

It is highly recommended that you set up a Data Migration binder for your site and ensure that all persons involved understand the use of the binder.

This binder is very important because it will contain the history of your data migration (such as the Diagnostic reports and documentation of error corrections).

2.5 Patient Funds Data Migration Process

Before deploying reengineered applications, each site cycles through the data migration steps shown in Figure 2-2:

- The diagnosis / cleanup process (shown in yellow) is performed in the M environment a number of times to ensure that data is clean and ready for migration.
- The steps in the reengineered environment (shown in white) are performed using the VistAMigrate software tool. You can restart the data migration process at any point and go back to the M environment to clean up data as long as you have not performed the final step.
- The final step (shown in blue) moves the data into the production tables in the new environment. At this point the site begins to use the reengineered application for all data entry. Patch 17 is installed in the M environment to lock data entry in the legacy application. Reporting functions remain available for auditing purposes.

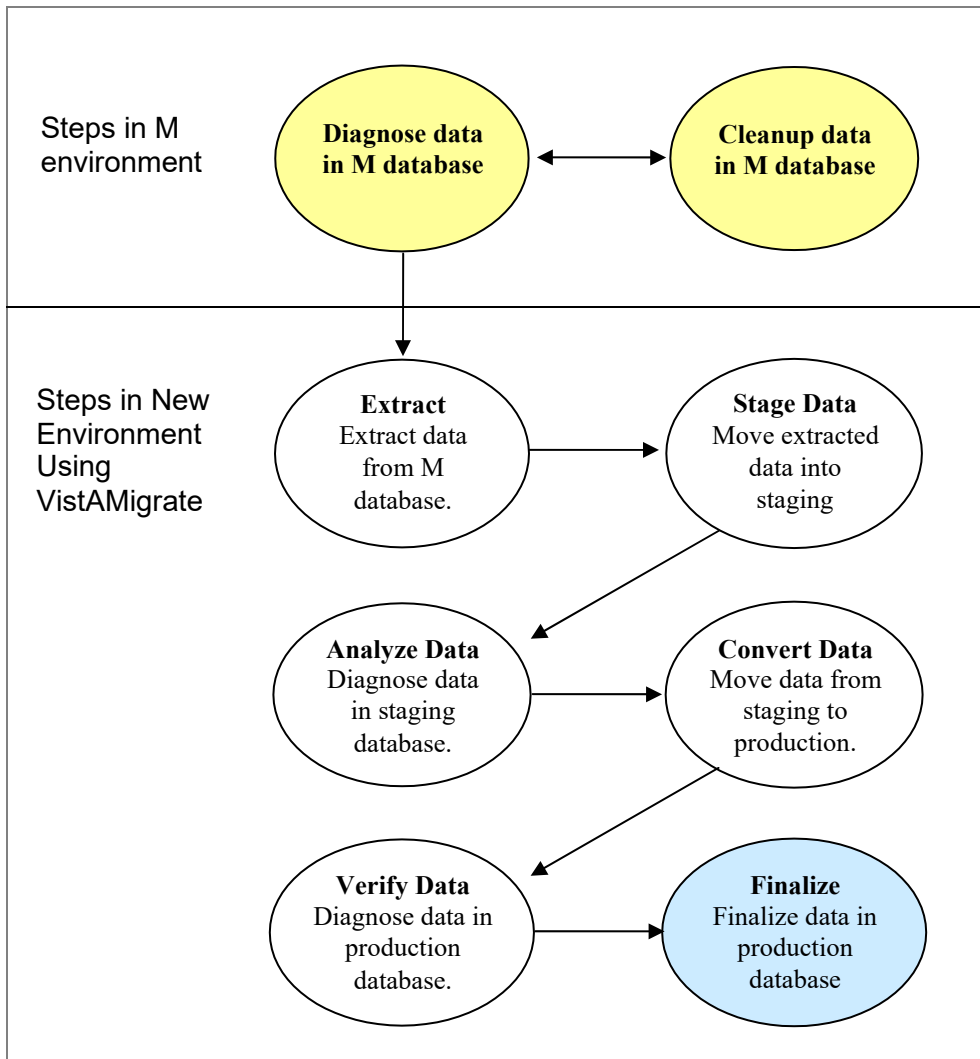


Figure 2-2. The Data Migration Process

2.6 Data Migration Task Assignments

You may want to use the following table to record data migration task assignments, due dates, and comments.

Table 2-3. Data Migration Task Assignments

Task	Assigned To	Due Date	Comments
Run the Diagnostic routine and perform data cleanup in the M environment.	_____	_____	
Document results of each run and store results in a binder.	_____	_____	

When data is sufficiently clean, obtain sign-off on readiness to migrate the data.	_____	_____	
Run the M Diagnostic step.	_____	_____	
Run the M Extract step	_____	_____	
Run the Stage Data step.	_____	_____	
Run the Analyze Data step.	_____	_____	
Using the Analyze report, verify that the data is sufficiently clean to migrate.	_____	_____	
If data is not sufficiently clean, you can perform one of the following steps:	_____	_____	
<ul style="list-style-type: none"> Re-run the Diagnostic routine and perform data cleanup in the M environment. After data is cleaned up, re-run the migration process again. 			
(OR)			
<ul style="list-style-type: none"> Run the Convert Data step. 			
Run the Verify Data step to verify that there is no data loss or corruption.	_____	_____	
Run the M Diagnostic Summary and Detail reports again <i>in the VistA legacy application</i> .	_____	_____	
Task	Assigned To	Due Date	Comments
Compare the M Diagnostic reports from before and after the migration to ensure the data has not changed.	_____	_____	

Evaluate the migration results to ensure that they meet the Data Migration Success Criteria. (See [2.9. Data Migration Success Criteria](#))

Obtain sign-off on the results of the data migration.

Finalize the data migration.

In production, continue to monitor the application and the data.

2.7 Overview of Steps in the M Environment

Before You Begin: Complete all the preparation tasks in section 2.4 Preparation Checklist before you begin the data migration process.

For descriptions and instructions for installing Patches 15, 16, and 17, see the documentation bundled with the patches or see Appendix E of this document.

For assistance using Patch 15 to diagnose and clean up data in the M environment, see the *PRPF Data Diagnostic Patch User Guide*.

Staff at the local site complete the following data migration steps in the M environment as shown in yellow (shaded) shapes in the Figure 2-2. This is an iterative process. Cycle through these steps repeatedly until you are confident that your data will migrate successfully.

1. **Diagnostics:** Run the diagnostic routine in the M environment to check for errors, such as invalid date format or missing social security number (SSN).
2. **Review:** Review the summary and detailed error reports that are produced by the diagnostic routine to identify errors that need to be corrected before migrating data to the reengineered application.
3. **Cleanup:** Use the M-system menu options to clean data by correcting any data errors found in the summary and detailed error reports produced by the diagnostic routine.

Notes: Cleanup should be performed by staff members who understand the data and the business rules. If necessary, authorized users can clean up the data by going into the M code using standard processes and documenting changes. It is important to correct any data that violates the rules imposed by the FileMan data dictionary's input transform for a field. Such data errors could cause the migration process to fail.

4. **Repeat** steps 1 through 3 to diagnose, review, and clean up data until you are satisfied that the data is clean enough to migrate to the new database.

2.8 Overview of Steps in Reengineered Environment

Once staff at the local site determine that data is clean and that it meets migration standards, the designated VistAMigrate user completes the data migration steps in the reengineered environment as shown in the un-shaded shapes in Figure 2-2. For details about using VistAMigrate, see Chapter 4. Migrating Data Using VistAMigrate.

Complete these steps in VistAMigrate:

1. Run **M Diagnostics** to verify that the data is clean and ready for migration.
2. Run **M Extract** to extract the data from the M environment and view the extract results.
3. Run **Stage Data** to move the extracted data into the Oracle staging database.
4. Run **Analyze Data** to run diagnostics on the staged data to check for errors in the Oracle staging environment.
5. Run **Convert Data** to move the data from the Oracle staging database to the Oracle production database.
6. Run **Verify Data** to run diagnostics on the production data to check for errors in the Oracle production environment.
7. **Final Steps:** Business owners and other stakeholders determine whether the results look accurate and whether the site is ready to finalize the migration:
 - **Start Over:** If the site is not ready to finalize the migration, restart the process.
 - **Finalize:** If the site is ready, finalize the migration, begin using the reengineered application, and use M Patch 17 to disable data entry in the legacy application.

2.9 Data Migration Success Criteria

The data migration success criteria must be met in order to proceed with using the reengineered application in a production environment.

- ☐ No records failed to load or were unaccounted for.
- ☐ None of the data was corrupted.
- ☐ None of the data (individual field values) was lost.
- ☐ All transformations to the data can be traced to a business rule.
- ☐ All fields derived from calculations are accurate.

Note: If some records fail to load, it is expected that users will re-enter identified missing records in the VPFS system. For related information in Business Rules, refer to [Appendix B Business Rules](#).

3. Performing Diagnostics and Data Cleanup in the M Environment

Diagnostics and data cleanup is an iterative process that typically requires several cycles of error checking and correcting before data for the site can be migrated. The Diagnostic routine checks all of the data for a number of identified errors that may prevent the data from migrating successfully. The Data Diagnostic Report produces both a summary and a detailed report, that you use as a reference to locate and correct data errors. You can print or view the reports online.

Generally, you use the VistA menu options to correct errors. However, if this is not feasible, ask your local ADPAC representative to coordinate the cleanup of data owned by other groups.

Note: All data cleanup cycles must be completed 2 weeks prior to the beginning of the actual data migration for the site. Several days before cutover, there will be one more run of the Diagnostic routine to check the data quality prior to beginning the data migration process.

To access the Patient Funds Diagnostic reports:

1. Log on to PFOP as PRPF Supervisor.
2. Open the Patient Funds Supervisor Menu [PRPF SUPERVISOR].
3. Select **PRPF DATA DIAGNOSTIC REPORT**.
After a short period, dots appear to indicate that the report is running, the Patient Funds Diagnostic Summary report is displayed. The `DEVICE:` prompt appears.
4. Do any of the following:
 - Let the report print to the screen using ;132;999, then copy and paste the report to a text editor.
 - Turn on capture to file in KEA.
 - Enter a printer name to print both the summary and detail versions of the Patient Funds Diagnostic Summary report.
`DEVICE: <your_printer>`
Both reports are printed on the printer you specified. File the reports in the site's data migration binder.
 - Enter a file name to save both the reports to file.
`DEVICE: <folder/file_name>`
A file containing both versions of the report is saved to the location and file name that you specified.
 - To exit without saving or printing the reports, enter the caret symbol (^).

Note: For additional information, refer to the *PRPF Data Migration Patch User Guide*.

3.1 Patient Funds Diagnostic Summary Report

The Patient Funds Diagnostic Summary report is designed to be a quick and easy way for you to validate all data that will be involved with the migration of the Patient Funds package to the new VPFS application.

3. Performing Diagnostics and Data Cleanup in the M Environment

The diagnostic report generates a Summary Report, which is intended to be a quick reference to the amount of data elements that are not validating correctly. The Summary Report contains the total number of patient accounts processed and the total balance of all patient accounts at the time the summary was generated. For a sample of this report, see Appendix D.

3.2 Patient Funds Diagnostic Detail Report

At the end of the summary report a prompt appears asking if you would like to generate the detail report. Typically, the error count in the summary report provides all the information that you need to view your progress in cleaning up data and generating the detail report is not necessary.

Note: The detail report can be quite large. Before you generate the detail report, check the notation at the end of the summary report indicating how many lines will be in the detail report. (See the highlighted text in the sample below.)

```
*****
NOTE: In addition to the summary report there is an available detail report, this report can be
sent to any device or flat file if required.
```

```
>>>>> The detail diagnostic report will contain 2550 lines.
```

```
If you still desire the detail report, then please input the name of the device that the report
will be sent to.
```

```
If the detail report is not desired then input "^" at the device prompt and the detail report
will not print.
```

```
DEVICE:
*****
```

To access the detail report, at the DEVICE prompt, do one of the following:

- To display the report on the screen, accept the defaults.
- To print the report, enter the name of a printer.
- To save the report to a flat file, enter a file name.
- To return to the Supervisor's Menu without displaying, printing, or saving the report, enter ^.

The detail report records consist of a series of data fields (STATION ID, ERR#, NAME, DESC, VALUE) . Each field is separated by the delimiter “^”. All detail records can be imported into a spreadsheet and sorted or generated into other reports. The detail report is sorted by default in the order of Station-id then by error number and then by patient name. For a sample of this report, see Appendix D.

- **PFOP data:** If an asterisk (*) appears by the error number on the summary report, the data for the field is owned by PFOP and can be edited by PFOP. Patient Funds staff can use the appropriate VistA Patient Funds menu options to correct the data for each patient.
- **Non- PFOP data:** If no asterisk (*) appears by the error number on the summary report, the data for the field is not editable by Patient Funds staff. Contact your ADPAC to coordinate changes to data that is owned by other packages.

3. Performing Diagnostics and Data Cleanup in the M Environment

3.3 Correcting Patient Funds Errors

This section provides tips for correcting errors in the M environment.

Note: If you cannot correct the error through the local VistA legacy application, or if there are too many of a certain type of error to correct easily manually, follow the appropriate chain of command to escalate the issue. This may include asking the EVS team for assistance.

- Use the appropriate VistA Patient Funds menu options to make your corrections.
- It is highly recommended that you keep a log of the corrections you make and store the log in your site's Data Migration binder. The log should note what the errors were, who corrected them, and the date corrected.
- Decide how to handle cases where required data is missing. You may decide to replace missing data with a default value. For example: If a date field is missing the day part of the date, provide a default day value such as "01." Be sure to document your decisions and document any data that you will need if you decide to re-enter any records or data after cutover.
- Repeat the Diagnosis and Data Cleanup process until the Summary Report shows a count of 0 for any actual errors, or until the site data owners have decided that the data is sufficiently clean to migrate even if it still contains errors that will not stop the automated migration process.
- It is recommended that you hold a weekly data cleanup review to share findings with other sites to improve the process and to ensure successful migration for all sites. Sites can work together to:
- Develop consistent approaches for specific kinds of errors. For example: In the case of missing data in the day field, sites may decide to make the correction the same way, such as entering 1 for a missing day.
- Share frequently asked questions (FAQs).
- Recommend modifications to diagnostic routines.

4. Migrating Data Using VistAMigrate

Once your site data owners have approved data for migration to the reengineered environment, you are ready to proceed with the migration steps in the reengineered environment. Use the VistAMigrate software tool to migrate data.

Note: Contact the system administrator for your site to gain access to VistAMigrate. This application uses the same access and verify codes that you use to access your VistA system, however an additional security key (PRPF_DATA_MIGRATION_USERS) is required.

4.1 Accessing VistAMigrate

To access VistAMigrate:

1. Open a web browser and go to **http://<host>:<port>/vistaMigrate/**
The VistAMigrate Login page opens.

U.S. Government Computer System

U. S. government systems are intended to be used by authorized government network users for viewing and retrieving information only, except as otherwise explicitly authorized for official business and limited personal use in accordance with policy. Information from these systems resides on and transmits through computer systems and networks funded by the government. All access or use constitutes understanding and acceptance that there is no reasonable expectation of privacy in the use of Government networks or systems.

The data and documents on this system include Federal records that contain sensitive information protected by various Federal statutes, including the Privacy Act, 5 U.S.C. § 552a, and veterans' records confidentiality statutes such as 38 U.S.C. §§ 5701 and 7332. Access to the data and records is on a need-to-know basis only.

All access or use of this system constitutes user understanding and acceptance of these terms and constitutes unconditional consent to review and action including (but not limited to) monitoring, recording, copying, auditing, inspecting, investigating, restricting access, blocking, tracking, disclosing to authorized personnel, or any other authorized actions by all authorized government and law enforcement personnel.

Log on for: VistAMigrate

Enter access code:

Enter verify code:

Institution: VA CENTRAL PLAINS HEALTH NETWORK - OMAHA DIVISION (636) *

* Persistent Cookie Used ([more information](#)).

Figure 4-1. VistAMigrate Login Page

2. Enter your VistAMigrate login information:
 - a. **Enter access code:** Enter the VistAMigrate access code for the site.
 - b. **Enter verify code:** Enter the VistAMigrate verify code for the site.
3. **Institution:** Select the site from the dropdown list of institutions.
4. Click **Login**.
The Pick Project page opens.



Figure 4-2. VistAMigrate Pick Project page

5. Select from the dropdown list, the reengineered application to which you want to migrate data.
6. Click **OK**.
Loading... flashes on the page while the application loads, then one of the following occurs:
 - If this is the first or a restarted VistAMigrate session for the site, the Welcome page opens. Continue with the next section.
 - If the data migration process was previously started for the site, the page opens for the last step accessed. Continue with the section for that step.

4.2 VistAMigrate Welcome Page

The VistAMigrate Welcome page provides the following:

- A banner across the top of the page displays migration status information for your site. This banner appears on all VistAMigrate pages and is refreshed with current information as you move through the data migration steps. See Section 1. Banner for more information.
- A navigation bar in the left panel of the page provides access to steps in the data migration process. This navigation bar appears on all VistAMigrate pages and displays your progress through the data migration steps. See Section 4.2.2 Navigation Bar for more information.
- Overview text appears in the main panel of the Welcome page providing an overview of the data migration steps. This area of the page will display logs and reports as you move through the migration steps. See Section 4.2.3 Description of Steps for more information.

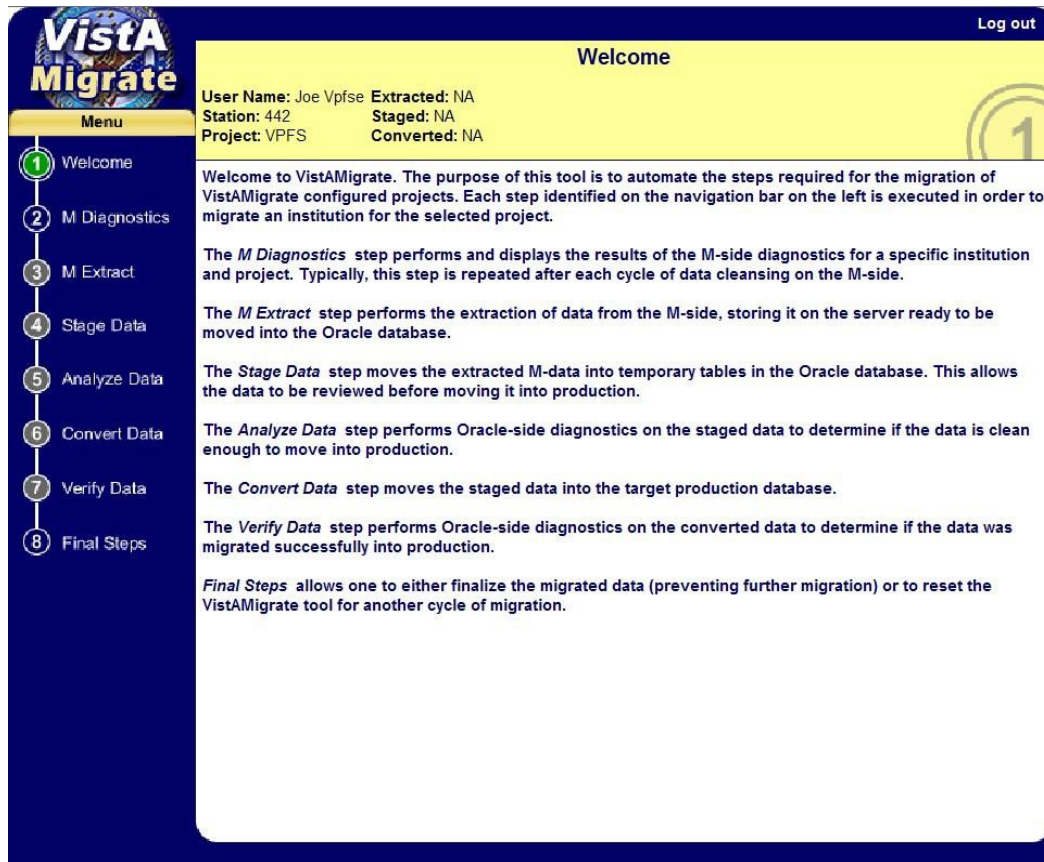


Figure 4-3. VistAMigrate Welcome page

4.2.1 Banner

The Banner at the top of each VistAMigrate page displays migration status information for the site that you are logged into. Status information is updated as you move through the data migration steps:

- **User Name:** The name of the user associated with the Access Code used to log in.
- **Station:** A code identifying the site/institution.
- **Project:** The name of the reengineered application to which you are migrating data.
- **Extracted:**
 - **Main Records:** Total number of patient funds accounts extracted from the VistA legacy database.
 - **Total Records:** Total number of data records in the extract file. This number includes records of all types (patient demographics, patient account information, income source information, transactions, remarks, suspense data, etc.). Each patient will have multiple data records in the extract file; the number of records is determined by the data for that patient.
- **Staged:** Total number of records moved using structure query language (SQL)*Loader to the Oracle staging tables for analysis. The number of Main Records should match the number of Main Records extracted. The number of Total Records includes a header record and will, therefore, be one greater than the total number of records extracted.

- **Converted:** Total number of records converted and moved from the Oracle staging tables to the Oracle production tables. After you complete the data migration, this number may be less than the total number of Staged records because records with errors will have been removed.

4.2.2 Navigation Bar

Use the navigation bar in the left panel to access the steps in the VistAMigrate data migration process. The steps must be performed in sequence from top to bottom. For example: You must perform the M Diagnostics step within the VistA Migrate application before you can perform the M Extract step, and the M Extract step before you can perform the Stage Data step. You can, however, start over at any point.

Note: Selecting a step will not automatically run that step. You need to click the Run button for that step to run it.

Selecting a step that has already been run will display the report for the previous run and give you the option to re-run that step.

4.2.2.1 Starting Over

The steps of the data migration process are iterative. Repeat the steps as many times as necessary to make sure the data is clean for a successful migration. When you repeat a step, data that was previously reported is cleared. For example: If you repeat step 2 M Diagnostics, any data reported from previous routines in steps 3-7 will be cleared. Another way to clear data is to click the **Start Over** button on the Final Steps page. You can go to the Final Steps page and start over any time during the data migration process as long as the migration has not been finalized.

The steps on the navigation bar are color coded as follows:

- **Green:** Indicates that no action is required. The Welcome step is always green.
- **Blue:** Indicates that the task is enabled and available for use.
- **Yellow:** During processing, yellow swirls in the blue circle on the navigation bar indicating that the system is working on the task. When the system is done, the navigation circle becomes solid yellow until you complete the step.
- **Gray:** Indicates that the task is disabled until predecessor actions are performed.
- **Red:** Indicates that an error was returned and displayed. You cannot go on to the next step until the error is corrected.

4.2.3 Description of Steps

- **Welcome:** Read the overview provided on the VistAMigrate Welcome page.
- **M Diagnostics:** Perform this step to check data in the M environment for errors. Repeat this step each time you correct data.
- **M Extract:** Perform this step to extract your clean data from the M environment. Repeat this step each time you correct data.

- **Stage Data:** Perform this step to move extracted data to the staging database. Repeat this step each time you extract data.
- **Analyze Data:** Perform this step to run diagnostics on the data that you moved to the staging database to determine whether your data is clean enough to move to production. Repeat this step each time you stage data.
- **Convert Data:** Perform this step to move data from the staging database to the production database.
- **Verify Data:** Perform this step to run Oracle-side diagnostics to determine whether the data was migrated successfully into the production database.
- **Final Steps:** After you have determined whether the data was migrated successfully, use this step to do one of the following:
 - **Start Over:** If you determine that data was not migrated successfully, reset VistAMigrate and start the entire process over.
 - **Finalize:** Once you determine that data was migrated successfully, finalize the data migration.

Note: This step will prevent any future data migration.

4.2.4 Process Running Indicator

When you click the **Run** button to run a step in VistAMigrate, the process running indicator appears until the process is completed.



Figure 4-4. Process Running Indicator

To stop the process and reload the previous results, click the button on the right of the indicator.

4.3 M Diagnostics

In this step you run the M diagnostic routine to check for errors in the data in the VistA legacy database.

This step produces diagnostic reports that list errors based on the business rules in Appendix B. As previously noted, this generates the same reports as the new VistA option released with patch PRPF*3.0*15. See Appendix D for sample reports.

Use the diagnostic summary and detail reports that are produced by this routine:

- During data cleanup, to evaluate the state of a site's data. The goal is that each time you run the report after data cleanup, the error count will change to reflect the error correction.
- After data cleanup, to determine whether the data can be successfully migrated and cutover can take place.

Important: M Diagnostics does not modify data; it is a reporting tool only.

Any changes to be made for data cleanup must be made to the data in VistA. Refer to the Minimum Requirements to Migrate listed in the business rules for the criteria each field must meet to successfully migrate. The business rules are located in Appendix B in this document, or in the PRPF Data Diagnostic Patch User Guide that accompanies patch PRPF*3.0*15.

To run M Diagnostics:

1. In the navigation bar in the left panel, click **2 M Diagnostics**. The M Diagnostics page opens.
 - If Run Diagnostics has *not* been run on this site before or if you are starting over, no reports will be shown.
 - If Run Diagnostics has been run on this site before, the most current diagnostic reports are shown from a previous or the current VistAMigrate session.



Figure 4-5. M Diagnostics page

2. Click the **Run Diagnostics** button.

The M diagnostic routines run. Once complete, the Summary and Detail tabs appear on the page with the Patient Funds Diagnostic Summary Report displayed.

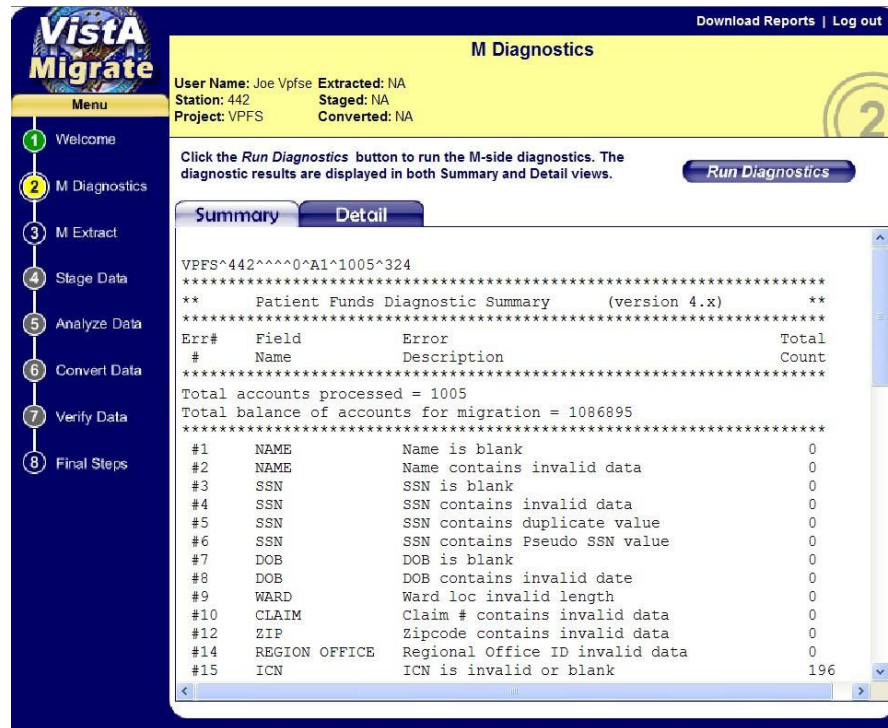


Figure 4-6. M Diagnostics Page with Sample Diagnostic Summary Report

3. Do the following:

- Review the Diagnostic Summary Report. This report shows counts for each of the error conditions identified.
- Click the **Detail** tab to review the Detail report. This report shows selected data for each record containing an error.
- Optional: Click **Download Reports** to download a zip file containing both reports. Save the file to an appropriate location, naming it so that it is identifiable as a Diagnostic Summary and Detail report.

Note: These reports are UNIX-formatted text files. They will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the reports, change the page orientation to landscape.

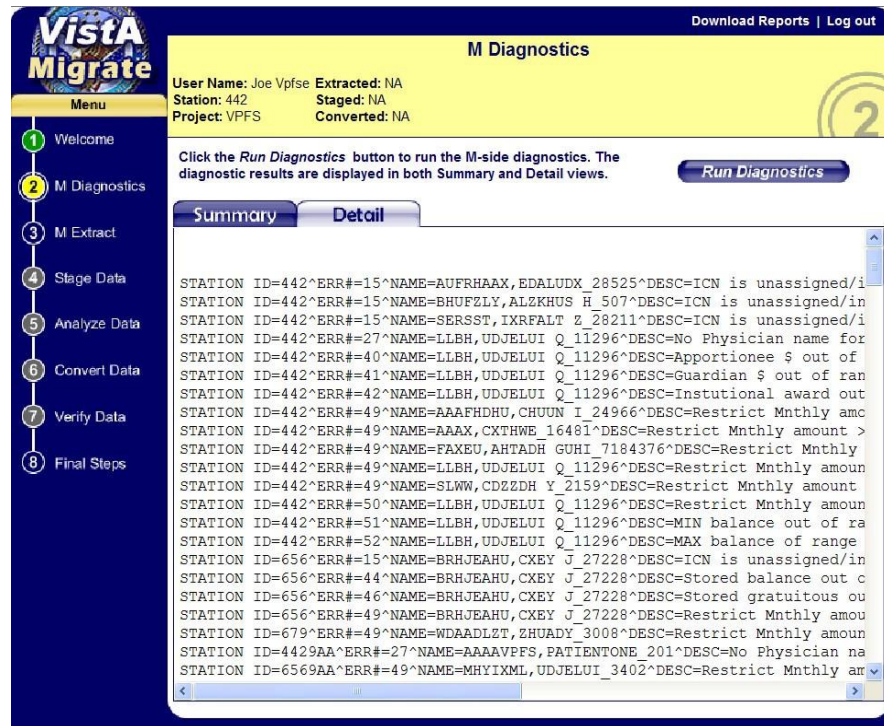


Figure 4-7. M Diagnostics Page with Detail Report

4.4 M Extract

In this step you execute the M Extract routine that extracts a copy of the data to be migrated from the VistA legacy environment to an extract file that will be used by the Stage Data step.

The report for this step shows the contents of this extract file exactly as it was transferred from VistA. In most cases you would only need to review this report to validate specific data values after completing the migration process, or to determine the cause of an error found during migration.

Important: M Extract does not modify data.

To run M Extract:

1. In the navigation bar in the left panel, click **3 M Extract**. The M Extract page opens.
 - If M Extract has *not* been run on this site before or if you started over, no data will be shown.
 - If M Extract has been run on this site before, the most current data are shown from a previous or the current VistAMigrate session.



Figure 4-8. M Extract Page

2. Click **Run Extract**.

The M extract routines run. Once complete, the extract results appear on the page. Use the vertical scroll bar to view the full list of results on the page. If a large amount of data has been extracted, there may be left and right arrows at the bottom of the page you can use to move through the pages of data (use the right arrow to go to the next page of data, or the left arrow to go to the previous page).

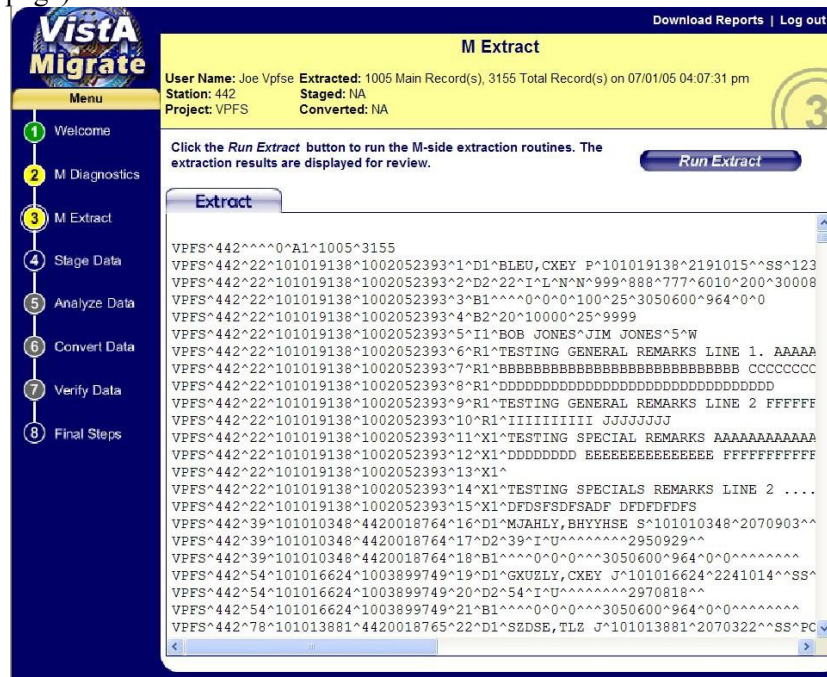


Figure 4-9. M Extract Page with Extract Results

3. Do the following:

- Review the Extract results.
The fields in the Extract report are delimited by the circumflex character (^). If a record has null values in the field(s) at the end of the record, the ^ is not necessarily repeated. For a sample of this report, see Appendix D.
- Optional: Click **Download Reports** to download a zip file containing the report. Save the file to an appropriate location, naming it so that it is identifiable as an Extracts report.

Note: This report is a UNIX-formatted text file. It will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the report, change the page orientation to landscape.

4.5 Stage Data

In the Stage Data step, you execute the Run Data Staging process, which uses Oracle SQL*Loader to read the data from the file generated by the M Extract routine and load the data into temporary (staging) tables in the Oracle database. These tables correspond to the record types in the extract file. No records are excluded by validation requirements at this point, since the aim is to bring all of the data into the Oracle environment for analysis.

Run Data Staging generates two files that appear on the Stage Data page:

- The **Log file**: SQL*Loader generates this file, which lists the number of records that loaded or failed to load in each table, including the conditions applied to each. This is a critical step in the verification of the migration as it ensures that no records are lost.
- The **Bad file**: SQL*Loader generates this file if any records were rejected from the load because they contained errors. These errors may be caused by data that is too long for a particular field, or data that contains control characters (such as new line, etc.). Do not edit the extract file to try to fix any rejected records! Instead, site owners must correct the data in PFOP and repeat the data migration process.

To move migrated data to the staging tables:

1. In the navigation bar in the left panel, click **4 Stage Data**. The Stage Data page opens.
 - If Stage Data has *not* been run on this site before or if you started over, no data will be shown.
 - If Stage Data has been run on this site before, the most current data are shown from a previous or the current VistAMigrate session.



Figure 4-10. Stage Data page

2. Click **Run Data Staging**.

The Stage Data routines run. Once complete, the **Log** tab and log file appear.

If any records with errors were present, the **Bad** tab also appears.



Figure 4-11. Stage Data Page with Log File

3. Do the following:

- Review the Stage Data Log file.
 - The first part of this report shows a list of all the staging tables, including the column names, position, maximum length and data type.
 - Following this is a list of records that were rejected or discarded from the staging tables, along with an explanation of the error that caused the record to be rejected. If any records were rejected, those records need to be reviewed and the reason they were rejected should be understood. You may need to look at the Extract report, or back in the VistA files.
 - Rejected records are typically caused by a particular piece of data exceeding the maximum length for that field.
 - Discarded records are those that do not fit the record format for any of the known record types. This is typically caused by a line-feed or other control character in the data.
 - Next, the report shows a table-by-table summary of how many rows were loaded or rejected from each table.
 - At the bottom of the log, there are 4 lines summarizing the total logical records skipped, read, rejected, or discarded. Rows not loaded due to data errors will be counted in the total records rejected.
- If the **Bad** tab is displayed, click the Bad tab to view the list of records containing errors. Information in this report can help you find the reason that records were rejected.
- Optional: Click **Download Reports** to download a zip file containing both of the reports.

Note: These reports are UNIX-formatted text files. They will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the reports, change the page orientation to landscape.

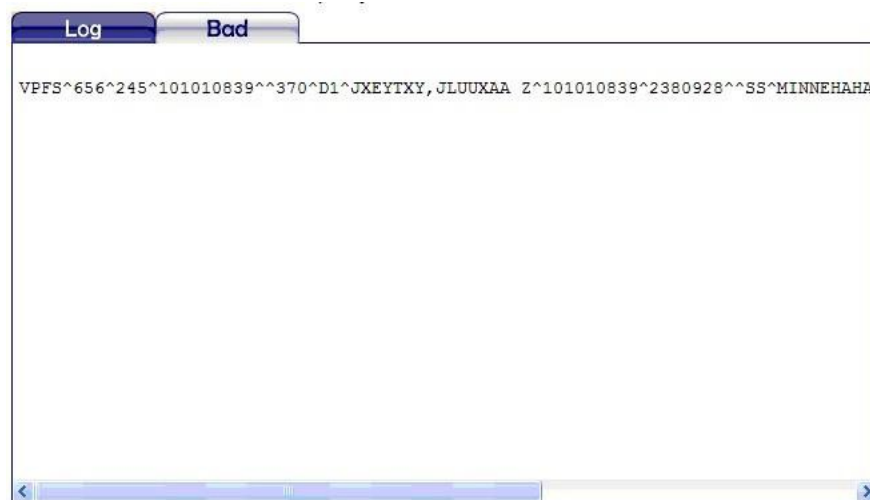


Figure 4-12. Stage Data Page with Bad File Data

For samples of these reports, see Appendix D.

4.6 Analyze Data

After you run Stage Data to load the extracted data into the temporary staging tables in the Oracle database, use the Analyze Data step to check the staged data to make sure it meets the Minimum Requirements to Migrate detailed in the business rules listed in Appendix B. This process produces a report listing each business rule and errors or warnings for any records violating that rule.

To analyze the staged data:

1. In the navigation bar in the left panel, click **5 Analyze Data**. The Analyze Data page opens.
 - If Analyze Data has *not* been run on this site before or if you started over, no data will be shown.
 - If Analyze Data has been run on this site before, the most current data are shown from a previous or the current VistAMigrate session.



Figure 4-13. Analyze Data Page

2. Click **Run Data Analysis**.

The Data Analysis routines run. Once completed, the Log tab and VPFS – Analyze Report appear.

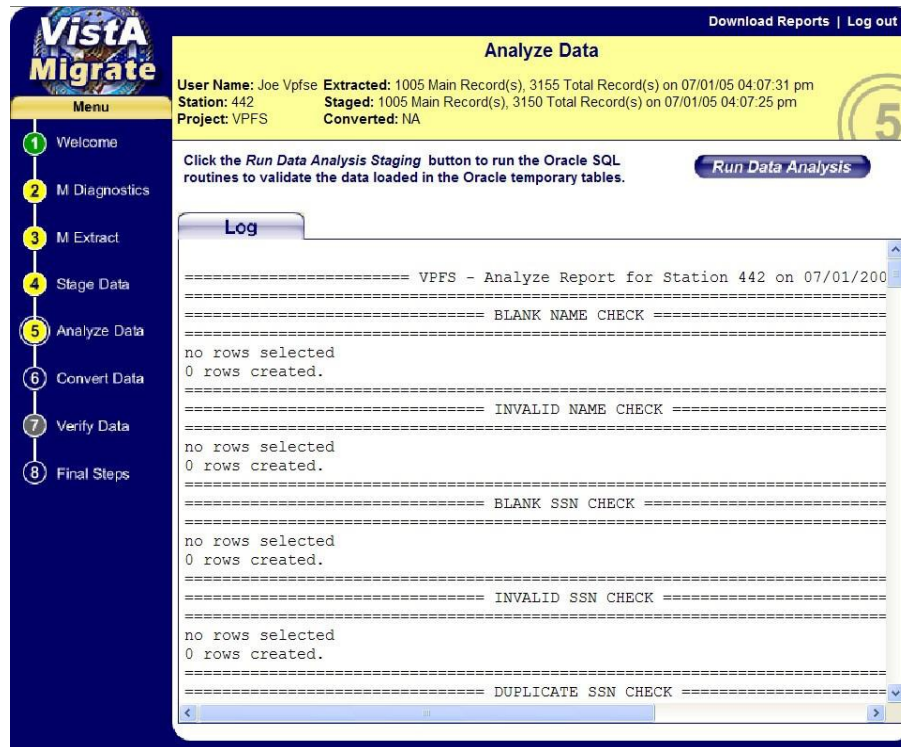


Figure 4-14. Analyze Data Page with VPFS – Analyze Report

3. Do the following:

- Review the Analyze Report.
 - Each section of this report checks a different data validation criteria or business rule. The report will display both error and warning conditions. Errors will prevent a patient from being migrated, warnings are informational. If there are any records listed for a given item, those records need to be reviewed and the reason they appear in the report should be understood. Refer to the business rules in Appendix B for a description of each item. This report can also be compared against the M Diagnostics reports that were generated in the first step of the migration.
 - At the end of the report are some informational sections providing a higher level view of the data being migrated. Compare the Total Account Balance (under Total for All Accounts) against the Total balance of accounts for migration line at the top of the M Diagnostic Summary. Also compare the number of deferred transactions (under Total for All Accounts) against the number of deferred transactions (line item 46) in the Diagnostic Summary. These values should be equal.
- Optional: Click **Download Reports** to download a zip file containing the report.

Note: This report is a UNIX-formatted text file. It will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the report, change the page orientation to landscape.

For a sample of the Analyze Data report, see Appendix D.

4.7 Convert Data

This step populates the Oracle production tables with converted data from the temporary staging tables. The conversion procedure will format the data as needed by VPFS, converting VistA dates to Oracle dates, assigning default values to replace blanks, etc., according to the business rules listed in Appendix B. After you are satisfied that there are no errors in the Oracle staging environment, use the Convert Data step to move the data to the Oracle production environment.

Important: Any patients identified as having data with errors during the Analyze Data step will be removed from the staging tables and will not be migrated during the Convert Data routine or appear in the Convert Data log. A file containing the extracted data records for the rejected patients will be available after you run this step. Be sure to use the **Download Reports** option to save a copy of this log at that time.

To move data to the Oracle production environment:

1. In the navigation bar in the left panel, click **6 Convert Data**. The Convert Data page opens.
 - If Convert Data has *not* been run on this site before or if you started over, no data will be shown.
 - If Convert Data has been run on this site before, the most current data are shown from a previous or the current VistAMigrate session.



Figure 4-15. Convert Data Page

2. Click **Run Data Conversion**.

The Data Conversion routines run. Once complete, the Results tab and Results file appear. If any records with errors were present, the Errors tab also appears.



Figure 4-16. Convert Data Page with Results

3. Do the following:

- Review the Convert Data **Results**.

This shows a “progress report” as each type of data is processed. Verify that each process completed successfully. If any process failed, the **Errors** tab will contain a technical description of any errors. Contact the EMC technical representative.

- If the Errors tab is displayed, click the Errors tab to view the list of records containing errors.
- Optional: Click **Download Reports** to download a zip file containing the reports and the file containing the patient records that had errors during the Analyze Step.

Note: These reports are UNIX-formatted text files. They will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the reports, change the page orientation to landscape.



Figure 4-17. Convert Data Page with Errors

The Errors report displays each error and identifies the procedure in which it occurred. For samples of the Convert Data reports, see Appendix D.

4.8 Verify Data

This step executes a script that checks the migrated production data for a variety of potential migration and conversion errors. The log that is produced by this step provides all of the following data:

- Non-migrated patient account list
- Patient account list
- Inactive accounts with non-zero balances
- Transactions list
- Deferred transactions list
- Account balances check
- Migrated totals check
- Income source check
- Remarks count check
- Non-converted special remarks list
- Non-converted general remarks list

To verify data in the Oracle production environment:

1. In the navigation bar in the left panel, click **7 Verify Data**. The Verify Data page opens.
 - If Verify Data has *not* been run on this site before or if you started over, no data will be shown.
 - If Verify Data has been run on this site before, the most current data are shown from a previous or the current VistAMigrate session.



Figure 4-18. Verify Data Page

2. Click **Run Data Verification**.

The Data Verification routines run. Once complete, the Log tab and Log file appear.

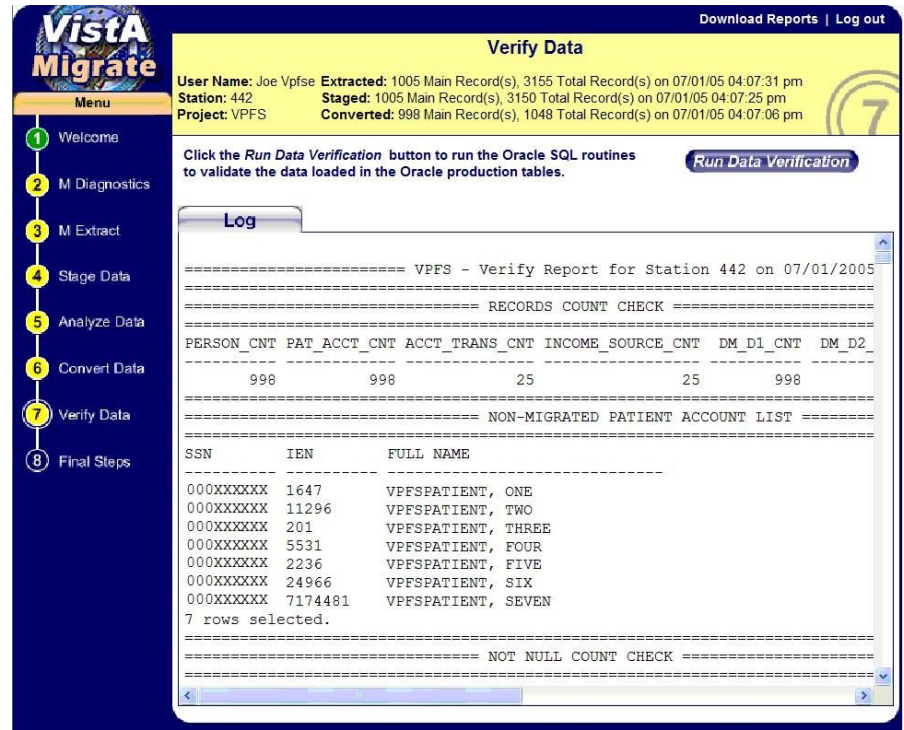


Figure 4-19. Verify Data Page with Log

3. Do the following:

- Review the Verify Report. This report is intended to allow you to verify that the patient data was migrated as expected.
 - The list of patients that were not migrated is shown in the Non-migrated Patient Account List section. This list should match the Patient Accounts with Errors section of the Analyze report.
 - The list of patients that migrated successfully is shown in the Patient Account List section.
 - Compare the Total of Account Balances, Number of Deferred Transactions, and Total of Deferred Amounts in the Migrated Totals Check section against the values in the Total for Migrated Accounts section in the Analyze report.
- Optional: Click **Download Reports** to download a zip file containing the report.

Note: This report is a UNIX-formatted text file. It will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

Before you print the report, change the page orientation to landscape.

For samples of the VPFS Verify Data Report produced by Verify Data, see Appendix D.

4.9 Final Steps

This step provides two options:

- **Finalize:** Choose the Finalize option only if you are ready for final cutover.
- **Start Over:** Choose the Start Over option if you need to clear all previous runs and start the VistAMigrate data migration process over with M Diagnostics.

Prior to choosing **Finalize**, re-run the M Diagnostic reports **from the VistA legacy application**. Compare the M Diagnostic reports from before and after the migration process to verify that additional deferred transactions have not been created in PFOP during the migration process and that data has not been corrupted during the conversion. Some of the data values may not be identical. Analyze any discrepancies and verify that the changes are due to documented business rules. See Appendix B for business rules.

To perform the final steps:

1. In the navigation bar in the left panel, click **8 Final Steps**.
The Final Steps page opens.



Figure 4-20. Final Steps Page

4.9.1 Finalizing Data Migration

To finalize data migration and cut over to VPFS:

Caution: You will no longer be able to run/re-run migration if you choose the **Finalize** option!

- Click **Finalize**.
The Finalize routines run. When complete:
 - A message is displayed indicating that the data migration is finalized.
 - The reengineered application is available for your site to register patients and manage accounts.
 - VistAMigrate routines are disabled for this institution. The circles for the steps in the navigation bar become green. You will be able to access the step pages, to view and download the final reports.
 - Contact your local IRM staff to install Patch 17. Data entry in the VistA legacy application is disabled for this institution. Legacy data is available for viewing and reporting only.

Note: When a site has finalized the migration in step 8 of the data migration process, VistAMigrate will disallow any further migrations of PFOP data into VPFS for that site. At this point, the PRPF_DATA_MIGRATION_USERS security key should be removed

from the legacy VistA accounts for all users at that site to disable user access to VistAMigrate.

-
- Click **Download Reports**. This will download a zip file containing all reports and files generated during the migration process.

Note: These files are UNIX-formatted text files. They will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

4.9.2 Resetting VistAMigrate to Start Over

To clear all previous data migration runs for this institution and start over:

Important! Be sure to click **Download Reports** to download a zip file containing all reports and files generated during the migration process.

Note: These files are UNIX-formatted text files. They will not appear correctly in NotePad. Use WordPad or another application such as Excel that can display UNIX-formatted text correctly.

- Click **Start Over**.
The Start Over routines run. The system clears any data from prior runs, including files and database data, and resets the counts.

Appendix A. Frequently Asked Questions

The following table provides answers to the most frequently asked questions about data migration.

Table A-1. Frequently Asked Questions

Question	Answer
Will I be able to use the VistA legacy application after cutover?	After cutover, the VistA legacy application will be available for viewing data and running reports, but data entry will be disabled.
What happens to the legacy data if the migration fails at cutover?	If the actual migration <i>cutover</i> fails, the VistA legacy application will be turned back on with all of its current functionality.
If we use the reengineered application for a while and then something goes wrong, can we go back to the legacy application?	No. Once you start using the reengineered application, the legacy data becomes out of sync with the new data. Moving between the two systems would make reconciliation of data difficult. You may be asked to perform functions manually while the problem is being fixed and tested. Once the reengineered application is made available to you again, you will need to enter your manual records into the system.
How will we regain the data we entered in the reengineered application in the event of a failure?	The database will be backed up on a nightly basis. If either the database or the application goes down, the last database backup can be restored and the data extracted.
After cutover, will dual / parallel systems be run until it is determined that the reengineered application is stable?	No. However, the reengineered application will be closely monitored through several business cycles (e.g. reconciliations) to determine that it is stable. It is recommended that you print reports frequently so that you can track the data you have entered.
How should I report defects I discover during field testing?	Remedy will be used in field testing and reported to the VPFS team and tracked also in ClearQuest. A process is being developed which will be followed.

What support is provided during field testing?	During field testing, the Rapid Response Team will provide help during business hours nationwide. Plans for support of the production system after cutover are TBD.
What are the criteria for deciding to go ahead in production?	See Section 2.9 Data Migration Success Criteria.

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Appendix B. Migration Business Rules

The table in this appendix is intended for users who are ready to attempt to migrate their data to the reengineered environment. It lists the minimum requirements that each data element must meet for a record to be migrated to the new database.

Unless otherwise stated, blank values are allowed.

Note: The diagnostic routine that you run via the new menu option Database Diagnostic Report [PRPF DATA DIAGNOSTIC REPORT] and in VistAMigrate will identify invalid or missing data. Data not meeting the Minimum Requirements to Migrate in the table below needs to be corrected because records not meeting these requirements will *not* be migrated to VPFS.

Migration Business Rules

Table B-1. Migration Business Rules

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
1	470	NAME, #.01	Patient name cannot be blank.	Patient name cannot be blank.	Pointer to File 2
2	470	NAME, #.01	Patient name cannot contain values other than alpha characters, one comma, apostrophe, and space after first name. Must be 3-30 characters,	Patient name must be 3-30 characters.	Some names being migrated will contain data that is considered invalid now (special characters) but was valid in the past. Pointer to File 2
3	470	SSN, #50	SSN cannot be blank.	SSN cannot be blank.	Computed from File 2, #.09
4	470	SSN, #50	SSN must be 9 digits.	SSN must be 9 digits or 9 digits followed by a 'P' to allow for pseudo-SSN.	Allow 'P' as an optional 10 th character for pseudo-SSN. Computed from File 2, #.09

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
5	470	SSN, #50	SSN cannot be a duplicate.	SSN cannot be a duplicate at <i>any</i> station.	Computed from File 2, #.09
6	470	SSN, #50	SSN contains pseudo SSN value.	Not an error; pseudo-SSN values are allowed.	Computed from File 2, #.09
7	470	DOB, #51	DOB cannot be blank.	DOB cannot be blank.	Computed from File 2, #.03
8	470	DOB, #51	DOB must be a valid VistA date.	DOB must be 7 digits, in VistA date format. Imprecise dates will be defaulted to the first of the month or year during migration.	Imprecise dates having a '00' for the month and/or day will be defaulted to '01'. Computed from File 2, #.03
9	470	WARD, #52	Ward must be 2-30 characters.	Ward must be 2-30 characters.	Computed from File 2, #.1
10	470	CLAIM NUMBER, #53	Claim Number must be 'SS' or 7-9 digits.	Claim Number must be 'SS' or 7-9 digits.	Computed from File 2, #.313
11	470	ZIP CODE, #59	ZIP Code must be 5 digits.	Not migrated.	Computed from File 2, #.116
12	470	REGIONAL OFFICE, #8	NA	Not migrated.	
13	2	INTEGRATION CONTROL NUMBER (ICN), #991.01	ICN cannot be a duplicate.	ICN cannot be duplicate at <i>any</i> station.	

14	2	ICN, #991.01	ICN must be at least 1 character.	ICN must be 1-10 digits, optionally followed by a 'V' and a 6 digit checksum. An additional 6 digit prefix and 6 digit suffix are allowed for future use.	Allows current ICN format (10V6), with or without the checksum, and future ICN format (16V12).
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ID	File	Field	PFOF / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
15	470	PROVIDER AUTH RESTRICT, #10.7	Provider Name cannot contain values other than alpha characters, one comma, apostrophe, and space. (Must meet VistA standard naming requirements.)	Provider Name must be 3-30 characters.	M Diagnostic Summary: item only validates name if present. This field can be blank. It is not associated with item #20 and will not increment the report counter if an error is registered on item #20. Pointer to File 200 source.
16	470	DATE OF CURRENT RESTRICTION, #10.5	Date of Current Restriction must be a valid VistA date.	Date of Current Restriction must be 7 digits in VistA date format. Imprecise dates are not allowed. Cannot be blank if patient type is restricted (R) or limited unrestricted (L).	Month or day cannot be 00.
17		Demographic record	Missing demographic record for account. Record must be present.	Demographic record must exist for account.	
18	470	ACCOUNT STATUS, #1	Account Status must be A, I or blank.	Account Status must be A, I, or blank. Blanks will be defaulted to A during migration.	A nightly update process will set active/inactive: if zero balance & no transactions for 30+ days, set to I. The number of blank entries will be displayed in the M Diagnostic Summary and Analyze Report.

19	470	PATIENT TYPE, #2	Patient Type must be L, R, U, X or blank.	Patient Type must be L, R, U, X, or blank. Blanks will be defaulted to U during migration.	The number of blank entries will be displayed in the M Diagnostic Summary and Analyze Report.
20	470	PROVIDER AUTH RESTRICT, #10.7	Provider Name cannot be blank if the Patient Type is restricted or limited unrestricted.	Provider Name cannot be blank if the Patient Type is restricted (R) or limited unrestricted (L).	

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
21	470	PATIENT STATUS, #3	Patient Status must be A, R, C, N, X or blank.	Patient Status must be A, R, C, N, X, or blank. Blanks will be defaulted to X during migration.	The number of blank entries will be displayed in the M Diagnostic Summary and Analyze Report.
22	470	INDIGENT, #4	Indigent indicator must be Y, N or blank.	Indigent must be Y, N, or blank. Blanks will be defaulted to N during migration.	The number of blank entries will be displayed in the M Diagnostic Summary and Analyze Report.
23	470	APPORTIONEE \$, #5	Apportionee \$ cannot be less than 0 or greater than 99,999.00.	Apportionee \$ must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Populates income source type and amount during conversion.
24	470	GUARDIAN \$, #6	Guardian \$ cannot be less than 0 or greater than 99,999.00.	Guardian \$ must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Populates income source type and amount during conversion.

25	470	INSTITUTION AWARD, #7	Institutional Award \$ cannot be less than 0 or greater than 99,999.00.	Institutional Award \$ must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Populates income source type and amount during conversion.
26	470	OTHER ASSETS, #9	Other Assets \$ cannot be less than 0 or greater than 99,999.00.	Other Assets \$ must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Populates income source type and amount during conversion.

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
27	470	STORED BALANCE, #14	Stored Balance cannot be less than 0 or greater than 99,999.	Stored Balance must be a number must be a number greater than or equal to 0, or blank. If blank, will default to 0. A warning will be displayed if value is greater than 99,999. Must equal sum of Stored Private Source Balance and Gratuitous Source Balance.	Blank value will default to 0.
28	470	STORED PRIVATE SOURCE, #15	Stored Private Source Balance cannot be less than 0 or greater than 99,999.	Stored Private Source Balance must be a number greater than or equal to 0, or blank. If blank, will default to 0. A warning will be displayed if value is greater than 99,999.	Blank value will default to 0.

29	470	STORED GRATUITOUS, #16	Stored Gratuitous Balance cannot be less than 0 or greater than 99,999.	Stored Gratuitous Balance must be a number greater than or equal to 0, or blank. If blank, will default to 0. A warning will be displayed if value is greater than 99,999.	Blank value will default to 0.
30	470	AMOUNT RESTRICTED PER MONTH, #17	Amount Restricted / Month cannot be less than 0 or greater than 99,999.	Amount Restricted / Month must be a number between 0 and 99,999.	Blank value means no restriction limit.
31	470	AMOUNT RESTRICTED PER WEEK, #18	Amount Restricted / Week cannot be less than 0 or greater than 99,999.	Amount Restricted / Week must be a number between 0 and 99,999.	Blank value means no restriction limit.
32	470	AMOUNT RESTRICTED PER MONTH / WEEK, #17, 18	Restricted Monthly Amount cannot be less than 5 times the Weekly Amount.	Display a warning if the Restricted Monthly Amount is less than 5 times the Weekly Amount.	

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
33	470	AMOUNT RESTRICTED PER MONTH / WEEK, #17, 18	Restricted Monthly Amount cannot be less than the Weekly Amount.	Restricted Monthly Amount cannot be less than the Weekly Amount.	
	470	MONTHLY RESTRICTION BALANCE 1, #21	NA	Monthly Restricted Balance cannot be less than 0 or greater than 99,999.	Not checked in M Diagnostic.
	470	WEEKLY RESTRICTION BALANCE 1, #22	NA	Weekly Restricted Balance cannot be less than 0 or greater than 99,999.	Not checked in M Diagnostic.

34	470	MINIMUM BALANCE #1;#23	Minimum Balance cannot be less than 0 or greater than 99,999.	Minimum Balance must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Blank value means no minimum balance.
35	470	MAXIMUM BALANCE #1, #24	Maximum Balance cannot be less than 0 or greater than 99,999	Maximum Balance must be a number greater than or equal to 0, or blank. A warning will be displayed if value is greater than 99,999.	Blank value means no maximum balance.
36	470	Balance record	Missing balance record for account. Record must be present.	Balance record must exist for account.	
37	470	PAYEE, #1 of SubFile INCOME SOURCE #470.05	Income source Payee cannot be blank.	Income source Payee cannot be blank.	
38	470	AMOUNT, #2 of SubFile INCOME SOURCE, #470.05	Income source Amount cannot be blank.	Income source Amount cannot be blank.	

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
39	470	AMOUNT, #2 of SubFile INCOME SOURCE, #470.05	Income Amount cannot be less than 1 or greater than 99,999.00.	Income Amount must be a number greater than or equal to 0. A warning will be displayed if value is greater than 99,999.	PFOP does not allow values less than 1 but checks for values less than 1 are possible.
40	470	FREQUENCY, #3 of SubFile INCOME SOURCE, #470.05	Income source Frequency must be D, W, M, Y, X, V, O or blank.	Income source Frequency must be D, W, M, Y, X, V, O or blank.	M Diagnostic Summary: The number of blank entries will be displayed in the summary.

41	470	STATION NAME, #73	Station ID cannot be blank or unassigned.	Station ID must be a valid station ID*.	* If blank, parent station ID will be inserted as the default station ID during migration. M Diagnostic: Although the Summary Report does count these errors, they are not displayed in the Detail Report to save space. Pointer to File 4.
42	470	STATION NAME, #73	Station ID must be valid. (Must exist in File 4, Institution table.)	Station ID must be a valid station ID*. Station ID must be the division ID being migrated or a child of that station. (Must exist in the SDS Institution table.)	* If blank, parent station ID will be inserted as the default station ID during extraction. Pointer to File 4.
	470	GENERAL INFORMATION/ REMARKS, #34	NA	General Remarks cannot be more than 2000 characters.	Not checked by M Diagnostic A Description that is too long will be truncated to 2000 characters during migration.

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
	470	SPECIAL REMARKS, #35	NA	Special Remarks cannot be more than 2000 characters.	Not checked by M Diagnostic A Description that is too long will be truncated to 2000 characters during migration.
43	470	SUSPENSE DATE, #.01 of SubFile SUSPENSE DATE, #32	Suspense Date must be a valid VistA date.	Suspense Date must be 7 digits in VistA date format. Imprecise dates are not allowed. Cannot be blank.	Detail report contains two types of errors reported: 43.1 - Suspense date is blank 43.2 - Suspense date is not valid

44	470	ITEM ID, #.01 of SubFile ID, #470.04, of SubFile SUSPENSE DATE, #32	Suspense ID cannot be blank or more than 40 characters.	Suspense ID cannot be blank or more than 50 characters.	Detail report contains two types of errors reported: 44.1 - Suspense ID is blank 44.2 - Suspense ID < 1 or > 40 characters
45	470	FULL DESCRIPTION, #1, of SubFile ID, #470.04, of SubFile SUSPENSE DATE, #32	Suspense Text cannot be blank or more than 255 characters.	Suspense Text cannot be blank or more than 255 characters.	Detail report contains two types of errors reported: 45.1 - Suspense description is blank 45.2 - Suspense description < 1 or > 255 characters Maximum length cannot be verified in the Analyze Report. A Description that is too long will be truncated to 255 characters during migration.
		Invalid suspense item	NA	Cannot have a Suspense Item record (S2) without a corresponding Suspense Date record (S1).	Not checked by M Diagnostic. Verify the integrity of the suspense records in the extraction file.

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
46	470	DEFERRED CREDIT REF #, #31	Display a count of the deferred transactions.	NA	M Diagnostic Summary: Shows count of deferred transactions. Is not an error and does not display in the Detail Report.

47	470.1	Transaction record	Missing transaction record or record is blank. Record must be present. Deferred Credit Reference Number must match the Transaction ID.	NA	See comment below:
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47 - Comment

Master Transaction IDs should always be the same as the Deferred Credit Reference Number with an 'M' appended to the end. The 'M' is stripped off when doing this check.

Important Note: If you find that there are deferred transactions that have Master Transaction IDs (.01 field of file 470.1) that do not match the Deferred Credit Reference number (the .01 field of an entry in file 470 field 31, which is also the IEN of file 470.1) this indicates:

1. The Master transaction counter in file 470.3 is out of sync. This must be corrected or the counter will continue to be incorrect for all future transactions in Patient Funds. Each site has the following two options for resolving this matter:
 - a. Correct the transaction counter by contacting IRM to register a Remedy ticket. This is recommended so transactions will be in sync for future transactions.
 - b. Leave the transaction counter out of sync. This option is not recommended but is acceptable. If transactions are not corrected, transactions will be out of sync in VistA but will have no negative effect on VPFS data or the Patient Funds migration.
2. Master Transaction IDs do not match the Deferred Credit Reference Numbers. Each site has the following three options for resolving this matter:
 - a. Let the deferred transaction clear or move up the deferred date so the transaction will clear sooner.
 - b. Correct the transactions that do not have a matching Master Transaction ID by contacting IRM to register a Remedy ticket. This is recommended so transactions in the past will be in sync.
 - c. Leave the transactions that do not have matching Master Transaction IDs unchanged. This option is not recommended but is acceptable. If transactions are not corrected transactions will be out of sync in VistA but this will have no negative effect on VPFS data or the Patient Funds migration.

ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment
48	470.1	PATIENT NAME, #1	Patient name must match the deferred transaction name.	NA	Pointer to PATIENT FUNDS FILE, #470 which is a pointer to PATIENT FILE, #2

49	470.1	TRANSACTION ID, #.01	Transaction ID cannot be blank. Transaction ID must match the transaction ID for the patient account.	NA	
50	470.1	AMOUNT, #3	Transaction Amount cannot be blank, less than .01 or greater than 99,999.	Transaction Amount must be a number between 0 and 99,999 and cannot be blank. Must equal sum of Private Source Amount and Gratuitous Source Amount.	
	470	LAST TRANSACTION DATE, #	NA	Last Transaction Date must be 7 digits, in VistA date format. Imprecise dates are not allowed.	Not checked in M Diagnostic.
	470.1	DEFERRAL DATE, #19	NA	Deferral Date must be 7 digits, in VistA date format and cannot be blank. Imprecise dates are not allowed.	Not checked in M Diagnostic.
51	470.1	TRANSACTION DATE, #4	Transaction Date must be a valid VistA date and cannot be blank.	Transaction Date must be 7 digits, in VistA date format and cannot be blank. Imprecise dates are not allowed.	
52	470.1	DATE TRANSACTION ENTERED, #5	Transaction Entered Date must be a valid VistA date and cannot be blank.	Transaction Entered Date must be 7 digits, in VistA date format and cannot be blank. Imprecise dates are not allowed.	
53	470.1	REFERENCE, #6	Reference must be 1-10 characters and cannot be blank.	Reference must be 1-10 characters and cannot be blank.	
ID	File	Field	PFOP / M Diagnostic Business Rule	VPFS Business Rule (Minimum Requirements to Migrate)	Comment

54	470.1	DEPOSIT/ WITHDRAWAL, #7	Deposit/Withdrawal field must be D or W and cannot be blank.	Deposit/Withdrawal field must be D or W and cannot be blank.	
55	470.1	CASH/CHECK/ OTHER, #8	Cash/Check/Other field must be 1, 2, or 3 and cannot be blank.	Cash/Check/Other field must be 1, 2, or 3 and cannot be blank.	
56	470.1	SOURCE, #9	Transaction Income Source must be P, G, or B and cannot be blank.	Transaction Income Source must be P, G, or B and cannot be blank.	
57	470.1	FORM, #10	Form cannot be blank and must be a value in the standard Form list (user-maintained, in table).	Form cannot be blank. Display warning if Form value is not in the standard Form list in VPFS.	Form is a pointer to File 470.2.
58	470.1	PRIVATE SOURCE AMT, #11	Private Source Amount cannot be less than .01 or greater than 99,999 but can be blank.	Private Source Amount must be between 0 and 99,999. Either the Private or Gratuitous Amount must <i>not</i> be blank.	
59	470.1	GRATUITOUS AMOUNT, #12	Gratuitous Source Amount cannot be less than .01 or greater than 99,999 but can be blank.	Gratuitous Amount must be between 0 and 99,999. Either Private or Gratuitous Amount must <i>not</i> be blank.	
60	470.1	PATIENT FUNDS CLERK, #13	Patient Funds Clerk cannot be blank and must exist in File 200.	Patient Funds Clerk must be 3-35 characters and cannot be blank.	Pointer to NEW PERSON FILE, #200

Appendix C. Extraction File Layouts

PFOP Extraction File Layout, VPFS Mapping

Table C-1. PFOP Extraction File Layout, VPFS Mapping

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING									
KEY: A1 - header T1 - transaction 1 R1 - general remarks 1 D1 - demographics 1 S1 - suspense 1 R2 - general remarks 2 D2 - demographics 2 S2 - suspense 2 X1 - special remarks 1 B1 - balance 1 S3 - suspense 3 X2 - special remarks 2 B2 - balance 2 I1 - income 1									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
A1	1	"VPFS"							
	2	Station ID							
	3	version and run date							
	4	filler							
	5	filler							
	6	rec #						"0"	
	7	rec type						"A1"	
	8	# patient accounts processed							
	9	total # recs in file							

		VistA job #						(internal VistAMigrate use only)	
D1	1	"VPFS"							
	2	Station ID						All records include Station ID, or IEN, SSN, and ICN linking.	y
	3	IEN			person	ien_id			

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from VistA
	4	SSN			person	ssn_nbr			
	5	ICN			person	icn			
	6	rec #							
	7	rec type						"D1"	
	8	name	30		person, patient_account	full_nm	vc 150	Uppercase Populate patient_account_nm patient_upper_last_nm patient_account.patient_cd (first character of last name, last 4 digits of SSN not counting in the 'P').	y

	9	SSN	11	y	person	ssn_nbr	vc 9	Change to 10. Accommodate pseu which have a P on o-SSNs, e th Digits 1-9 end. numeric, d git 10 = 'P'	y
	10	DOB	7		patient_account	birth_dt	date	Standard M date for at. For example: 22103 3 (03/03/1921) where first digit indicates century (1=18, 2=19, 3=20) date." Check for "imprecise	y
	11	ward	30		patient_account	ward_nm	vc 30	Uppercase 2-30 chars	y

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: A1 - header T1 - transaction 1 R1 - general remarks 1 D1 - demographics 1 S1 - suspense 1 R2 - general remarks 2 D2 - demographics 2 S2 - suspense 2 X1 - special remarks 1 B1 - balance 1 S3 - suspense 3 X2 - special remarks 2 B2 - balance 2 I1 - income 1									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	12	claim #	9		person	claim_nbr	vc 11		y
	13	address 1	35					Address fields are n t migrated (address 1-3, city, st te, zip) since these will be rereshed on first use and/or the fi st night.	y
	14	address 2	30						y

	15	address 3	30						y
	16	city	15						y
	17	state	30						y
	18	zip	10						y
	19	prov name	30		patient_account	physician_nm	vc 100		
	20	division id			patient_account	station_cd	vc 10	Also converted to instn_id via institution table, set in person, patient_account, etc.instn_id field.	y
		n/a			patient_account	patient_cd	vc 5	First char of last name, last 4 digits of SSN (excluding the P N). in position 10 of SS	
D2	1	"VPFS"							
	2	Station ID						All records include Station ID, IEN, SSN, and ICN for linking.	
	3	IEN							

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY:	A1 - header	T1 - transaction 1	R1 - general remarks 1
	D1 - demographics 1	S1 - suspense 1	R2 - general remarks 2
	D2 - demographics 2	S2 - suspense 2	X1 - special remarks 1
	B1 - balance 1	S3 - suspense 3	X2 - special remarks 2
	B2 - balance 2	I1 - income 1	

Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"D2"	
	8	patient IEN		y	person	ien_id	n 18		
	9	account status	1	y	patient_account	acct_status_ind	vc 1	Upper: I, A Default = A	
	10	patient type	1		patient_account	patient_type_cd	vc 1	Upper: L, R, U, X Default = U	
	11	patient status	1		patient_account	patient_status_cd	vc 1	Upper: A, R, C, N, X Default = X	
	12	indigent	1		patient_account	indigent_ind	vc 1	Upper: Y, N Default = N	
	13	apportionee \$	9,2		income_source	income_source_amt	n 18,2	income_source.inco e_source _txt = 'APPORTION E' and income_source.inco e_source _amt = appor\$	
	14	guardian \$	9,2		income_source	income_source_amt	n 18,2	income_source.inco e_source _txt = 'GUARDIAN' and income_source.inco e_source _amt = guard\$	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING									
KEY: A1 - header T1 - transaction 1 R1 - general remarks 1 D1 - demographics 1 S1 - suspense 1 R2 - general remarks 2 D2 - demographics 2 S2 - suspense 2 X1 - special remarks 1 B1 - balance 1 S3 - suspense 3 X2 - special remarks 2 B2 - balance 2 I1 - income 1									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	15	institut award \$	9,2		income_source	income_source_amt	n 18,2	income_source.inco e_source _txt = 'OTHER ASS TS' and income_source.inco e_source _amt = other assets\$	
	16	regional office	7		patient_account	patient_ro_cd	vc 5	Corresponds to institution.station_cd but no FK	
	17	other assets \$	9,2		income_source	income_source_amt	n 18,2	income_source.inco e_source _txt = 'INSTITUTIONAL AWARD' and income_source.inco e_source _amt = institut award\$	
	18	date of last trans			patient_account	last_trans_entered_dt	date	M date conversion, imprecise date check	
	19	date of current restr			patient_account	current_restriction_dt	date	M date conversion, imprecise date check	
	20	prov IEN						Do not migrate.	
	21	prov converted						Do not migrate.	

B1	1	"VPFS"							
	2	Station ID						All records include S ation ID, IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY:

A1 - header	T1 - transaction 1	R1 - general remarks 1
D1 - demographics 1	S1 - suspense 1	R2 - general remarks 2
D2 - demographics 2	S2 - suspense 2	X1 - special remarks 1
B1 - balance 1	S3 - suspense 3	X2 - special remarks 2
B2 - balance 2	I1 - income 1	

Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	5	ICN							
	6	rec #							
	7	rec type						"B1"	
	8	bal carr fwd	10,2					Do not migrate.	
	9	priv carr fwd	10,2					Do not migrate.	
	10	grat carr fwd	10,2					Do not migrate.	

	11	stored bal	10,2	y	patient_account	total_balance_amt	18,2	Default = 0 Use to create initial bal - deferred that is migrated separately) /w: (stored being Can use to check: V bal should be same FS stored amount (chk in temp s this able).	
	12	stored priv	10,2	y	patient_account	private_source_balance_amt	18,2	Default = 0 as above for private.	
	13	stored grat	10,2	y	patient_account	gratuitous_balance_amt	18,2	Default = 0 as above for gratuito us.	
	14	amt restr per month	8,2		patient_account	monthly_restriction_limit_amt	18,2		
	15	amt restr per week	8,2		patient_account	weekly_restriction_limit_amt	18,2		

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista

	16	restriction month	9 (date)				Do not migrate.	
	17	restriction week #	4				Do not migrate.	
	18	monthly restr balance	8,2		patient_account	actual_monthly_restriction_amt	18,2	Default = 0
	19	weekly restr balance	8,2		patient_account	actual_weekly_restriction_amt	18,2	Default = 0
B2	1	"VPFS"						
	2	Station ID					All records include Station ID, or IEN, SSN, and ICN linking.	
	3	IEN						
	4	SSN						
	5	ICN						
	6	rec #						
	7	rec type					"B2"	
	8	min bal 1	9,2		patient_account	min_one_limit_amt	18,2	
	9	max bal 1	9,2		patient_account	max_one_limit_amt	18,2	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	10	min bal 2	9,2					Do not migrate	
	11	max bal 2	9,2					Do not migrate	
T1	1	"VPFS"							
	2	Station ID						All records include S ation ID, IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"T1"	
	8	deferred date						Same as deferral date at end of record.	
	9	trans id	12		account_transaction	master_trans_cd	vc 20		
	10	patient IEN							

	11	patient trans #	5,0					Do not migrate.	
	12	amount	10,2		account_transaction	trans_amt	18,2	Default = 0	
	13	trans date	date		account_transaction	trans_dt	date	M date conversion, imprecise date check	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div style="display: flex; flex-wrap: wrap;"> <div style="flex: 1; min-width: 150px;"> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 </div> <div style="flex: 1; min-width: 150px;"> T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 </div> <div style="flex: 1; min-width: 150px;"> R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div> </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	14	date trans entered	date		account_transaction	trans_entered_dt	date	M date conversion, imprecise date check	
	15	ref	7		account_transaction	reference_txt	vc 35		
	16	d/w	1		account_transaction	trans_type_ind	vc 1	Upper: D, W	
	17	c/c/o	1	y	account_transaction	payment_type_cd	vc 1	1, 2, 3 (= cash, chec , other, but store number)	
	18	source	1		account_transaction	source_type_ind	vc 1	Upper: P, G, B	
	19	form	11		account_transaction	form_nbr	vc 12		

	20	priv amt	7		account_transaction	private_source_amt	18,2	Default = 0	
	21	grat amt	7		account_transaction	gratuitous_amt	18,2	Default = 0	
	22	pfc	14		account_transaction	user_id	vc 12	Turn off any trigger (uch as to "sys").	
	23	e-sig	30					Do not migrate.	
	24	rmks	35		account_transaction	trans_rmks_txt	vc 255		
	25	validation code	20					Do not migrate.	
	26	bal carr fwd	10,2					Do not migrate.	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <div>A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2</div> <div>T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1</div> <div>R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2</div> </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/ len	Conversion Rules	from Vista
	27	priv bal carr fwd	10,2					Do not migrate.	
	28	grat bal carr fwd	10,2					Do not migrate.	

	29	deferral date	date		account_transaction	deferral_dt	date	M date conversion, imprecise date check	
	30	signature conversion completed	1					Do not migrate.	
	31	signature code date/time	date/ time (char 20)					Do not migrate.	
					account_transaction	countin_deferred_balance_ind	vc 1	Default = Y for migration only (since we have only deferred recs)	
					account_transaction	countin_restricted_balance_ind	vc 1	No default. Will be used as user start to do withdrawals. Only deposits being migrated (deferred, and store migrated balance)	
					account_transaction	running_balance_amt	18,2	Populated by trigger.	
S1	1	"VPFS"						Each suspense date record (S1) can have multiple suspense items (S2) associated with that date.	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY:

A1 - header	T1 - transaction 1	R1 - general remarks 1
D1 - demographics 1	S1 - suspense 1	R2 - general remarks 2
D2 - demographics 2	S2 - suspense 2	X1 - special remarks 1
B1 - balance 1	S3 - suspense 3	X2 - special remarks 2
B2 - balance 2	I1 - income 1	

Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	2	Station ID						All records include Station ID, IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"S1"	
	8	suspense date	date		suspense	suspense_dt	date	M date conversion, imprecise date check	
S2	1	"VPFS"							
	2	Station ID						All records include Station ID, or IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"S2"	
	8	item ID	40		suspense	item_nm	vc 50	Must be unique within IEN and suspense date.	

	9	full descr	127		suspense	item_desc_txt	vc 255	Suspense item desc iptions e may be split to creat uspense	
--	---	------------	-----	--	----------	---------------	--------	---	--

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: A1 - header T1 - transaction 1 R1 - general remarks 1 D1 - demographics 1 S1 - suspense 1 R2 - general remarks 2 D2 - demographics 2 S2 - suspense 2 X1 - special remarks 1 B1 - balance 1 S3 - suspense 3 X2 - special remarks 2 B2 - balance 2 I1 - income 1									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
								description extensio (S3) records if they are too long. Concatenate with . S3	
S3	1	"VPFS"							
	2	Station ID						All records include S ation ID, or IEN, SSN, and ICN f inking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"S3"	
	8	item ID	40		suspense	item_nm	vc 50	Match with S2.	
	9	full descr	127		suspense	item_desc_txt	vc 255	Concatenate with . S2	

I1	1	"VPFS"							
	2	Station ID						All recs include station id, ien, ssn, for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY:

A1 - header	T1 - transaction 1	R1 - general remarks 1
D1 - demographics 1	S1 - suspense 1	R2 - general remarks 2
D2 - demographics 2	S2 - suspense 2	X1 - special remarks 1
B1 - balance 1	S3 - suspense 3	X2 - special remarks 2
B2 - balance 2	I1 - income 1	

Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	7	rec type						"I1"	
	8	income source	25		income_source	income_source_txt	vc 50		
	9	payee			income_source	payee_nm	vc 50		
	10	amount	8,2		income_source	income_souce_amt	18,2	Default = 0.	
	11	freq	1		income_source	freq_cd	1	Upper: D, W, M, Y, , V, O X	

R1	1	"VPFS"							
	2	Station ID						All records include S ation ID, IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"R1"	
	8	gen rmks	127		patient_account	general_rmks_txt	255	Remarks may be spl t to create extension (R2) records if they are too long. Concatenate with R2.	
R2	1	"VPFS"							
	2	Station ID						All recs include stati n id, ien, ssn, for linking.	

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING

KEY: <div> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/ len	Conversion Rules	from Vista

	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"R2"	
	8	gen rmks						Multiple remarks extension (R2) records can exist for each R1. Concatenate with R1.	
X1	1	"VPFS"							
	2	Station ID						All records include Station ID, or IEN, SSN, and ICN linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"X1"	
	8	spec rmks	127		patient_account	special_rmks_txt	2000	Remarks may be split to create extension (X2) records if they are too long. Concatenate with X2.	
X2	1	"VPFS"							

Appendix C. Extraction File Layouts

PFOP EXTRACTION FILE LAYOUT - VPFS MAPPING									
KEY: <div> A1 - header D1 - demographics 1 D2 - demographics 2 B1 - balance 1 B2 - balance 2 T1 - transaction 1 S1 - suspense 1 S2 - suspense 2 S3 - suspense 3 I1 - income 1 R1 - general remarks 1 R2 - general remarks 2 X1 - special remarks 1 X2 - special remarks 2 </div>									
Rec Type	M Extr Field #	M Extr Field	M Len	V req	V Table	V Field	V type/len	Conversion Rules	from Vista
	2	Station ID						All records include S ation ID, IEN, SSN, and ICN for linking.	
	3	IEN							
	4	SSN							
	5	ICN							
	6	rec #							
	7	rec type						"X2"	
	8	spec rmks						Multiple remarks extension (X2) records can exist for each X1. Concatenate with X1.	

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Appendix D. VistAMigrate Report Samples

This appendix contains sample portions of the reports, logs, and error files produced by the routines that you perform while moving through the data migration process in VistAMigrate.

Diagnostic Summary Report

This report is accessed in both of the following ways:

- **In the VistA legacy application:** Select the function Database Diagnostic Report.
- **In VistAMigrate:** Select step 2 M Diagnostics

The Diagnostic Summary Report lists the number of occurrences for each type of error, and also lists how many deferred transactions are to be migrated (this is not an error). The following table lists descriptions of the information in the fields on the Diagnostic Summary Report.

Table D-1. Description of Diagnostic Summary Report

Field	Description
Error #	Code assigned to the error type.
Field Name	Name of the field where the error occurred.
Error Description	Description of the error.
Total Count	Number of occurrences of the specific type of error.
Total Accounts processed =	Total number of patient records processed by the M diagnostics routine.

```

VPFS^442^^^0^A1^1006^155^000666625
*****
**      Patient Funds Diagnostic Summary LEGACY RPC      (version 5.9)      **
*****
Run Date: FEB 27, 2006  Run Time: 10:30:01                               **
Total accounts processed = 1006                                         **
Total balance of accounts for migration =$1,085,425.00                 **
*****
Err#    Field      Error                                         Total
#       Name       Description                                       Count
*****
#1      NAME       Name is blank                                           1
#2      NAME       Name contains invalid data                             3
#3      SSN        SSN is blank                                           0
#4      SSN        SSN contains invalid data                             0
#5      SSN        SSN contains duplicate value                             0
#6      SSN        SSN contains Pseudo SSN value                             0
#7      DOB        DOB is blank                                           0
#8      DOB        DOB contains invalid date                             0
#9      WARD       Ward loc invalid length                             0
#10     CLAIM      Claim # contains invalid data                             0
#11     ZIP        Zipcode contains invalid data                             0
#12     REGION OFFICE  Regional Office ID invalid data                             0
#13     ICN        ICN Duplicate                                           0
#14     ICN        ICN invalid or blank                                           1
#15     PROVIDER AUTHR  Provider Name contains invalid data                         15
*#16    PROVID AUTH DT  Date of current restriction invalid date                       0
*#17    NO BALANCE REC  Balance record data missing                                   0
*#18    ACCOUNT STATUS  Account status not (A),I,Blank=0                             0
*#19    PATIENT TYPE   Patient type not L,R,(U),X,Blank=197                         0

```

*#20	PAT TYPE/PHY	Patient type L or R without Phy name	5
*#21	PATIENT STATUS	Patient Status not A,R,C,N, (X), Blank=722	0
*#22	INDIGENT	Indigent status not (N), Y, Blank=722	0
*#23	APPORTIONEER \$	Apportionee amount < \$0 or > \$99,999	2
*#24	GUARDIAN \$	Guardian amount < \$0 or > \$99,999	2
*#25	INSTITUT AWARD	Institutional award < \$0 or > \$99,999	2
*#26	OTHER ASSETS	Other assets < \$0 or > \$99,999	1

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*#27	STORED BALANCE	Stored balance < \$0 or > \$99,999	3
*#28	STORED PRIVATE	Stored private < \$0 or > \$99,999	1
*#29	STORED GRATUIT	Stored gratuitous < \$0 or > \$99,999	2
*#30	RESTRCT MONTH	Restricted Monthly < \$0 or > \$99,999	0
*#31	RESTRCT WEEKLY	Restricted Weekly < \$0 or > \$99,999	0
*#32	RESTRCT AMT ER	Restrict Mnthly amount > (5X) weekly amt	32
*#33	RESTRCT AMT ER	Restrict Mnthly amount < weekly amt	7
*#34	MINIMUM BAL	Minimum balance #1 < \$0 or > \$99,999	2
*#35	MAXIMUM BAL	Maximum balance #1 < \$0 or > \$99,999	3
*#36	NO BALANCE REC	Balance record missing for account	0
*#37	INCOME PAYEE	Income payee blank, Income source present	1
*#38	INCOME AMOUNT	Invalid income amount, Income source present	1
*#39	INCOME AMOUNT	Income amount < \$1 or > \$99,999	0
*#40	INCOME FREQCY	Income frequency not D,W,M,Y,X,V,O, Blank=5	0
*#41	STATION ID	Station ID blank or unassigned	863
#42	STATION ID	Station ID invalid	0
*#43	SUSPENSE DATE	Suspense date has invalid date	0
*#44	SUSPENSE ID	Suspense ID has Invalid data	0
*#45	SUSPENSE TEXT	Suspense text is < 1 or > 255 characters	0
*#46	DEFERRED TRANS	There are 2 deferred transactions	2
*#47	TRANSACTION ID	Transaction ID mis-match with IEN	0
*#48	PATIENT NAME	Patient name does not match deferred trans	0
*#49	PATIENT TRANS #	Patient transaction # invalid	0
*#50	DEFR AMOUNT	Deferred amount invalid	0
*#51	TRANSACTN DATE	Transaction date Invalid	0
*#52	DT TRAN ENTD	Date transaction entered Invalid	0
*#53	REFERENCE	Reference Invalid < 1 or > 10 in length	0
*#54	DEPOSIT/WTHDRWL	Deposit/Withdrawal status Invalid	0
*#55	CASH/CHECK/OTR	Cash/Check/Other status Invalid	0
*#56	SOURCE	Transaction source invalid	0
*#57	FORM	Form does not match	0
*#58	PRVT SOURCE AMT	Private source amount invalid or < 0 or > 99999	0
*#59	GRATUITOUS AMT	Gratuitous amount invalid or < 0 or > 99999	0
*#60	PFUNDS CLERK	PFunds clerk invalid	0

Detail

The Detail report provides detail of each record in the Diagnostic Summary Report that contains an error. Use this information to diagnose the problem and locate the record containing the error so that you can correct it. The following is a sample portion of the M Diagnostic Detail report. For more information about the fields that are in the patient record, see Appendix C – Extraction File Layouts.

```
STATION ID=442^ERR#=2^NAME=AAA_X,CXTHW_16481^DESC=Patient Name contains invalid
data^VALUE=>AAA_X,CXTHW<
STATION ID=442^ERR#=15^NAME=AAA_X,CXTHW_16481^DESC=Provider name contains invalid
data^VALUE=>:TUXRS,AHXYLUI H III<
STATION ID=442^ERR#=15^NAME=FAHEU,AHTADH GUHI_7184376^DESC=Provider name contains invalid
data^VALUE=>:TUXRS,AHXYLUI H III<
STATION ID=442^ERR#=15^NAME=SLWW,CDZZDH Y_2159^DESC=Provider name contains invalid
data^VALUE=>:TUXRS,AHXYLUI H III<
STATION ID=442^ERR#=20^NAME=LLBH,UDJELUI Q_11296^DESC=No Physician name for L or R^VALUE=>R<
STATION ID=442^ERR#=23^NAME=LLBH,UDJELUI Q_11296^DESC=Apportionee $ out of range either < 0 or >
$99,999.00^VALUE=>110000<
STATION ID=442^ERR#=24^NAME=LLBH,UDJELUI Q_11296^DESC=Guardian $ out of range either < 0 or >
$99,999.00^VALUE=>120000<
STATION ID=442^ERR#=25^NAME=LLBH,UDJELUI Q_11296^DESC=Institutional award out of range either < 0
or > $99,999.00^VALUE=>130000<
```


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M Extract Results

After you run the M Extract routine, the results of the extract routine are displayed in a flat file on the M Extract page as shown below. This flat file contains the following record types. The structure of each of these records is listed in Appendix C – Extraction File Layouts.

A1 - header	T1 - transaction 1 S1	R1 - general remarks 1
D1 - demographics 1	- suspense 1	R2 - general remarks 2
D2 - demographics 2	S2 - suspense 2	X1 - special remarks 1
B1 - balance 1	S3 - suspense 3	X2 - special remarks 2
B2 - balance 2	I1 - income 1	

```

VPFS^442^(VER#4.9) RUN-DATE@TIME=FEB 27, 2006@10:30:18^^^0^A1^1006^3184^548539125
VPFS^442^22^666019138^1002052393V697258^1^D1^BLEU,CXEY P^666019138^2196665^^SS^123 EASY ST^BUILDING 1^Apartment
101^BOOMTOWN^27^54321^BRUIHS,UXKHUS Z JR^442
VPFS^442^22^666019138^1002052393V697258^2^D2^22^I^L^N^N^999^888^777^6010^200^3000822^^1728
VPFS^442^22^666019138^1002052393V697258^3^B1^^^0^0^0^100^25^3050600^964^0^0
VPFS^442^22^666019138^1002052393V697258^4^B2^20^10000^25^9999
VPFS^442^22^666019138^1002052393V697258^5^I1^BOB JONES^JIM JONES^5^W
VPFS^442^22^666019138^1002052393V697258^6^R1^GENERAL REMARKS LINE 1. AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
VPFS^442^22^666019138^1002052393V697258^7^R1^BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
VPFS^442^22^666019138^1002052393V697258^8^R1^DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
VPFS^442^22^666019138^1002052393V697258^9^R1^GENERAL REMARKS LINE 2 FFFFFFFF FFFFFFFF GGGGGGG HHHHHHHH
VPFS^442^22^666019138^1002052393V697258^10^R1^IIIIIIIIII JJJJJJJJ
VPFS^442^22^666019138^1002052393V697258^11^X1^SPECIAL REMARKS AAAAAAAAAAAAAAAAAAAAAAAAAA BBBB BBBB CCCCCCCCCC
VPFS^442^22^666019138^1002052393V697258^12^X1^DDDDDDDD EEEEEEEEEEEEEEE FFFFFFFFFFFFFFFFFFFFFFFFFF GGGGGGGGGG HHHHHHHHHH
VPFS^442^22^666019138^1002052393V697258^13^X1^
VPFS^442^22^666019138^1002052393V697258^14^X1^SPECIALS REMARKS LINE 2 ..... MMMMMMMMMMMM ,,,,,,,,,,
VPFS^442^22^666019138^1002052393V697258^15^X1^DFDSFSDFSADF DFDFDFDS

```

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Stage Data Log File

The Stage Data log file is generated by Oracle SQL*Loader. This log will provide detail about any records that were rejected. (The middle of the log file has been truncated in this example.)

Top Portion

SQL*Loader: Release 10.2.0.1.0 - Production on Mon Feb 27 10:30:55 2006
Copyright (c) 1982, 2005, Oracle. All rights reserved.

Control File: D:\vmdata\VPFS\CODE\vpfs_load_temp.ctl
Data File: D:\vmdata\VPFS\442\vpfs_extraction.txt
Bad File: D:\vmdata\VPFS\442\vpfs_stage.bad
Discard File: none specified

(Allow all discards)

Number to load: ALL
Number to skip: 0
Errors allowed: 50
Bind array: 64 rows, maximum of 256000 bytes
Continuation: none specified
Path used: Conventional

Table DM_A1, loaded when REC_TYPE = 0X4131(character 'A1')
Insert option in effect for this table: APPEND
TRAILING NULLCOLS option in effect

Column Name	Position	Len	Term	Encl	Datatype
APPLICATION_NM	FIRST	10	^		CHARACTER
STATION_ID	NEXT	10	^		CHARACTER
NEXT * ^ CHARACTER (FILLER FIELD)					
EMPTY2	NEXT	*	^		CHARACTER
(FILLER FIELD)					
EMPTY3	NEXT	*	^		CHARACTER
(FILLER FIELD)					
REC_NUM	NEXT	10	^		CHARACTER
REC_TYPE	NEXT	2	^		CHARACTER
NUM_PAT ACCNTS	NEXT	10	^		CHARACTER
NUM_RECS_IN_FILE	NEXT	10	^		CHARACTER

Table DM_D1, loaded when REC_TYPE = 0X4431(character 'D1')
Insert option in effect for this table: APPEND
TRAILING NULLCOLS option in effect

Column Name	Position	Len	Term	Encl	Datatype
APPLICATION_NM	1	10	^		CHARACTER
STATION_ID	NEXT	10	^		CHARACTER
PAT_IEN	NEXT	15	^		CHARACTER
SSN	NEXT	10	^		CHARACTER
PAT_ICN	NEXT	30	^		CHARACTER
REC_NUM	NEXT	10	^		CHARACTER
REC_TYPE	NEXT	2	^		CHARACTER
FULL_NAME	NEXT	150	^		CHARACTER
SSN1	NEXT	10	^		CHARACTER
DOB	NEXT	10	^		CHARACTER
WARD	NEXT	30	^		CHARACTER
CLAIM_NBR	NEXT	11	^		CHARACTER
ADDR1	NEXT	35	^		CHARACTER
ADDR2	NEXT	35	^		CHARACTER
ADDR3	NEXT	35	^		CHARACTER
CITY	NEXT	50	^		CHARACTER
STATE	NEXT	2	^		CHARACTER
ZIP	NEXT	35	^		CHARACTER
PROV_NAME	NEXT	100	^		CHARACTER

DIVISION ID NEXT 10 ^ CHARACTER

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Bottom Portion

Table DM S123, loaded when REC TYPE = 0X5333(character 'S3')

Insert option in effect for this table: APPEND

TRAILING NULLCOLS option in effect

Column Name	Position	Len	Term	Encl	Datatype
APPLICATION_NM	1	10	^		CHARACTER
STATION_ID	NEXT	10	^		CHARACTER
PAT_IEN	NEXT	15	^		CHARACTER
SSN	NEXT	10	^		CHARACTER
PAT_ICN	NEXT	30	^		CHARACTER
REC_NUM	NEXT	10	^		CHARACTER
REC_TYPE	NEXT	2	^		CHARACTER
ITEM_ID	NEXT	50	^		CHARACTER
ITEM_DESC					

value used for ROWS parameter changed from 64 to 49

Record 42: Rejected - Error on table DM_S123, column STATION_ID.
Field in data file exceeds maximum length

Record 43: Rejected - Error on table DM_S123, column APPLICATION_NM.
Field in data file exceeds maximum length

Record 45: Discarded - failed all WHEN clauses.

Record 47: Rejected - Error on table DM_S123, column STATION_ID.
Field in data file exceeds maximum length

Record 49: Discarded - failed all WHEN clauses.

Record 51: Discarded - failed all WHEN clauses.

Record 53: Rejected - Error on table DM_S123, column STATION_ID.
Field in data file exceeds maximum length

```
Table DM_A1:
 1 Row successfully loaded.
 0 Rows not loaded due to data errors.
3191 Rows not loaded because all WHEN clauses were failed.
 0 Rows not loaded because all fields were null.
```

```
Table DM_D1:
 1006 Rows successfully loaded.
 0 Rows not loaded due to data errors.
2186 Rows not loaded because all WHEN clauses were failed.
 0 Rows not loaded because all fields were null.
```

```
Table DM_D2:
 1006 Rows successfully loaded.
  0 Rows not loaded due to data errors.
2186 Rows not loaded because all WHEN clauses were failed.
  0 Rows not loaded because all fields were null.
```

```
Table DM_B1:
 1006 Rows successfully loaded.
   0 Rows not loaded due to data errors.
 2186 Rows not loaded because all WHEN clauses were failed.
   0 Rows not loaded because all fields were null.
```

Table DM B2:

15 Rows successfully loaded.
0 Rows not loaded due to data errors.
3177 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_I1:

15 Rows successfully loaded.
0 Rows not loaded due to data errors.
3177 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_R1_R2:

72 Rows successfully loaded.
0 Rows not loaded due to data errors.
3120 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_R1_R2:

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0 Rows successfully loaded.
0 Rows not loaded due to data errors.
3192 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_X1_X2:

24 Rows successfully loaded.
0 Rows not loaded due to data errors.
3168 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_X1_X2:

0 Rows successfully loaded.
0 Rows not loaded due to data errors.
3192 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_T1:

2 Rows successfully loaded.
0 Rows not loaded due to data errors.
3190 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_S123:

9 Rows successfully loaded.
0 Rows not loaded due to data errors.
3183 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_S123:

29 Rows successfully loaded.
4 Rows not loaded due to data errors.
3159 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Table DM_S123:

0 Rows successfully loaded.
0 Rows not loaded due to data errors.

3192 Rows not loaded because all WHEN clauses were failed.
0 Rows not loaded because all fields were null.

Space allocated for bind array: 255094 bytes (49 rows)
Read buffer bytes: 1048576

Total logical records skipped: 0
Total logical records read: 3192
Total logical records rejected: 4
Total logical records discarded: 3

Run began on Mon Feb 27 10:30:55 2006
Run ended on Mon Feb 27 10:30:56 2006

Elapsed time was: 00:00:01.24
CPU time was: 00:00:00.32

Stage Data Bad File

The Stage Data “Bad” file contains the raw records from the extract file that could not be staged. Use this file in conjunction with the Stage Data log file to determine what data is causing any rejected records.

```
IF ITEM^THIS IS TEXT FO
R A SEPERATE ITEM
IF ITEM^THERE IS A BLANK LINE BEFORE THIS ONE
IF ITEM^THIS IS A SEPERATE ITEM TEXT ENTERY WITH 2 BLANK LINES BEFORE IT.
```


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Analyze Report

The Analyze Data Report contains detail for any patient records containing warnings or errors.

===== VPFS - Analyze Report for Station 442 on 02/27/2006 10:02 AM =====

=====

===== BLANK NAME =====

=====

Rule: The Patient Name field cannot be blank.

SSN	FULL NAME	IEN	REC_NUM
NAME-MISSING-SSN#666024936		39665	2886

666024936

1 row created.

=====

===== INVALID NAME =====

=====

Rule: The Patient Name field must be between 3 and 30 characters.

no rows selected

0 rows created.

=====

===== BLANK SSN =====

=====

Rule: The SSN field cannot be blank.

no rows selected

0 rows created.

=====

===== INVALID SSN =====

=====

Rule: The SSN field must be 9 digits. An optional 10th character 'P' is allowed (for pseudo-SSN).

no rows selected

0 rows created.

```
=====
=====
=====
=====
=====
=====
=====
```

```
=====
===== DUPLICATE SSN (THIS STATION) =====
=====
Rule: Duplicate SSNs are not allowed. (Check within data for this station.)
```

no rows selected

0 rows created.

```
=====
===== DUPLICATE SSN (ANY STATION) =====
=====
Rule: Duplicate SSNs are not allowed. (Check within data at any station.)
```

no rows selected

0 rows created.

```
=====
===== PSEUDO SSN (WARNING) =====
=====
Rule: The SSN field contains a pseudo-SSN value (10th character is a 'P').
```

no rows selected

```
=====
===== INVALID ICN =====
=====
Rule: The ICN field must be between 1 to 10 digits, optionally followed by a 'V' and a 6 digit checksum.
An additional 6 digit prefix and 6 digit suffix are also allowed for future use.
```

SSN	IEN	REC_NUM	PAT_ICN
-----	-----	---------	---------

29534	2393	-1	
-------	------	----	--

666000363

1 row created.

```
=====
===== DUPLICATE ICN (THIS STATION) =====
=====
Rule: Duplicate ICNs are not allowed. (Check within data for this station.)
```

no rows selected

0 rows created.

```
=====
===== DUPLICATE ICN (ANY STATION) =====
=====
Rule: Duplicate ICNs are not allowed. (Check within data at any station.)
```

no rows selected

0 rows created.

```
=====
===== BLANK BIRTH DATE =====
=====
Rule: The DOB field cannot be blank.
```

no rows selected

0 rows created.

```
=====
===== INVALID BIRTH DATE =====
=====
Rule: The DOB field must be a valid VistA date. (Imprecise dates are allowed.)
```

no rows selected

0 rows created.

>> 0 records with an imprecise date of birth will be set to the first day of the month/year.

```
=====
===== INVALID WARD LENGTH =====
=====
Rule: The Ward field must be between 2 and 30 characters.
```

no rows selected

0 rows created.

```
=====
===== INVALID CLAIM NUMBER =====
=====
Rule: The Claim Number field must be between 7 and 9 digits or 'SS'.
```

no rows selected

0 rows created.

```
=====
===== INVALID ACCOUNT STATUS TYPE =====
=====
Rule: The Account Status field must be an 'A' or 'I'. (Blanks will be set to 'A'.)
```

no rows selected

0 rows created.

>> 0 records with a blank account status will be set to A (Active).

```
=====
===== INVALID PATIENT TYPE =====
=====
Rule: The Patient Type field must be 'L', 'R', 'U', or 'X'. (Blanks will be set to 'U'.)
```

no rows selected

0 rows created.

>> 197 records with a blank patient type will be set to U (Unknown).

=====

===== BLANK PROVIDER (FOR L/R PATIENTS) =====

=====

Rule: The Provider Name field cannot be blank for type 'L' or 'R' patients.

SSN	IEN	REC_NUM	PAT TYPE	PRVDR NAME
-----	-----	---------	----------	------------

666010009	1647	247	R	
666012001	11296	994	R	
666012006	201	50	R	
666019004	2236	346	R	
37939	2852	R		

666046008

5 rows created.

=====

===== INVALID PROVIDER NAME =====

=====

Rule: The Provider Name field must be between 3 and 30 characters.

no rows selected

0 rows created.

=====

===== BLANK CURRENT RESTRICTION DATE (FOR L/R PATIENTS) =====

=====

Rule: The Current Restriction Date field cannot be blank for type 'L' or 'R' patients.

SSN	IEN	REC_NUM	PAT TYPE	CURRENT RESTR DATE
-----	-----	---------	----------	--------------------------

666019008	22	1	L	
666023064	16481	1338	R	
666026702	24966	1975	R	
666026849	20598	1625	R	
666028954	16490	1346	R	
666035039	23846	1914	R	

```
666046598  37939    2852    R
666054826  11081    981     R
666067730  29192   2348    R
666067760  7174481  3106    R
```

10 rows selected.

10 rows created.

```
=====
===== INVALID CURRENT RESTRICTION DATE =====
=====
```

Rule: The Current Restriction Date field must be a valid VistA date. (Imprecise dates are NOT allowed.)

no rows selected

0 rows created.

```
=====
===== INVALID PATIENT STATUS =====
=====
```

Rule: The Patient Type field must be 'A', 'N', 'R', 'C', or 'X'. (Blanks will be set to 'X'.)

no rows selected

0 rows created.

>> 722 records with a blank patient status will be set to X (Unknown).

```
=====
===== INDIGENT CHECK =====
=====
```

Rule: The Indigent field must be 'Y', or 'N'. (Blanks will be set to 'N'.)

no rows selected

0 rows created.

>> 722 records with a blank indigent status will be set to N (No).

```
=====
===== INVALID APPORTIONEE AMOUNT =====
=====
Rule: The Apportionee Amount cannot be less than 0. Amounts over 99,999 are displayed as warnings.
```

SSN	IEN	REC_NUM	APPORTIONEE AMOUNT
666010001	11296	995	110000
2236	347	110000	

666010004

0 rows created.

```
=====
===== INVALID GUARDIAN AMOUNT =====
=====
Rule: The Guardian Amount cannot be less than 0. Amounts over 99,999 are displayed as warnings.
```

SSN	IEN	REC_NUM	GUARDIAN AMOUNT
666010001	11296	995	120000
2236	347	110000	

666000024

0 rows created.

```
=====
=====
=====
=====
=====
=====
=====
```

```
====
===== INVALID INSTITUTIONAL AWARD AMOUNT =====
=====
Rule: The Inst. Award Amount cannot be less than 0. Amounts over 99,999 are displayed as warnings.
```

SSN	IEN	REC_NUM	INSTITUTIONAL AWARD AMOUNT
666012000	11296	995	130000
2236	347	141000	

666010000

0 rows created.


```
=====
===== INVALID OTHER ASSETS AMOUNT =====
=====
```

Rule: The Other Assets Amount cannot be less than 0. Amounts over 99,999 are displayed as warnings.

SSN	IEN	REC_NUM	OTHER ASSETS AMOUNT
2236	347	140000	

666066664

0 rows created.

```
=====
===== INVALID BALANCES =====
=====
```

Rule: The Account Balances cannot be less than 0. Balances over 99,999 are displayed as warnings.
The Stored Balance must also equal the sum of the Private and Gratuitous Balances.

SSN	IEN	REC_NUM	STORED BALANCE	PRIVATE SOURCE STORED BALANCE	GRATUITOUS SOURCE STORED BALANCE
666016663	8339	861	809000	809000	0
666066673	148	30	\$1400	0	1400
666066465	27228	2094	123123	0	123123
27068	2076	150000	0	150000	

666066683

1 row created.

0 rows created.

0 rows created.

1 row created.

```
=====
=====
===== INVALID RESTRICTED BALANCES/LIMITS =====
=====
```

Rule: The Restriction Balances or Limits cannot be less than 0 or more than 99,999.
The Monthly Limit cannot be less than the Weekly Limit.

Monthly Limits less than 5x the Weekly Limits are displayed as warnings.

SSN	IEN	REC_NUM	MONTHLY	WEEKLY	MONTHLY	WEEKLY
			RESTRICTION BALANCE	RESTRICTION BALANCE	RESTRICTED LIMIT	RESTRICTED LIMIT
666010666	367	88	0	0	50	250
666010009	1647	249	0	0	20	5
666010537	3959	562	0	0	60.00	15.00
666010008	2254	354	0	0	60	15
666011007	330	76	0	0	60.00	15.00
666010011	11296	996	0	0	200	500
666018770	3402	484	0	0	100	25
666015802	3008	451	0	0	125	30
666015870	3590	502	0	0	60.00	15.00
666015888	578	126	0	0	200	250
666019102	2320	361	0	0	60.00	15.00
666019198	2812	423	0	0	200	50
666019889	22	3	0	0	100	25
666019624	2236	348	0	0	5000	9000
666022222	17685	1425	0	0	60.00	15.00
666022238	3600	510	0	0	60.00	15.00
666023331	2159	332	0	0	100	25
666024444	16481	1340	75	75	200	50
666025515	2244	351	0	0	100	500
666026766	24966	1977	0	0	120	30
666026665	20598	1627	0	0	60	15
666035556	23846	1916	0	0	20	35
666040665	13246	1123	0	0	60.00	15.00
666045445	27228	2094	0	0	100	25
666044562	13021	1092	0	0	200	50
666049766	19138	1524	0	0	60.00	15.00
666054826	11081	983	0	0	100	25
666058514	25391	2000	0	0	60.00	15.00
666065772	30958	2520	0	0	60.00	15.00
666067430	29192	2350	0	0	100	25
666067760	7174481	3108	0	0	20	25
666085822	7184376	3176	0	0	100	25

32 rows selected.

0 rows created.

0 rows created.

0 rows created.

0 rows created.

7 rows created.

=====

===== INVALID MIN/MAX BALANCES =====

=====

Rule: The Min / Max Balances cannot be less than 0. Balances over 99,999 are displayed as warnings.

SSN	IEN	REC_NUM	MIN BALANCE ONE	MAX BALANCE ONE	
666012511	11296	997	120000	900000	
666048128	22668	1796	100	110000	666051920
27625	2140	110000	190000		

0 rows created.

0 rows created.

=====

===== MISSING BALANCE RECORD =====

=====

Rule: The Balance Record (B1) is missing.

no rows selected

0 rows created.

=====

===== BLANK INCOME PAYEE =====

=====

Rule: The Income Source Payee field cannot be blank.

SSN	IEN	REC_NUM	INCOME_SOURCE	PAYEE	
7174481	3111	new			666067760

1 row created.

```
=====
===== BLANK INCOME AMOUNT =====
=====
Rule: The Income Amount field cannot be blank.

SSN          IEN      REC_NUM  INCOME_SOURCE      INCOME
-----
666013608    5531      685      SELF                AMOUNT

1 row created.
```

```
=====
===== INVALID INCOME AMOUNT =====
=====
Rule: The Income Amount cannot be less than 0. Amounts over 99,999 are displayed as warnings.

no rows selected
```

0 rows created.

```
=====
===== INVALID FREQUENCY CODE =====
=====
Rule: The Frequency Code field must be 'D', 'W', 'M', 'Y', 'X', 'V', 'O', or blank.

no rows selected
```

0 rows created.

```
=====
===== BLANK STATION ID =====
=====
Rule: The Station ID field cannot be blank.

no rows selected
```

0 rows created.

```
=====
```

===== INVALID STATION ID =====

Rule: The Station ID field must be the station being migrated (e.g. 442) or a child of that station (e.g. 4429AA).

SSN	IEN	FULL NAME	STATION ID	
666014270	3402	VPFSPATIENT,1	6569AA	
666015802	3008	VPFSPATIENT,2	679	
666017673	148	VPFSPATIENT,3	512	666049465
27228		VPFSPATIENT,4	656	

4 rows created.

===== PATIENT COUNTS
BY STATION ID (INFO) =====

Information Only: Display the number of patients at each station present in this migration.

STATION ID	COUNT
442	995
4429AA	7
512	1
656	1
6569AA	1
679	1

6 rows selected.

===== INVALID GENERAL REMARKS =====

Rule: The General Remarks field cannot be more than 2000 characters (will be truncated to 2000 char.).

no rows selected

===== INVALID SPECIAL REMARKS =====

Rule: The Special Remarks field cannot be more than 2000 characters (will be truncated to 2000 char.).

no rows selected

===== INVALID SUSPENSE DATE =====

Rule: The Suspense Date field must be a valid VistA date. (Imprecise dates and blanks are NOT allowed.)

no rows selected

0 rows created.

===== BLANK SUSPENSE ID =====

Rule: The Suspense ID field cannot be blank.

no rows selected

0 rows created.

===== BLANK SUSPENSE TEXT =====

Rule: The Suspense Text field cannot be blank.

SSN	IEN	SUSPENSE DATE	SUSPENSE ID	SUSPENSE TEXT
666017673	148			HERE IS A D
666017673	148			HERE IS A D
666017673	148			HERE IS A D
666017673	148			HERE IS A D
666017673	148			HERE IS A D
666017673	148			HERE IS A D

6 rows selected.

1 row created.

===== INVALID SUSPENSE ITEM =====

Rule: Ensure the necessary records exist to build a complete suspense item (minimum of 1 S1 and 1 S2).
Suspense Items (S2) without a corresponding Suspense Date (S1)

no rows selected

Suspense Text (S3) without a corresponding Suspense Item (S2)

no rows selected

0 rows created.

0 rows created.

=====

===== INVALID TRANSACTION AMOUNTS =====

Rule: The Transaction Amounts cannot be less than 0 or more than 99,999. The Transaction Amount cannot be blank, and one of either the Private Amount or Gratuitous Amount must not be blank.
The Transaction Amount must also equal the sum of the Private Source and Gratuitous Amounts.

no rows selected

0 rows created.

0 rows created.

0 rows created.

0 rows created.

0 rows created.

=====

===== INVALID LAST TRANSACTION DATE =====

Rule: The Last Transaction Date field must be a valid VistA date. (Imprecise dates are NOT allowed.)

no rows selected

0 rows created.

```
=====
===== INVALID DEFERRAL DATE =====
=====
```

Rule: The Deferral Date field must be a valid Vista date. (Imprecise dates and blanks are NOT allowed.)

no rows selected

0 rows created.

```
=====
===== INVALID TRANSACTION DATE =====
=====
```

Rule: The Transaction Date field must be a valid Vista date. (Imprecise dates and blanks are NOT allowed.)

no rows selected

0 rows created.

```
=====
===== INVALID TRANSACTION ENTERED DATE =====
=====
```

Rule: The Transaction Entered Date field must be a valid Vista date. (Imprecise dates and blanks are NOT allowed.)

no rows selected

0 rows created.

```
=====
INVALID REFERENCE =====
=====
```

Rule: The Reference field must be between 1 and 10 characters and cannot be blank.

no rows selected

0 rows created.

```
=====
===== INVALID DEPOSIT/WITHDRAWAL CODE =====
=====
```

Rule: The Deposit/Withdrawal Code field must be 'D' or 'W'.

no rows selected

0 rows created.

```
=====
===== INVALID CASH/CHECK/OTHER STATUS =====
=====
Rule: The Cash/Check/Other Code field must be '1', '2', or '3'.
```

no rows selected

0 rows created.

```
=====
===== INVALID SOURCE =====
=====
Rule: The Source Code field must be 'P', 'G', or 'B'.
```

no rows selected

0 rows created.

```
=====
===== INVALID FORM =====
=====
Rule: The Form field cannot be blank. Form values not in the standard Forms list are displayed as warnings.
```

no rows selected

0 rows created.

```
=====
=====
=====
=====
=====
=====
=====
=====
=====
=====
===== INVALID PATIENT FUNDS CLERK =====
=====
Rule: The Patient Funds Clerk field must be between 3 and 35 characters and cannot be blank.
```

no rows selected

0 rows created.

```
=====
===== NON-DEPOSIT TRANSACTIONS (INFO) =====
=====
Information Only:
```

no rows selected

```
=====
===== ACTIVE ZERO BALANCES (INFO) =====
=====
Information Only:
```

SSN	IEN	ACCOUNT STATUS	STORED BALANCE	PRIVATE SOURCE STORED BALANCE	GRATUITOUS SOURCE STORED BALANCE
666011585	32300	A	\$.00	\$.00	\$.00
666015806	1186	A	\$.00	\$.00	\$.00
666017673	148	A	NaN	\$.00	\$1,400.00
666019238	507	A	\$.00	\$.00	\$.00
666019624	2236	A	\$.00	\$.00	\$.00
666022238	3600	A	\$.00	\$.00	\$.00
666039076	24254	A	\$.00	\$.00	\$.00
666047363	29534	A	\$.00	\$.00	\$.00
666048128	22668	A	\$.00	\$.00	\$.00
666048595	16528	A	\$.00	\$.00	\$.00
666049742	19138	A	\$.00	\$.00	\$.00
666051920	27625	A	\$.00	\$.00	\$.00
666052928	28582	A	\$.00	\$.00	\$.00
666061997	27972	A	\$.00	\$.00	\$.00

14 rows selected.

```
=====
===== DEFERRED TRANSACTIONS BALANCE LIST (INFO) =====
=====
Information Only:
```

PRIVATE SOURCE	GRATUITOUS SOURCE	PRIVATE	GRATUITOUS
-------------------	----------------------	---------	------------

BALANCE	BALANCE	STORED BALANCE	STORED AMT	STORED AMT	TRANS AMT	TRANS	TRANS	SSN	IEN
666035039	23846	\$200.00	\$.00	\$200.00	\$200.00	\$.00	\$200.00	666084319	
7179975	\$10.00	\$10.00	\$.00	\$10.00	\$10.00	\$.00			

=====

===== NON-ZERO BALANCE WITH NO DEFERRED TRANSACTIONS (INFO) =====

=====

Information Only:

SSN	IEN	STORED BALANCE	PRIVATE SOURCE STORED BALANCE	GRATUITOUS SOURCE STORED BALANCE
666010088	367	\$190.00	\$190.00	\$.00
666010653	8339	\$809,000.00	\$809,000.00	\$.00
666017766	2344	\$275.00	\$275.00	\$.00
666012511	11296	\$10.00	\$10.00	\$.00
666016543	201	\$100.00	\$.00	\$100.00
666014577	3402	\$64.00	\$14.00	\$50.00
666022277	16683	\$110.00	\$110.00	\$.00
666028791	2159	\$805.00	\$805.00	\$.00
666098000	16481	\$35.00	\$.00	\$35.00
666020000	7173155	\$90.00	\$90.00	\$.00
666024315	2244	\$130.00	\$130.00	\$.00
666025116	19626	\$120.00	\$120.00	\$.00
666026849	20598	\$10.00	\$.00	\$10.00
666028954	16490	\$450.00	\$300.00	\$150.00
666032555	31754	\$3.00	\$3.00	\$.00
666049465	27228	\$123,123.00	\$.00	\$123,123.00
666051958	40556	\$160.00	\$160.00	\$.00
666053711	37168	\$100.00	\$100.00	\$.00
666063555	36880	\$110.00	\$.00	\$110.00
666067490	7178549	\$310.00	\$110.00	\$200.00
666067760	7174481	\$20.00	\$20.00	\$.00
666071083	27068	\$150,000.00	\$.00	\$150,000.00

22 rows selected.

=====

===== TOTAL CHECKS (ALL ACCOUNTS) =====

=====

TOTAL FOR ALL ACCOUNTS:

TOTAL	DEFERRED	TOTAL
-------	----------	-------

ACCOUNT	BALANCE	TRANSACTIONS	DEFERRED	AMOUNT
\$1,085,425.00		2		\$210.00

TOTAL FOR MIGRATED ACCOUNTS (EXCLUDING PATIENT ACCOUNTS WITH ERRORS):

ACCOUNT	TOTAL BALANCE	DEFERRED TRANSACTIONS	TOTAL DEFERRED	AMOUNT
\$961,093.00		1		\$10.00

```
=====
===== PATIENT ACCOUNTS WITH ERRORS =====
=====
```

>>> >>> NOTE: THE FOLLOWING PATIENT ACCOUNTS HAVE ERRORS AND WILL NOT BE MIGRATED! <<< <<<

33 rows updated.

SSN	IEN	FULL NAME
666010088	367	VPFSPATIENT,1
666010259	1647	VPFSPATIENT,2
666012511	11296	VPFSPATIENT,3
666012546	201	VPFSPATIENT,4
666013608	5531	VPFSPATIENT,5
666014270	3402	VPFSPATIENT,6
666015802	3008	VPFSPATIENT,7
666015888	578	VPFSPATIENT,8
666017673	148	VPFSPATIENT,9
666019138	22	VPFSPATIENT,10
666019624	2236	VPFSPATIENT,12
666023064	16481	VPFSPATIENT,13
666024315	2244	VPFSPATIENT,14
666024936	39665	VPFSPATIENT,15
666026702	24966	VPFSPATIENT,16
666026849	20598	VPFSPATIENT,17
666028954	16490	VPFSPATIENT,18
666035039	23846	VPFSPATIENT,19
666046598	37939	VPFSPATIENT,20
666047363	29534	VPFSPATIENT,21
666049465	27228	VPFSPATIENT,22
666054826	11081	VPFSPATIENT,23
666067730	29192	VPFSPATIENT,24
666067760	7174481	VPFSPATIENT,25

24 rows selected.

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Convert Data Results

The Convert Data results file contains a log of the steps performed while converting the patient data.

```
mainVPFS Process Started on 02/27/2006 10:33:28.) preConversionCheck
Process Started on 02/27/2006 10:33:28.)
preConversionCheck Institution record check completed on 02/27/2006 10:33:28.)
preConversionCheck Blank name check completed on 02/27/2006 10:33:28. 0 Records converted.)
preConversionCheck Blank SSN check completed on 02/27/2006 10:33:28. 0 Records converted.) preConversionCheck
Duplicate SSN check completed on 02/27/2006 10:33:28. 0 Records converted.) preConversionCheck Duplicate
IEN/DFN check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Blank division id
check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Invalid division id check
completed on 02/27/2006 10:33:29. 0 Records converted.)
preConversionCheck L/R patient type with no physician name check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck
Invalid indigent code check completed on 02/27/2006 10:33:29. 0 Records converted.)
preConversionCheck Income source present but blank payee check completed on 02/27/2006 10:33:29. 0 Records converted.)
preConversionCheck Income source present but blank amount check completed on 02/27/2006 10:33:29. 0 Records converted.)
preConversionCheck Valid income amount check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck
Invalid frequency check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Invalid account
status type check completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Invalid patient type check
completed on 02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Invalid patient status check completed on
02/27/2006 10:33:29. 0 Records converted.) preConversionCheck Invalid deposit/withdraw check completed on 02/27/2006
10:33:29. 0 Records converted.) preConversionCheck Invalid cash/check/other status check completed on 02/27/2006
10:33:29. 0 Records converted.) preConversionCheck Invalid transaction source check completed on 02/27/2006 10:33:29. 0
Records converted.) preConversionCheck Invalid transaction amount check completed on 02/27/2006 10:33:29. 0 Records
converted.) preConversionCheck Record counts check completed on 02/27/2006 10:33:29.) preConversionCheck Process
Completed on 02/27/2006 10:33:29. 982 Records converted.) prepDates Process Started on 02/27/2006 10:33:29.) prepDates
dm_d1.dob conversion completed on 02/27/2006 10:33:29.) prepDates dm_d2.date_last_trans conversion completed on
02/27/2006 10:33:29.) prepDates dm_d2.date_curr_restr conversion completed on 02/27/2006 10:33:30.) prepDates
dm_t1.deferral_dt conversion completed on 02/27/2006 10:33:30.) prepDates dm_t1.trans_date conversion completed on
02/27/2006 10:33:30.) prepDates dm_t1.date_trans_entered conversion completed on 02/27/2006 10:33:30.) prepDates
dm_d1.division_id match completed on 02/27/2006 10:33:30.) prepDates Process Completed on 02/27/2006 10:33:30.)
insertPerson Process Started on 02/27/2006 10:33:30. 982 Records converted.) insertPerson
Process Completed on 02/27/2006 10:33:31. 982 Records converted.) insertPatientAccount
Process Started on 02/27/2006 10:33:31.)
insertPatientAccount Process Completed on 02/27/2006 10:33:34. 982 Records converted.)
insertIncomeSource Process Started on 02/27/2006 10:33:34.) insertIncomeSource Insert
from DM_I1 completed on 02/27/2006 10:33:35.)
insertIncomeSource Insert from DM_D2, apportionee$ completed on 02/27/2006 10:33:35.) insertIncomeSource Insert from DM_D2, guardian$
completed on 02/27/2006 10:33:35.) insertIncomeSource Insert from DM_D2, institut_award$ completed on 02/27/2006 10:33:35.)
insertIncomeSource Insert from DM_D2, other_assets$ completed on 02/27/2006 10:33:35.) insertIncomeSource Process Completed on 02/27/2006
10:33:35. 17 Records converted.) insertAccountTransaction Process Started on 02/27/2006 10:33:35.) insertAccountTransaction Insert from
DM_T1 completed on 02/27/2006 10:33:36.) insertAccountTransaction Insert for BALCARFWD, private source amount w/ no corresponding deferred
trans completed on 02/27/2006 10:33:36.) insertAccountTransaction Insert for BALCARFWD, gratuitous amount w/ no corresponding deferred
trans completed on 02/27/2006 10:33:36.) insertAccountTransaction Insert for BALCARFWD, private amount > private deferred trans sum
completed on 02/27/2006 10:33:36.) insertAccountTransaction Insert for BALCARFWD, gratuitous amount > gratuitous deferred trans sum
completed on 02/27/2006 10:33:36.) insertAccountTransaction Update of verification status completed on 02/27/2006 10:33:37.)
insertAccountTransaction Update of child institution id completed on 02/27/2006 10:33:37.)
```

```
insertAccountTransaction Process Completed on 02/27/2006 10:33:37. 14 Records converted.)
updateRunningBalance Process Started on 02/27/2006 10:33:37.) updateRunningBalance
Process Completed on 02/27/2006 10:33:37.) updateDeferredAvailableBalance Process Started
on 02/27/2006 10:33:37.) updateDeferredAvailableBalance Process Completed on 02/27/2006
10:33:37.) updateGeneralRemarks Process Started on 02/27/2006 10:33:37.)
updateGeneralRemarks Process Completed on 02/27/2006 10:33:40.) updateSpecialRemarks
Process Started on 02/27/2006 10:33:40.) updateSpecialRemarks Process Completed on
02/27/2006 10:33:41.) insertSuspense Process Started on 02/27/2006 10:33:41.)
insertSuspense Process Completed on 02/27/2006 10:33:42. 4 Records converted.) postConversionCheck
Process Started on 02/27/2006 10:33:42.)
postConversionCheck Process Completed on 02/27/2006 10:33:42. 982 Records converted.) mainVPFS
Process Completed on 02/27/2006 10:33:42.)
```

Errors

If there were any errors encountered during conversion, those will be detailed in a separate Errors log file.

04/07/2005 17:40:00 Error in preConversionCheck: 1 records found with patient type L or R without provider name.

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Verify Report

The Verify Data Report contains data that will assist in determining whether the migration was successful. By comparing the Verify Report against the Analyze Report, you can determine that there were no patients unexpectedly dropped during data conversion. (Some data portions of the report have been truncated in this example.)

===== VFPS - Verify Report for Station 442 on 02/27/2006 10:02 AM =====

=====

===== RECORD COUNT CHECK =====

=====

PERSON_CNT	PAT_ACCT_CNT	ACCT_TRANS_CNT	INCOME_SOURCE_CNT	DM_D1_CNT	DM_D2_CNT	DM_B1_CNT	DM_B2_CNT	DM_I1_CNT	DM_T1_CNT
982	982	14	17	982	982	982	8	7	1

=====

===== NOT NULL COUNT CHECK =====

=====

PAT_ACCT	PAT_ACCT	PAT_ACCT	DM_D1	DM_D2	DM_D2	DM_D2	DM_D2	DM_D2	DM_D2	DM_T1	DM_T1	DM_T1
DOB	DATE	ENTERED	DOB	DATE	ENTERED	APPORTN\$	GUARDN\$	AWARD\$	ASSETS\$	DATE	DATE	DATE
NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL	NOT NULL
982	24	970	982	24	970	4	2	4	0	1	1	1

=====

===== NON-MIGRATED PATIENT ACCOUNT LIST =====

=====

SSN	FULL NAME	IEN
666010088	VPFSPATIENT, 1	367
666010259	VPFSPATIENT, 2	1647
666012511	VPFSPATIENT, 3	11296
666012546	VPFSPATIENT, 4	201
666013608	VPFSPATIENT, 5	5531
666014270	VPFSPATIENT, 6	3402
666015802	VPFSPATIENT, 7	3008
666015888	VPFSPATIENT, 8	578
666017673	VPFSPATIENT, 9	148
666019138	VPFSPATIENT, 10	22

```

666019624 VPFSPATIENT, 11          2236
666023064 VPFSPATIENT, 12          16481
666024315 VPFSPATIENT, 13          2244
666024936 NAME-MISSING-SSN#666024936 39665
666026702 VPFSPATIENT, 14          24966
666026849 VPFSPATIENT, 15          20598
666028954 VPFSPATIENT, 16          16490
666035039 VPFSPATIENT, 17          23846
666046598 VPFSPATIENT, 18          37939
666047363 VPFSPATIENT, 19          29534
666049465 VPFSPATIENT, 20          27228
666054826 VPFSPATIENT, 21          11081
666067730 VPFSPATIENT, 22          29192 666067760
VPFSPATIENT, 23          7174481

```

24 rows selected.

```

=====
===== PATIENT ACCOUNT LIST =====
=====

```

SSN	FULL NAME	PAT CODE	STATION	CLAIM NBR	WARD	ACCT STATUS	PAT TYPE	PAT STATUS	CURRENT RESTRICTN DATE	DOB	LAST TRANS ENTERED DATE	TOTAL BALANCE
666063555	VPFSPATIENT, 1	A3555	4429AA	SS		A	U	C		12/29/1924	06/21/2005	\$110.00
666025116	VPFSPATIENT, 2	A5116	4429AA	SS		A	U	X		01/07/1941	06/21/2005	\$120.00
666045322	VPFSPATIENT, 3	A5322	442	SS		I	U	X		12/23/1938	08/25/1997	\$.00
666020487	VPFSPATIENT, 4	A0487	442	SS			I	U	X		06/16/1920 05/26/1993	
\$.00	666059361 VPFSPATIENT, 5	A9361	442	SS			I	U	X		04/19/1936 10/05/1992	
666035810	VPFSPATIENT, 6	A5810	442	SS		I	U	X		03/18/1920	06/01/1993	\$.00
666056812	VPFSPATIENT, 7	A6812	442	SS		I	U	X		12/06/1920	03/17/1995	\$.00
666072494	VPFSPATIENT, 8	A2494	442	SS		I	U	X		08/28/1929	12/17/2001	\$.00
.....												
666030099	VPFSPATIENT, 0	Y0099	442	SS		I	U	X		04/12/1930	09/27/1996	\$.00
666051696	VPFSPATIENT, 9	Y1696	442	SS		I	U	X		03/03/1923	02/22/2002	\$.00
666014535	VPFSPATIENT, 10	Y4535	442	SS		I	U	X		11/29/1899	05/13/1999	\$.00
666035862	VPFSPATIENT, 11	Y5862	442	SS		I	X	X		08/04/1948	10/15/2003	\$.00
666072044	VPFSPATIENT, 12	Z2044	442	SS		I	U	X		10/29/1922	01/05/2004	\$.00
666016895	VPFSPATIENT, 13	Z6895	442	SS		I	U	C		06/19/1912	06/29/2000	\$.00
666038798	VPFSPATIENT, 14	Z8798	442	SS		I	U	X		06/18/1921	05/18/1992	\$.00
666075939	VPFSPATIENT, 15	Z5939	442	SS		I	U	X		06/29/1956	02/10/2003	\$.00
666031719	VPFSPATIENT, 16	Z1719	442			I	U	X		06/06/1953	07/20/1992	\$.00
666027197	VPFSPATIENT, 17	Z7197	442	SS		I	U	X		12/15/1920	08/16/1993	\$.00

 - TOTAL
 \$961,093.00

982 rows selected.

=====

===== INACTIVE ACCOUNTS WITH NON-ZERO BALANCES =====

=====

SSN	FULL NAME	ACCOUNT STATUS	TOTAL BALANCE

TOTAL
 no rows selected

=====

===== TRANSACTIONS LIST =====

=====

SSN	FULL NAME	TRANS NUMBER	REFERENCE TEXT	TRANS DATE	DEFERRAL DATE	TRANS AMT	TRANS TYPE	USER ID
666063555	VPFSPATIENT, 21	187	Initial VPFS deposit from PFOP.	02/27/2006		\$110.00	D	migration
666025116	VPFSPATIENT, 22	177	Initial VPFS deposit from PFOP.	02/27/2006		\$120.00	D	migration
666071083	VPFSPATIENT, 23	189	Initial VPFS deposit from PFOP.	02/27/2006		\$150,000.00	D	migration
666010653	VPFSPATIENT, 24	183	Initial VPFS deposit from PFOP.	02/27/2006		\$809,000.00	D	migration
666016669	VPFSPATIENT, 25	184	Initial VPFS deposit from PFOP.	02/27/2006		\$275.00	D	migration
666053711	VPFSPATIENT, 26	178	Initial VPFS deposit from PFOP.	02/27/2006		\$100.00	D	migration
666024180	VPFSPATIENT, 27	186	Initial VPFS deposit from PFOP.	02/27/2006		\$90.00	D	migration
666051958	VPFSPATIENT, 28	185	Initial VPFS deposit from PFOP.	02/27/2006		\$160.00	D	migration
666084319	VPFSPATIENT, 29	176	TEST DEF	01/27/2006	02/06/2006	\$10.00	D	migration
666021252	VPFSPATIENT, 30	181	Initial VPFS deposit from PFOP.	02/27/2006		\$110.00	D	migration
666032555	VPFSPATIENT, 31	180	Initial VPFS deposit from PFOP.	02/27/2006		\$3.00	D	migration
666022681	VPFSPATIENT, 32	179	Initial VPFS deposit from PFOP.	02/27/2006		\$805.00	D	migration
666067490	VPFSPATIENT, 33	182	Initial VPFS deposit from PFOP.	02/27/2006		\$110.00	D	migration
666067490	VPFSPATIENT, 34	188	Initial VPFS deposit from PFOP.	02/27/2006		\$200.00	D	migration

\$961,093.00

14 rows selected.

=====

===== DEFERRED TRANSACTIONS LIST =====

=====

					PATIENT	PATIENT	PATIENT	MASTER		
		TRANS	DEFERRAL		TOTAL	DEFERRED	AVAILABLE	TRANS		
SSN	FULL NAME	NUMBER	TRANS DATE	DATE	BALANCE	BALANCE	BALANCE	TRANS AMT	TYPE	TRANS CODE
-----		-----	-----					-----		
666084319	VPFSPATIENT, 65	176	01/27/2006	02/06/2006	\$10.00	\$10.00	\$.00	\$10.00	D	6392M
								----- TOTAL		
\$10.00										

=====

===== ACCOUNT BALANCES CHECK =====

=====

	PATIENT TOTAL	PATIENT AVAILABLE	PATIENT DEFERRED	PATIENT PRIVATE SRC	PATIENT GRATUITOUS		PRIVATE SRC	GRATUITOUS	RUNNING	MASTER TRANS
SSN	BAL	BAL	BAL	BAL	BAL	TRANS AMT	AMT	AMT	BAL	CODE
666010653	\$809,000.00	\$809,000.00	\$0.00	\$809,000.00	\$0.00	\$809,000.00	\$809,000.00	\$0.00	\$809,000.00	
666016669	\$275.00	\$275.00	\$0.00	\$275.00	\$0.00	\$275.00	\$275.00	\$0.00	\$275.00	
666021252	\$110.00	\$110.00	\$0.00	\$110.00	\$0.00	\$110.00	\$110.00	\$0.00	\$110.00	
666022681	\$805.00	\$805.00	\$0.00	\$805.00	\$0.00	\$805.00	\$805.00	\$0.00	\$805.00	
666024180	\$90.00	\$90.00	\$0.00	\$90.00	\$0.00	\$90.00	\$90.00	\$0.00	\$90.00	
666025116	\$120.00	\$120.00	\$0.00	\$120.00	\$0.00	\$120.00	\$120.00	\$0.00	\$120.00	
666032555	\$3.00	\$3.00	\$0.00	\$3.00	\$0.00	\$3.00	\$3.00	\$0.00	\$3.00	
666051958	\$160.00	\$160.00	\$0.00	\$160.00	\$0.00	\$160.00	\$160.00	\$0.00	\$160.00	
666053711	\$100.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100.00	\$100.00	\$0.00	\$100.00	
666063555	\$110.00	\$110.00	\$0.00	\$0.00	\$110.00	\$110.00	\$0.00	\$110.00	\$110.00	666067490
\$310.00	\$310.00	\$0.00	\$110.00	\$200.00	\$110.00	\$110.00	\$0.00	\$110.00		
666067490	\$310.00	\$310.00	\$0.00	\$110.00	\$200.00	\$200.00	\$0.00	\$200.00	\$310.00	
666071083	\$150,000.00	\$150,000.00	\$0.00	\$0.00	\$150,000.00	\$150,000.00	\$0.00	\$150,000.00	\$150,000.00	
666084319	\$10.00	\$0.00	\$10.00	\$10.00	\$0.00	\$10.00	\$10.00	\$0.00	\$10.00	6392M
								TOTAL		
\$961,093.00	\$810,783.00	\$150,310.00								

14 rows selected.

=====

===== MIGRATED TOTALS CHECK =====

=====

NUMBER OF PATIENT ACCOUNTS	TOTAL OF ACCOUNT BALANCES	NUMBER OF DEFERRED TRANSACTIONS	TOTAL OF DEFERRED AMOUNTS
982	\$961,093.00	1	\$10.00

```
=====
===== INCOME SOURCE CHECK =====
=====
SSN          FULL NAME          INCOME SOURCE          INCOME SOURCE AMT FREQ
-----
666039856    VPFSPATIENT, 44            GUARDIAN                $ .00
666039856    VPFSPATIENT, 42            INSTITUTIONAL AWARD      $50.00
666039856    VPFSPATIENT, 43            APPORTIONEER            $100.00
666019127    VPFSPATIENT, 44            APPORTIONEER            $600.00
666019127    VPFSPATIENT, 45            INSTITUTIONAL AWARD      $600.00
666012561    VPFSPATIENT, 46            INSTITUTIONAL AWARD      $9,228.00
666024180    VPFSPATIENT, 47            INSTITUTIONAL AWARD      $26,736.00
666035137    VPFSPATIENT, 48            APPORTIONEER            $178.00
666019865    VPFSPATIENT, 49            APPORTIONEER            $100.00 666019865
VPFSPATIENT, 50          GUARDIAN                $100.00
```

10 rows selected.

```
=====
===== REMARKS COUNT CHECK =====
=====
PAT_ACCT      DM_X1_X2      PAT_ACCT      DM_R1_R2
SPECIAL RMKS  DM_X1_X2      TOTAL GENERAL RMKS  DM_R1_R2      TOTAL
NOT NULL     NOT NULL      COUNT          NOT NULL      NOT NULL      COUNT
-----
16           16           18           53           53           54
```

```
=====
===== NON-CONVERTED SPECIAL REMARKS LIST =====
=====
```

no rows selected

Appendix D

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=====
===== NON-CONVERTED GENERAL REMARKS LIST =====
=====
```

no rows selected

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Appendix E. Acronyms and Abbreviations

Term	Definition
ADPAC	Automated Data Processing Application Coordinator
API	Application Program Interface
ASIS	Application Structure and Integration Services
C&A	Certification and Accreditation
CHISS	Common Health Information Security Services
CI	Configuration Item
COTS	Commercial Off The Shelf
CPU	Central Processing Unit
CRUD	Create, Read, Update, Delete
CSS	Cascading Style Sheets
DAS	Delegated Administration Service
DBMS	Database Management System
DHTML	Dynamic HyperText Markup Language
DN	Distinguished Name
DOS	Disk Operating System
DSS	Decision Support System
EAR	Enterprise Archive
EJB	Enterprise Java Bean
EIS	Enterprise Information System
ERD	Entity Relationship Diagram
ETL	Extract, Transform, Load
FK	Foreign Key
FTP	File Transfer Protocol
HIPAA	Health Insurance Portability and Accountability Act
HIS	Health Information System

HL7	Health Level 7
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
ICN	Integration Control Number
IIG	Impact Innovations Group
IP	Internet Protocol
IFCAP	Integrated Patient Funds Distribution, Control Point Activity, Accounting and

Appendix F. Acronyms and Abbreviations

Term	Definition
	Procurement
IPF	Integrated Patient Funds
J2EE	Java TM 2 Platform, Enterprise Edition
JAAS	Java Authentication and Authorization Service
JCA	Java Connector Architecture
JDBC	Java Database Connectivity
JDK	Java Development Kit
JMS	Java Message Service
JNDI	Java Naming Directory Interface
JSP	Java Server Page
JSTL	Java Standard Tag Library
JTA	Java Transaction API
JVM	Java Virtual Machine
KAAJEE	Kernel Authentication and Authorization for J2EE
LAN	Local Area Network
LDAP	Lightweight Directory Access Protocol
LLC	Limited Liability Corporation
M	MUMPS
MAC	Media Access Controller
MUMPS	Massachusetts Universal Multi Programming System
MVC	Model View Controller

OCI	Oracle Call Interface
OCS	Office of Cyber Security
PFC	Patient Funds Clerk
PFCS	Patient Funds Clerk Supervisor
PATS	Patient Advocate Tracking System
PFOP	Personal Funds of Patients
PK	Primary Key
PKI	Public Key Infrastructure
PM	Project Manager
PSD	Person Service Demographics
PSL	Person Service Lookup
QA	Quality Assurance
QCI	Quality Control Inspector

Appendix F. Acronyms and Abbreviations

Term	Definition
QCP	Quality Control Plan
RBAC	Role Based Access Control
RDBMS	Relational Database Management System
RO	Regional Office
RPC	Remote Procedure Call
SCM	Software Configuration Management
SCMP	Software Configuration Management Plan
SD&D	System Design & Development
SDD	System Design Document
SDK	Software Development Kit
SDL	Software Development Library
SDLC	Software Development Life Cycle
SEPG	Software Engineering Process Group
SI	System Implementation
SME	Subject Matter Expert
SOAP	Simple Object Access Protocol

SOW	Statement of Work
SQA	Software Quality Assurance
SQAP	Software Quality Assurance Plan
SQL	Standard Query Language
SRS	Software Requirements Specification
SSL	Secure Sockets Layer
TBD	To Be Determined
TLD	Tag Descriptor Library
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
VA	Veterans Affairs
VAX	VAX (Virtual Address eXtension) is an established line of mid-range server computers from the Digital Equipment Corporation (DEC).
VHA	Veterans Health Administration
VistA	Veterans Information Systems Technology Architecture
VMS	Virtual Machine System (operating system for VAX computers)
VPFS	Veterans Personal Finance System
WAN	Wide Area Network
WAR	Web Archive

Appendix F. Acronyms and Abbreviations

Term	Definition
XDE	Extensible Development Environment
XHTML	Extensible HyperText Markup Language
XML	Extensible Markup Language