**Patient Statement Enhancements**

**System Design Document**

**Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1)**



**January 2017**

**Version 1.18**

**Department of Veterans Affairs**

**Revision History**

**Date Version Description Author**

8/26/2015 1.0 Initial draft Lloyd MacAskill

9/30/2015 1.01 Draft revision Lloyd MacAskill

10/21/2015 1.02 Added Incomplete status flag Dennis Bricker

10/27/2015 1.03 Added NA to all blank sections Shawnee Blair

12/3/2015 1.04 Elaboration of routine functions Lloyd MacAskill

12/17/2015 1.05 Draft Revision Lloyd MacAskill

1/5/2016 1.06 Updated section – 3.3.31 Sachin Sharma

3/4/2016 1.07 Updated section 1, and added Security

Key to 6.3.2.2.8

Lloyd MacAskill / Beth Easton

4/13/2016 1.08 Updated routines Dennis Bricker

05/27/2016 1.09 Updated Introduction Shawnee Blair

09/06/2016 1.10 Added Change Station Date info Mark Enfinger

10/20/2016 1.11 Update routine info to match v15 coding solution.

12/14/16 1.12 Update routine info to match v17 coding solution.

12/19/16 1.13 Update routine info to match v18 coding solution.

01/17/17 1.14 Update routine info to match v19 coding solution.

01/17/17 1.15 Update routine info to match v19 coding solution.

01/18/17 1.16 Update routine info to match v20 coding solution.

01/23/17 1.17 Update routine info to match v22 coding solution.

1/24/17 1.18 Updated page numbers in Tables of

Contents, List of Tables and List of Figures

Matt Dill Matt Dill Matt Dill Matt Dill

Mark Enfinger

Matt Dill

Mark Enfinger

Matt Dill

**Artifact Rationale**

The System Design Document (SDD) is a dual-use document that provides the conceptual design as well as the as-built design. This document will be updated as the product is built, to reflect the as-built product.

Patient Statement Enhancement

System Design Document 111 January 2017

**When to Complete Each Section of the SDD**

|  |  |  |
| --- | --- | --- |
| **Section** | **Completed On or**  **Before PMAS Phase** | **Rationale** |
| 1 – Introduction | MS 0 Review; updated thereafter | Conceptual design should inform evaluation of investments |
| 2 - Background | MS 0 Review; updated thereafter | Conceptual design should inform evaluation of investments |
| 3 – Conceptual Design | MS 0 Review; updated thereafter | Conceptual design should inform evaluation of investments |
| 4 – System Architecture | MS 0 Review; updated thereafter | Conceptual design should inform evaluation of investments |
| 5 – Data Design | MS 1 Review; updated thereafter | Design details should be elaborated upon during PMAS Planning phase and prior to development |
| 6 – Detailed Design | MS 1 Review; updated thereafter | Design details should be elaborated upon during PMAS Planning phase and prior to development |
| 7 – External System Interface  Design | MS 1 Review; updated thereafter | Design details should be elaborated upon during PMAS Planning phase and prior to development |
| 8 – Human Machine Interfaces | MS 1 Review; updated thereafter | Design details should be elaborated upon during PMAS Planning phase and prior to development |
| Attachments | MS 1 Review; updated thereafter | Design details should be elaborated upon during PMAS Planning phase and prior to development |

A product’s system design should be defined conceptually prior to the allocation of personnel and resources that occur at project initiation. This gives the enterprise an opportunity to evaluate IT investments before project teams are stood up and funding is allocated. Sections 1- 4 which discuss the high level design should be completed prior to MS 0. All sections should be completed and updated before MS 1. Projects will need to address all SDD approval constraints prior to the MS 2 review. In addition, the SDD should reflect the as-built product going into the MS 2 review.

**Instructions**

|  |  |  |
| --- | --- | --- |
| **Activity** | **New Capability (1)** | **Feature Enhancement (2)** |
| **Field Deployment (A)** | No | Yes |
| **Cloud/Web**  **Deployment (B)** | No | No |
| **Mobile Application (C)** | No | No |

**Table of Contents**

**1. Introduction ...................................................................................... 12**

**1.1. Scope .............................................................................................................. 12**

**1.2. User Profiles................................................................................................... 13**

**2. Background ...................................................................................... 13**

**2.1. Overview of the System ................................................................................ 13**

**2.2. Overview of the Business Process .............................................................. 13**

**2.3. Overview of the Significant Requirement .................................................... 13**

**3. Conceptual Design........................................................................... 14**

**3.1. Conceptual Application Design .................................................................... 14**

**3.1.1. Application Context ............................................................................... 14**

**3.1.2. High-Level Application Design ............................................................. 17**

**3.1.3. Application Locations ........................................................................... 18**

**3.2. Conceptual Data Design................................................................................ 18**

**3.2.1. Project Conceptual Data Model ............................................................ 18**

**3.2.2. Database Information ............................................................................ 18**

**3.2.3. User Interface Data Mapping ................................................................ 19**

3.2.3.1. Application Screen Interface .........................................................................19

3.2.3.2. Application Report Interface..........................................................................21

3.2.3.3. Unmapped Data Element..............................................................................21

**3.3. Conceptual Infrastructure Design ................................................................ 21**

**3.3.1. System Criticality and High Availability............................................... 21**

**3.3.2. Special Technology ............................................................................... 22**

**3.3.3. Technology Locations........................................................................... 22**

**3.3.4. Conceptual Infrastructure Diagram...................................................... 23**

|  |  |  |
| --- | --- | --- |
|  | 3.3.4.1. | Location of Environments and External Interfaces ........................................23 |
| **4.** | 3.3.4.2.  **System** | Conceptual Production String Diagram .........................................................23  **Architecture ........................................................................ 23** |

**4.1. Hardware Architecture .................................................................................. 23**

**4.2. Software Architecture.................................................................................... 23**

**4.3. Network Architecture..................................................................................... 23**

**4.4. Service Oriented Architecture / ESS ............................................................ 23**

**4.5. Enterprise Architecture ................................................................................. 23**

**5. Data Design ...................................................................................... 23**

**5.1. DBMS Files ..................................................................................................... 24**

**5.2. Non-DBMS Files ............................................................................................. 24**

**5.3. Data View ........................................................................................................ 24**

**6. Detailed Design ................................................................................ 24**

**6.1. Hardware Detailed Design............................................................................. 24**

**6.2. Software Detailed Design .............................................................................. 24**

**6.2.1. Conceptual Design ................................................................................ 24**

6.2.1.1. Product Perspective......................................................................................25

6.2.1.1.1. User Interfaces ......................................................................................................... 25

6.2.1.1.2. Hardware Interfaces ................................................................................................. 26

6.2.1.1.3. Software Interfaces .................................................................................................. 26

6.2.1.1.4. Communications Interfaces...................................................................................... 26

6.2.1.1.5. Memory Constraints................................................................................................. 26

6.2.1.1.6. Special Operations ................................................................................................... 26

6.2.1.2. Product Features ..........................................................................................26

6.2.1.3. User Characteristics......................................................................................26

6.2.1.4. Dependencies and Constraints .....................................................................26

**6.2.2. Specific Requirements .......................................................................... 26**

6.2.2.1. Database Repository ....................................................................................26

6.2.2.2. System Features...........................................................................................27

6.2.2.3. Design Element Tables.................................................................................30

6.2.2.3.1. Routines (Entry Points) ............................................................................................ 30

6.2.2.3.2. Templates ................................................................................................................. 95

6.2.2.3.3. Bulletins ................................................................................................................... 95

6.2.2.3.4. Data Entries Affected by the Design........................................................................ 96

6.2.2.3.5. Unique Record(s) ..................................................................................................... 96

6.2.2.3.6. File or Global Size Changes..................................................................................... 96

6.2.2.3.7. Mail Groups ............................................................................................................. 97

6.2.2.3.8. Security Keys ........................................................................................................... 98

6.2.2.3.9. Options ..................................................................................................................... 99

6.2.2.3.10. Protocols............................................................................................................... 103

6.2.2.3.11. Remote Procedure Call (RPC) ............................................................................. 103

6.2.2.3.12. Constants Defined in Interface............................................................................. 104

6.2.2.3.13. Variables Defined in Interface ............................................................................. 104

6.2.2.3.14. Types Defined in Interface................................................................................... 104

6.2.2.3.15. GUI ...................................................................................................................... 104

6.2.2.3.16. GUI Classes.......................................................................................................... 104

6.2.2.3.17. Current Form........................................................................................................ 104

6.2.2.3.18. Modified Form ..................................................................................................... 104

6.2.2.3.19. Components on Form........................................................................................... 105

6.2.2.3.20. Events................................................................................................................... 105

6.2.2.3.21. Methods................................................................................................................ 105

6.2.2.3.22. Special References ............................................................................................... 105

6.2.2.3.23. Class Events ......................................................................................................... 105

6.2.2.3.24. Class Methods ...................................................................................................... 105

6.2.2.3.25. Class Properties.................................................................................................... 105

6.2.2.3.26. Uses Clause .......................................................................................................... 106

6.2.2.3.27. Forms ................................................................................................................... 106

6.2.2.3.28. Functions .............................................................................................................. 106

6.2.2.3.29. Dialog................................................................................................................... 107

6.2.2.3.33. COTS Interface .................................................................................................... 109

**6.3. Network Detailed Design ............................................................................. 109**

**6.4. Security and Privacy.................................................................................... 109**

**6.4.1. Security................................................................................................. 109**

**6.4.2. Privacy .................................................................................................. 109**

**6.5. Service Oriented Architecture / ESS Detailed Design .............................. 109**

**6.5.1. Service Description for <Consumed Service Name>........................ 110**

**6.5.2. Service Design for <Provided Service Name> .................................. 110**

6.5.2.1. Introduction .................................................................................................110

6.5.2.1.1. Purpose and Scope of Service ................................................................................ 110

6.5.2.1.2. Links to Other Documents ..................................................................................... 110

6.5.2.2. Service Details............................................................................................110

6.5.2.2.1. Service Identification ............................................................................................. 110

6.5.2.2.2. Service Versions .................................................................................................... 111

6.5.2.2.3. Summary of Design and Platform Details ............................................................. 111

6.5.2.2.3.1. SOA Pattern(s) Implemented .......................................................................... 111

6.5.2.2.3.2. COTS Platform vendor names and versions for hosting platform .................. 111

6.5.2.3. Dependencies.............................................................................................111

6.5.2.4. Service Design Details................................................................................111

6.5.2.4.1. Interface Technical Specs ...................................................................................... 111

6.5.2.4.1.1. Service Invocation Type ................................................................................. 111

6.5.2.4.1.2. Service Interface Type .................................................................................... 111

6.5.2.4.1.3. Service Name .................................................................................................. 111

6.5.2.4.1.4. Interface .......................................................................................................... 111

6.5.2.4.1.5. End Points ....................................................................................................... 111

6.5.2.4.1.6. Operations or Methods .................................................................................... 112

6.5.2.4.1.7. Message Schemas ........................................................................................... 112

6.5.2.4.2. Information Model ................................................................................................. 112

6.5.2.4.2.1. Class Diagram and Description of Entities Involved ...................................... 112

6.5.2.4.2.2. Mappings from ELDM to Standards Based Schemas ..................................... 112

6.5.2.4.3. Behavior Model (AKA Use Case Realization) ...................................................... 112

6.5.2.4.3.1. Use Cases (Use Case Model) .......................................................................... 112

6.5.2.4.3.2. Interaction Diagrams ....................................................................................... 112

6.5.2.5. Gap Analysis ..............................................................................................112

6.5.2.5.1. Variances from Enterprise Target Architecture ..................................................... 113

6.5.2.5.2. Variances from SLDs ............................................................................................. 113

6.5.2.5.3. Variances from Standards and Policies.................................................................. 113

6.5.2.5.4. Justification for Exceptions and Mitigation ........................................................... 113

**7. External System Interface Design................................................. 113**

**7.1. Interface Architecture .................................................................................. 113**

**7.2. Interface Detailed Design ............................................................................ 113**

**8. Human-Machine Interface ............................................................. 113**

**8.4. Navigation Hierarchy ................................................................................... 114**

**8.4.1. Screen [x.1] N/A ................................................................................... 114**

**8.4.2. Screen [x.2] N/A ................................................................................... 114**

**8.4.3. Screen [x.3] N/A ................................................................................... 114**

**9. Attachment A – Approval Signatures ........................................... 115**

**A. Additional Information ................................................................... 116**

**A.1. Identification of Technology and Standards ............................................. 116**

**A.2. Constraining Policies, Directives and Procedures ................................... 116**

**A.3. Requirements Traceability Matrix............................................................... 116**

**A.4. Packaging and Installation.......................................................................... 116**

**A.5. Design Metrics ............................................................................................. 116**

**List of Tables**

Table 1: Business Rules .............................................................................................................................. 13

Table 2: Application Context Description .................................................................................................. 16

Table 3: Objects in the High Level Application Design ............................................................................. 17

Table 4: Application Locations................................................................................................................... 18

Table 5: Application Users ......................................................................................................................... 18

Table 6: Database Inventory ....................................................................................................................... 18

Table 7: Description.................................................................................................................................... 21

Table 8: Special Technology Requirements .............................................................................................. 22

Table 9: Technology Location Details........................................................................................................ 22

Table 10: Database Inventory ..................................................................................................................... 26

Table 11: Functional Specifications............................................................................................................ 27

Table 12: Routine : PRCACPS ................................................................................................................... 31

Table 13: Routine : PRCACPSA ................................................................................................................ 45

Table 14: Routines: PRCAACR ................................................................................................................. 50

Table 15: Routines: PRCAACR1 ............................................................................................................... 57

Table 16: Routines: PRCA307P ................................................................................................................. 63

Table 17: Routines: PRCASER1 ................................................................................................................ 65

Table 18: Routines: RCCPCBJ ................................................................................................................... 69

Table 19: Routines: RCDPBTLM............................................................................................................... 74

Table 20: Routines: RCWROFF ................................................................................................................. 86

Table 21: Templates.................................................................................................................................... 95

Table 22: Bulletins ...................................................................................................................................... 95

Table 23: Data Entries Affected by the Design .......................................................................................... 96

Table 24: Unique Record ID ....................................................................................................................... 96

Table 25: File or Global Size Changes ....................................................................................................... 97

Table 26: Mail Groups ................................................................................................................................ 97

Table 27: Security Keys .............................................................................................................................. 98

Table 28: Option PRCA ACCOUNT MANAGEMENT............................................................................ 99

Table 29: Option PRCA AUTOCRCT PGM............................................................................................ 100

Table 30: Option PRCA AUTOCRCT PGM QUEUED .......................................................................... 101

Table 31: Option PRCA AUTOCRCT RPT ............................................................................................. 102

Table 32: Protocols ................................................................................................................................... 103

Table 33: RPCs ......................................................................................................................................... 103

Table 34: Constants Defined in Interface ................................................................................................. 104

Table 35: Variables Defined in Interface ................................................................................................. 104

Table 36: Types Defined in Interface ....................................................................................................... 104

Table 37: GUI ........................................................................................................................................... 104

Table 38: GUI Classes .............................................................................................................................. 104

Table 39: Components on Form ............................................................................................................... 105

Table 40: Events ....................................................................................................................................... 105

Table 41: Methods .................................................................................................................................... 105

Table 42 : Special References ................................................................................................................... 105

Table 43: Class Events.............................................................................................................................. 105

Table 44: Class Methods........................................................................................................................... 105

Table 45: Class Properties ........................................................................................................................ 105

Table 46: Forms ........................................................................................................................................ 106

Table 47: Forms ........................................................................................................................................ 106

Table 48: Dialog ....................................................................................................................................... 107

Table 49: Help Frame ............................................................................................................................... 107

Table 50 : HL7 Application Parameter ..................................................................................................... 108

Table 51: HL7 Logical Link ..................................................................................................................... 108

Table 52: COTS Interface ......................................................................................................................... 109

Table 53: Service Attribute and Value...................................................................................................... 110

Table 54 : Service Versions ...................................................................................................................... 111

Table 55: Operations or Methods.............................................................................................................. 112

Table 56 : Gap Analysis............................................................................................................................ 112

**List of Figures**

Figure 3-1: Existing Deficiency Resolution Flow ...................................................................................... 15

Figure 3-2: AS-IS PSE Diagram 1 .............................................................................................................. 16

Figure 3-3 : Auto-Correct Patient Discrepancy Report............................................................................. 20

Figure 6-1 : Auto-Correct Process Flow ................................................................................................... 24

**1. Introduction**

The remediation of the Veterans Health Information Systems Technology Architecture (VistA) Accounts Receivable (AR) process is required to provide a consolidated and easily readable patient statement from multiple treatment facilities during a monthly cycle. Enhancements to the AR system will increase Veteran satisfaction by mitigating concerns raised by Veterans Service Organizations (VSO) and individual Veterans, who have provided feedback to the Department of Veterans Affairs (VA) regarding poor customer service and poor business practices. Future development activities are dependent on Phase 1 and Phase 2 enhancements, as these enhancements will deploy best practices in financial and business processes, and align with the VA initiative to build Veterans Record Management (VRM) capability to enable convenient, and seamless interactions.

The PSE project includes 3 development phases across 5 increments. Phase 1 will remediate existing payment cycle deficiencies and include an auto-correction job. Phase 1 will be coded and initial SQA testing will be performed in Increment 1. Phase 1 final Software Quality Assurance (SQA), User Functionality Testing (UFT), Initial Operability Capability (IOC), and deployment will be in Increment 3.

Phase 2 includes the creation of the consolidated billing statement. Phase 2 will be coded and initial SQA testing will be performed in Increment 2. Phase 2 final SQA, UFT, IOC, and deployment will be in Increment 3.

Phase 3 includes making the billing statements available on-line through the My HealtheVet (MHV) portal and for the generation of the Annual Patient Payment Summary (APPS) statement. Phase 3 will be coded and initial SQA testing will be performed in Increment 4. Phase 3 final SQA, UFT, IOC, and deployment will be in Increment 5.

The tables in this section identify the full scope of the PSE project by Increment.

**1.1. Scope**

The Veterans Health Administration (VHA) Chief Business Office (CBO) is requesting remediation of deficiencies in the VistA AR package which cause patient statements to not print and resolution to the root cause of 3 specific issues. Items considered in scope for Phase I are listed below:

1. Development and installation of an automated process for the detection and tracking of discrepancies that prevent a patient statement from processing.

2. Remediation of the root cause for the following discrepancies that prevent a patient statement from processing:

• Transaction amount missing

• Duplicate transaction

• Incomplete status

3. For 17 specific Station ID’s the SITE STATEMENT DAY field in the AR PARAMETER file will be updated.

**1.2. User Profiles**

The user base consists of Department of Veterans Affairs (VA) employees and contractors who routinely use the VistA AR package, as well as employees of the Consolidated Patient Accounting Centers (CPAC). Users also include call center workers who handle inquiries about patient statements, as well as Agent Cashiers who accept payments on these statements.

**2. Background**

**2.1. Overview of the System**

The core of the system to be modified is the Accounts Receivable (AR) module of VistA. AR interacts with other financial systems and user organizations in the Department of Veterans Affairs, but the changes required for Phase 1 of the Patient Statement Enhancements project will be located in VistA AR.

**2.2. Overview of the Business Process**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) of the Patient Statement Enhancement project is to provide the capability to resolve out of balance discrepancies that now prevent patient statements from printing. This capability will be automated to the extent possible and will minimize the need for manual intervention to provide balance corrections. Out of balance discrepancies that have been corrected by the system will be documented in an Auto-Correction Report that will be created as part of this project. This report will allow an audit trail to be maintained for these automated balance corrections.

These changes have been described in more detail in the Requirements Specification Document for Patient Statement Enhancements Phase 1, currently available in Version 1.2.

The current Requirements Specification Document for the Patient Statement Enhancements Project is PSE Phase 1\_RSD\_Draft and can be accessed on the VA SharePoint site for the PSE project at the link below.

http://URL.DNS/pm/hape/HAPEPortfolioPMO/PatientStatementEnhancement/defa ult.aspx

**2.3. Overview of the Significant Requirement**

**Table 1: Business Rules**

|  |  |  |
| --- | --- | --- |
|  | **Business Rules (Auto-Correction Job)** |  |
| **Background Job** - Auto-correction will function as a tasked job.  **Option** - The job can be run on-demand.  **Post-Init** - The initial job run will occur immediately after patch installation.  **Auto-Correction - Option**  Execute functionality “on-demand”  The new PRCA STATEMENT AUTO-CORRECTION security key will be provided to limit | | |

|  |  |  |
| --- | --- | --- |
|  | **Business Rules (Auto-Correction Job)** |  |
| access to the auto-correction option.  **Auto-Correction - Background Job**  Will be parameter-based (set up in the AR site parameters file)  **Scheduling (When should the job run?)**  Initial discussion – Once a week…on the weekend…at night  Decision by consensus – TBD during site testing based on how long the job runs  **Post Init** – Immediate auto-correction wanted after the patch installation | | |
| **Layout - Auto-Correction Report** | | |
| **Changes to the Auto correction report requested by the workgroup: Displays only the last 4 digits of the Social Security Number (SSN) Sort by SSN was not needed**  **Provide a date range to run the report**  DRAFT Auto Correct  Patient Discrepancy R  **User can run the report from an option**  **User can enter a date range which is for the date of auto-correction**  **The report will display only the last 4 digits on the SSN**  **The Statement Discrepancy Listing will provide what was NOT auto-corrected (existing report)** | | |

**3. Conceptual Design**

**3.1. Conceptual Application Design**

Currently bad transactions are identified and remediated via a manual process. Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) will create an automated process for identify and remediated bills that are out of balance and includes additional reporting capabilities to identify the remaining out of balance bills and transactions that have been corrected.

**3.1.1. Application Context**

For Phase 1, the existing deficiency resolution flow has been defined:

Patient Statement Deficiency Resolution Process “As Is”

Phase

Day after statement run date, run Discrepancy Report

CPAC

Run Descrepancy Report

Open Remedy Ticket with failed statements

Review

Remedy ticket

Determine cause for descrepency

Is miss ing No transaction

amount? Yes

Review the AR

transaction f ile (433) to

find corresponding z ero

amount

Is duplica te transaction?

Yes

Set incomplete transaction f lag on duplicate transaction

No

No Is incomplete status?

Yes

Remove Incomplete Status flag

Add missing amount through Fileman

HPS

No

Run trans action

patient statement

history

Account in

Balance

Yes

Close Remedy ticket

Run patient statement batch

AR System

Patient Statement File

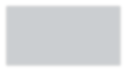
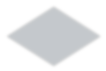
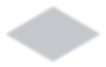
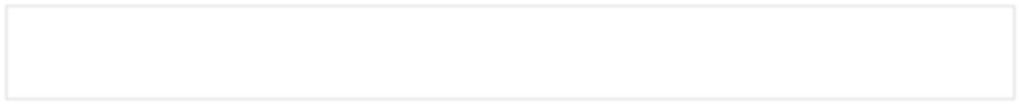
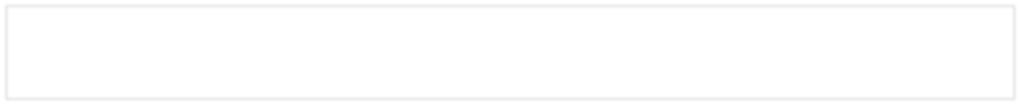
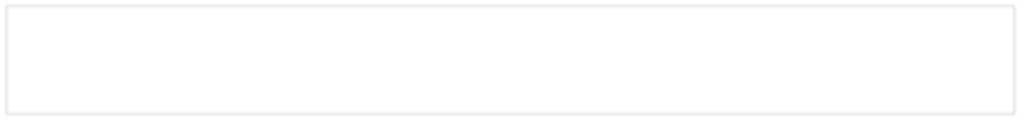
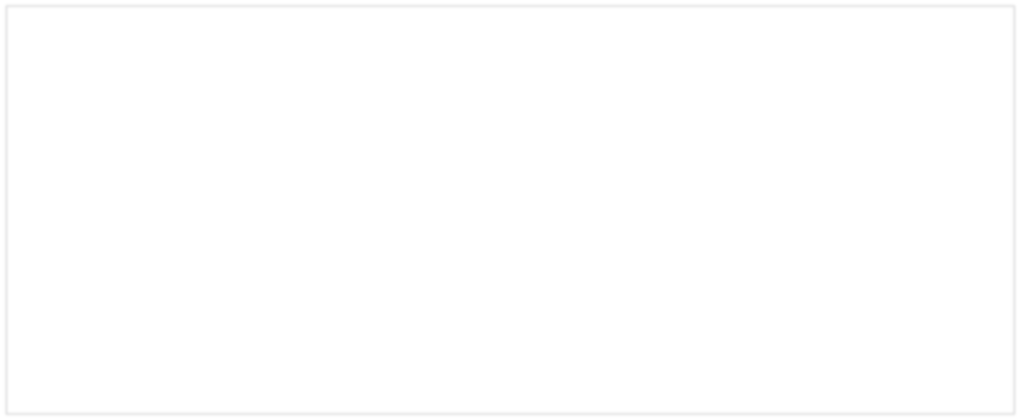
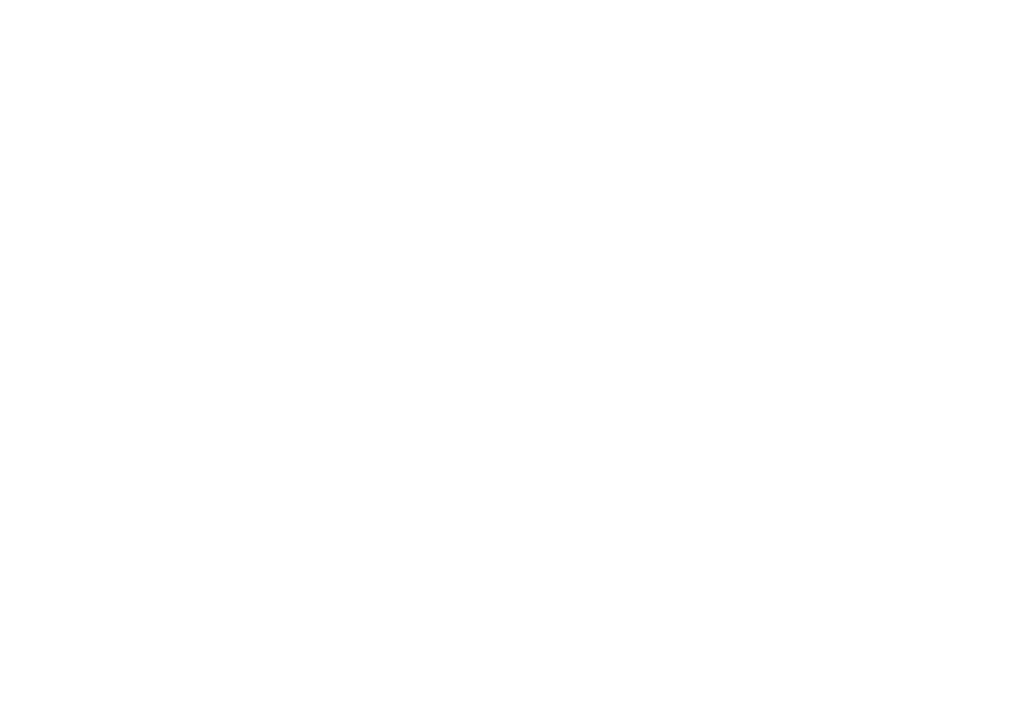
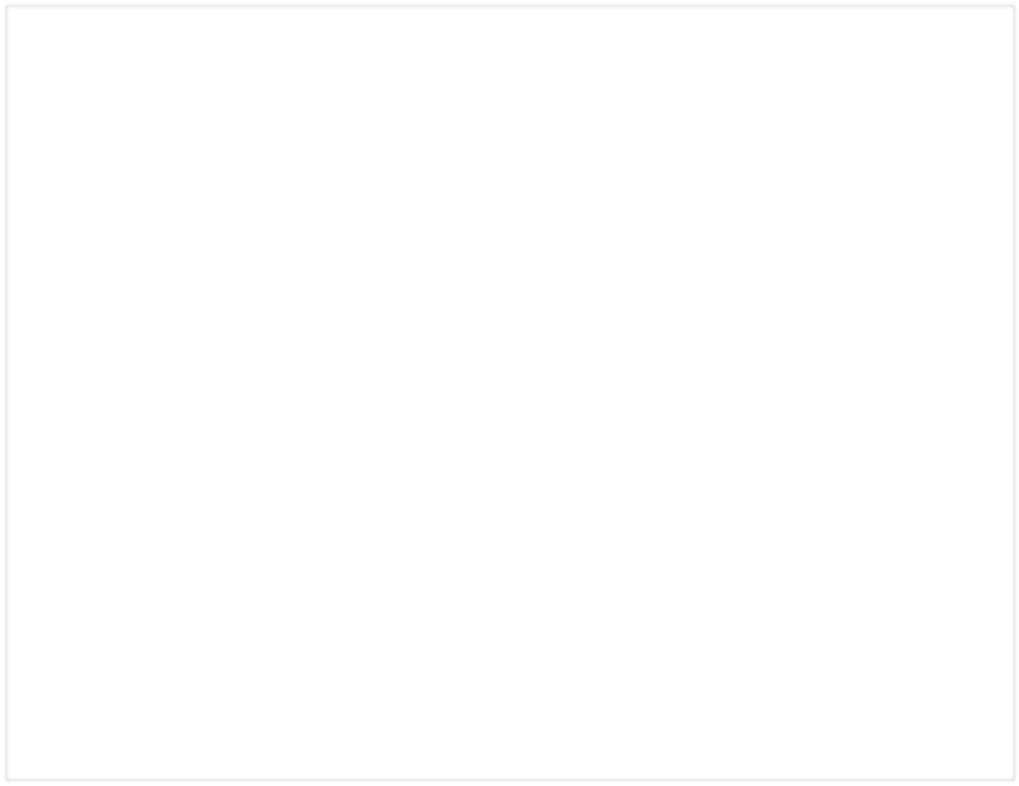
Print

AITC

Sta tement

Mail

Sta tements

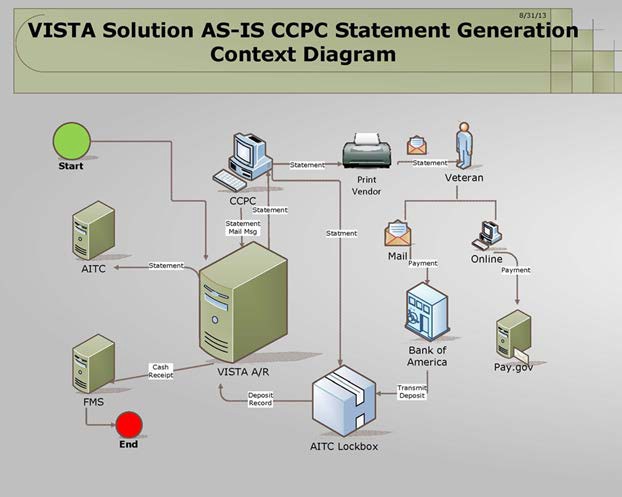


**Figure 3-1: Existing Deficiency Resolution Flow**

Further discussion has defined the changes proposed for Phase 1, including the auto-correction job and the report that summarizes the auto-correction afterwards. These changes are described under Section 2.3 above.

The diagram that follows shows the systems and organizations that generate patient statements for veterans and process their payments. For Phase 1 of Patient Statement Enhancements, the

only entities directly involved in statement preparation, production and delivery are the station or medical center that prepares the statement record, and the Consolidated Co-payment Processing Center (CCPC) to which statement records that are in balance are sent for printing and mailing.



**Figure 3-2: AS-IS PSE Diagram 1**

**Table 2: Application Context Description**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Interface**  **Name** | **Interface**  **System** |
| VistA A/R | VistA Station | Sends patient statement record information to be printed and mailed. | Statement | MailMan |
| CCPC | Consolidated Co-payment Processing Center | Prints and mails patient statements to veterans. |  |  |

**Interfaces External to OI&T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Related Object** | **Input Messages** | **Output**  **Messages** | **External**  **Party** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Related Object** | **Input Messages** | **Output**  **Messages** | **External**  **Party** |
|  |  |  |  |  |  |

**Interfaces Internal to OI&T**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Related Object** | **Input Messages** | **Output**  **Messages** | **External**  **Party** |
|  |  |  |  |  |  |

**Externally Shared Data Stores**

**ID Name Data Stored Owner Access**

**3.1.2. High-Level Application Design**

For Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1), a good starting point is the existing Accounts Receivable menu option, Statement Discrepancy Listing, which is entered in the OPTION File (#19) as PRCA DISC LIST. This option compares bill balances with transaction balances and flags accounts for which the two do not match.

Since this is an established option, its logic should be studied to determine if it can be used to meet some of the requirements of PSE Phase 1. Auto corrections that are performed by Phase 1 should result in the out-of-balance flag being cleared when checked by the routines invoked by this option.

This option should also be studied to determine if its performance could be enhanced by restricting the range of accounts checked, by date, account status, or some other parameter, keeping in mind the requirements for PSE Phase 1.

**Objects / Components to be Built or Modified**

**Table 3: Objects in the High Level Application Design**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Service or**  **Legacy Code** | **External Interface Name** | **External**  **Interface ID** | **Internal Interface Name** | **Internal**  **Interface ID** | **SDP Sections**  **1&2** |
|  | Auto Correct Account Balance Discrepancy | Tasked job to correct statement discrepancies if possible |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Service or**  **Legacy Code** | **External Interface Name** | **External**  **Interface ID** | **Internal Interface Name** | **Internal**  **Interface ID** | **SDP Sections**  **1&2** |
|  | Auto- Correct Patient Discrepancy Report | Details of statement record and how it was corrected (or not) |  |  |  |  |  |  |

**Internal Data Stores**

**ID Name Data Stored Steward Access**

**3.1.3. Application Locations**

**Table 4: Application Locations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Application**  **Component** | **Description** | **Location at Which**  **Component is Run** | **Type** |
| Auto Correction Job | Tasked job | VA Station, CPAC | Local and regional |
| Auto Correction  Report | Report | VA Station, CPAC | Local and regional |

**Table 5: Application Users**

**Application Component Location User**

Auto Correction Job VA Station, CPAC Facility Revenue Technician

Auto Correction Report VA Station, CPAC Facility Revenue Technician

**3.2. Conceptual Data Design**

**3.2.1. Project Conceptual Data Model**

Not applicable for Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1).

**3.2.2. Database Information**

**Table 6: Database Inventory**

**Database Name Description Type Steward**

**Database Name Description Type Steward**

VistA Accounts

Receivable

Modify VA Station, CPAC

**3.2.3. User Interface Data Mapping**

**3.2.3.1. Application Screen Interface**

The application has no GUI. All VistA screens are ‘roll and scroll’; however, this section outlines the main modifications to the Auto-Correct Patient Discrepancy Report. The three auto- correction types provided for this report are the incomplete transactions (“I”), duplicate transactions (“D”), and null transactions (“N”). These correction types provided for a specific transaction entry will be recorded in the new AUTO-CORRECTION TYPE OF ERROR (#96) field that is being added to corrected entries in the AR TRANSACTION File (#433).

**Figure 3-3 : Auto-Correct Patient Discrepancy Report**

**1 - SORTED BY BILL NO.**

**PAGE 1 BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY BILL #) OCT 20, 2016**

**------------------------------------------------------------------------------**

**BILL NO. DEBTOR SSN TRANS NUM AUTO-C DATE AUTO-C REASON**

**----------- ------------------ ---- --------- ------------ --------------**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 442-K000FQ | ACSCUREN,TSTZALO C | 1627 | 4525262 | APR | 28,2015 | DUPLICATE TRAN |
| 442-K111AA | ACSAER,TSTANT CHEE | 0411 | 123456789 | APR | 28,2015 | NULL TRANSACTI |
| 442-K111BB | ACSAER,TSTANT CHEE | 0411 | 987654321 | APR | 28,2015 | NOT FIXABLE |
| 442-K111DDD | ACSEK,TSTCEL CHEUG | 0092 | 8793333 | MAY | 5,2015 | INCOMPLETE FLA |

**2 -SORTED BY DEBTOR**

PAGE 1 BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY DEBTOR) OCT 20, 2016

------------------------------------------------------------------------------

DEBTOR BILL NO. SSN TRANS NUM AUTO-C DATE AUTO-C REASON

------------------ ----------- ---- --------- ------------ --------------

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ACSAER,TSTANT CHEE | 442-K111AA | 0411 | 123456789 | APR | 28,2015 | NULL TRANSACTI |
| ACSAER,TSTANT CHEE | 442-K111BB | 0411 | 987654321 | APR | 28,2015 | NOT FIXABLE |
| ACSCUREN,TSTZALO C | 442-K000FQ | 1627 | 4525262 | APR | 28,2015 | DUPLICATE TRAN |
| ACSEK,TSTCEL CHEUG | 442-K111DDD | 0092 | 8793333 | MAY | 5,2015 | INCOMPLETE FLA |

**3 - SORTED BY AUTO-CORRECT DATE**

PAGE 1 BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY AUTO-C DT) OCT 20, 2016

------------------------------------------------------------------------------

AUTO-C DATE DEBTOR BILL NO. SSN TRANS NUM AUTO-C REASON

------------ ------------------ ----------- ---- --------- --------------

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| APR | 28,2015 | ACSAER,TSTANT CHEE | 442-K111AA | 0411 | 123456789 | NULL TRANSACTI |
| APR | 28,2015 | ACSAER,TSTANT CHEE | 442-K111BB | 0411 | 987654321 | NOT FIXABLE |
| APR | 28,2015 | ACSCUREN,TSTZALO C | 442-K000FQ | 1627 | 4525262 | DUPLICATE TRAN |
| MAY | 5,2015 | ACSEK,TSTCEL CHEUG | 442-K111DDD | 0092 | 8793333 | INCOMPLETE FLA |

**4 -SORTED BY TRANSACTION NUMBER**

PAGE 1 BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY TRANS NUM) OCT 20, 2016

------------------------------------------------------------------------------

TRANS NUM DEBTOR BILL NO. SSN AUTO-C DATE AUTO-C REASON

--------- ------------------ ----------- ---- ------------ --------------

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4525262 | ACSCUREN,TSTZALO C | 442-K000FQ | 1627 | APR | 28,2015 | DUPLICATE TRAN |
| 8793333 | ACSEK,TSTCEL CHEUG | 442-K111DDD | 0092 | MAY | 5,2015 | INCOMPLETE FLA |
| 123456789 | ACSAER,TSTANT CHEE | 442-K111AA | 0411 | APR | 28,2015 | NULL TRANSACTI |
| 987654321 | ACSAER,TSTANT CHEE | 442-K111BB | 0411 | APR | 28,2015 | NOT FIXABLE |

**3.2.3.2. Application Report Interface**

**Table 7: Description**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Report Column** |  |  | **Data Source** |  |
| BILL NO. (#.01) | | | ACCOUNTS RECEIVABLE File (#430) | | |
| DEBTOR (#.01) | | | AR DEBTOR File (#340) | | |
| SSN (#110) | | | AR DEBTOR File (#340) | | |
| TRANS NUM (#.01) | | | AR TRANSACTION File (#433) | | |
| AUTO-C DATE (#94) | | | AR TRANSACTION File (#433) | | |
| AUTO-CORCT REASON (#96) | | | AR TRANSACTION File (#433) | | |

**3.2.3.3. Unmapped Data Element**

There is no unmapped data.

**3.3. Conceptual Infrastructure Design**

The Consolidated Patient Statement Discrepancy Auto-Correction Program has a conceptual infrastructure similar to the Statement Discrepancy Listing. Patient accounts are examined for mismatches between patient accounts and transaction amounts. Attempts are made to correct transactions for a limited number of known conditions which create account imbalances.

**3.3.1. System Criticality and High Availability**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) addresses defect fixes and enhancements for an existing VistA application (VistA/AR) and do not introduce or change VistA architecture/Hardware/system performance/LAN impact/Security and do not introduce any new service/application dependencies for VistA or the corresponding AR package(s).

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) is a high level VistA AR patch that has multiple system dependencies, each of which should have its own recovery plan. Following release, the PSE Phase 1 patch, PRCA\*4.5\*307, may be obtained by file transfer from remote sites that are listed in its installation instructions. Following the mandated installation date for the patch, it will be included in future VistA releases and be available whenever VistA is updated or restored. Since the patch will correct only transactions that have occurred since the last patient statement date, a current AR TRANSACTION File (#433) should also be available to process.

**3.3.2. Special Technology**

**Table 8: Special Technology Requirements**

**Special Technology Description Notional Location TRM Status**

**3.3.3. Technology Locations**

**Table 9: Technology Location Details**

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Production 1** | **Location** | **Usage** |
| Workstations |  |  |
| Special Hardware |  |  |
| Interface Processors |  |  |
| Legacy Mainframe |  |  |
| Legacy Application Server |  |  |
| Legacy Databases | VAMC VistA | VAMC, CPAC |
| Other |  |  |

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Production 2** | **Location** | **Usage** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Certification** | **Location** | **Usage** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Education** | **Location** | **Usage** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Test** | **Location** | **Usage** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Technology Component**  **Development** | **Location** | **Usage** |
|  |  |  |

**3.3.4. Conceptual Infrastructure Diagram**

**3.3.4.1. Location of Environments and External Interfaces**

**3.3.4.2. Conceptual Production String Diagram**

**4. System Architecture**

**4.1. Hardware Architecture**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) will be embedded within the Accounts Receivable package of VistA and will therefore run on whatever hardware is currently supporting VistA.

**4.2. Software Architecture**

The software Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) will be issued in the form of a patch to the Accounts Receivable package of VistA and will operate within the VistA AR environment.

**4.3. Network Architecture**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) will operate within the existing network architecture that supports VistA installations for the VA.

**4.4. Service Oriented Architecture / ESS**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) is intended to automatically correct statement balance discrepancies that prevent patient statements from printing. This will facilitate the successful completion of the tasks for which the statement processing systems were designed.

**4.5. Enterprise Architecture**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) shares the attributes of the VistA Accounts Receivable packages into which it will be incorporated.

**5. Data Design**

Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) will work within the existing file structure of VistA AR. Specifically, fields will be updated as necessary within the AR TRANSACTION File (#433) in order to correct balance discrepancies and allow those statements to be printed.

One such field is the INCOMPLETE TRANSACTION FLAG (#10). If duplicate transactions are found on the patient statement, this flag will be set for the newer of the two transactions in order to inactivate it.

A second such field is the TRANS. AMOUNT (#15). If this field is found to be empty or to contain an incorrect value for which an explanation can be determined, a corrected transaction amount will be entered to bring the patient statement back into balance.

**5.1. DBMS Files**

N/A

**5.2. Non-DBMS Files**

N/A

**5.3. Data View**

N/A

**6. Detailed Design**

The updates being implemented in Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) merely correct minor defects in the existing Accounts Receivable system to prevent future transcations from having one of three existing issues and to identify and automatically correct the existing transactions with these issues. As such, the overall changes to existing hardware and software and extremely minor.

**6.1. Hardware Detailed Design**

N/A

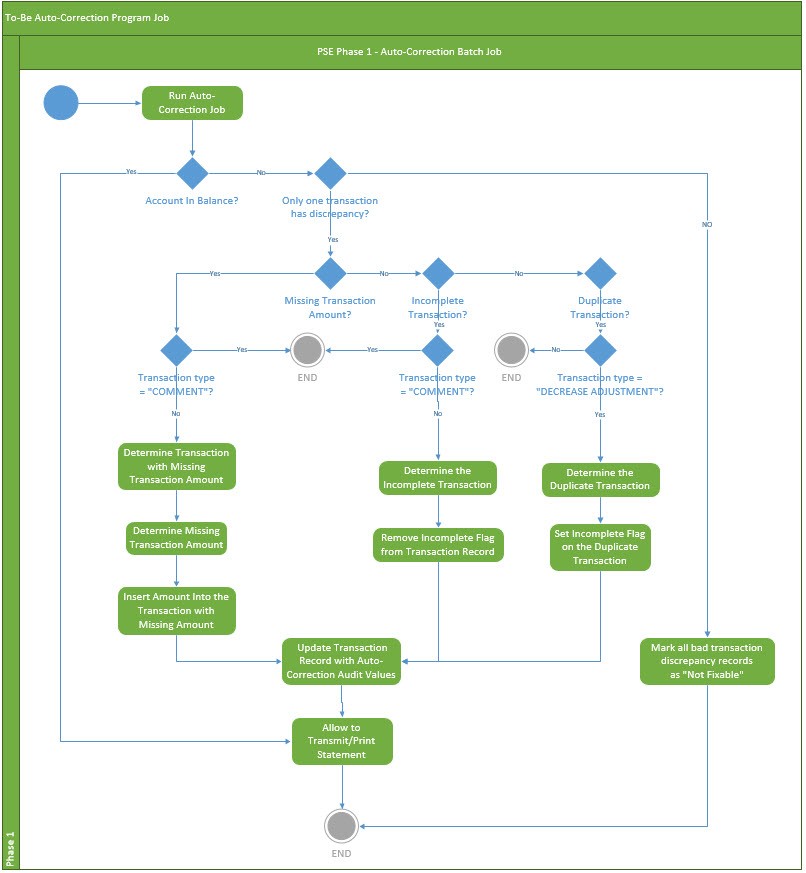
**6.2. Software Detailed Design**

N/A – only minor fixes to existing routines and three new routines to fix and report existing errors.

**6.2.1. Conceptual Design**

The following figure outlines the conceptual design for the auto-correct process.

Figure 6-1 : Auto-Correct Process Flow



**6.2.1.1. Product Perspective**

N/A

**6.2.1.1.1. User Interfaces**

The intended users of the Consolidated Patient Statement software are the AR staff located at the

VAMCs and CPACs, who are responsible for managing the Patient Statement generation.

**6.2.1.1.2. Hardware Interfaces**

This section is not applicable to Patient Statement Enhancements (PSE) Discrepancies

(Increment 1, Phase 1).

**6.2.1.1.3. Software Interfaces**

The Consolidated Patient Statement functionality will use the VA Mailman for data transfer.

**6.2.1.1.4. Communications Interfaces**

**6.2.1.1.5. Memory Constraints**

No limits on memory or partition size will exist for the Consolidated Patient Statement.

**6.2.1.1.6. Special Operations**

No special operations are required by the user or for external devices or COTS systems.

**6.2.1.2. Product Features**

The Patient Statement auto-correction functionality will be provided by VistA AR patch PRCA\*4.5\*307. The post-install portion of the patch will update the SITE STATEMENT DAY field (#.11) for 17 specific Station ID’s in the AR PARAMETER file (#342). Refer to Section

6.2.2.2 for more detail on the product features.

**6.2.1.3. User Characteristics**

The intended users of the Consolidated Patient Statement software are the AR staff located at the

VAMCs and CPACs, who are responsible for managing the Patient Statement generation.

**6.2.1.4. Dependencies and Constraints**

Not all of the processing conditions which result in a missing transaction amounts, “incomplete”

transaction statuses or duplicate transactions have been identified.

Technical Subject Matter Expert (SME) shortage, due to the complexity of the existing software, and the participation of experienced VistA AR application developers is essential to the successful design and development of the system.

The development team continues to work closely with the business to determine scenarios that cause duplicate transactions and missing transactions amounts.

**6.2.2. Specific Requirements**

**6.2.2.1. Database Repository**

The following table identifies all databases that will be modified as part of this project.

**Table 10: Database Inventory**

**Database Name Description Type Steward**

**Database Name Description Type Steward**

AR Transaction file

#433

Holds the Accounts

Receivable transactions.

Modify Accounts Receivable package

**6.2.2.2. System Features**

This sub-section outlines the functional specifications for the Consolidated Patient Statement.

**Table 11: Functional Specifications**

|  |  |
| --- | --- |
| ACJ001 | The AR application shall execute Auto-Correction functionality that detects and remediates the following 3 types of discrepancies:  • Transaction amount missing  • Duplicate transaction  • Incomplete status |
| ACJ002 | The Auto-Correction functionality shall be a tasked job that runs in the background of the Accounts Receivable application. The job will be initially scheduled to run every Wednesday at 1:00 AM local time, before the CCPC job runs. The scheduling may change based on how long the job runs during site testing |
| ACJ003 | The AR application shall include an option to execute the Auto-Correction job, so that it can be run on demand. There shall be a user prompt indicating "Requested Time To Run: NOW/" so the user can run the job immediately (NOW) or queue the job to run at a future date and time. |
| ACJ004 | The AR application shall provide a security key to run the Auto-Correction job by an option. The new security key name will be PRCA AUTOCRCT PGM. |
| ACJ005 | The Auto-Correction job shall run after patch installation, so that auto-correction of discrepancies begins immediately. |
| ACJ006 | The Auto-Correction job shall execute Business Rules for Balancing Accounts to determine if an account is in balance. |
| ACJ007 | If a missing dollar amount in the TRANS AMOUNT field (#15) of the AR Transaction file (#433) causes a patient’s account to be out-of-balance, then the Auto Correction Job shall correct the out-of-balance by entering the amount in the TRANS AMOUNT field (#15)  Note: This requirement may be modified as work on the auto-correction continues. |

|  |  |
| --- | --- |
| ACJ008 | If a duplicate transaction in the AR Transaction file (#433) causes a patient’s account to be out-of-balance, then the Auto Correction Job shall correct the out-of- balance by setting the INCOMPLETE STATUS FLAG field (#10) to a value of 1.  Note: If a transaction in AR file (#433) contains data that is identical to that of a previous transaction except for the transaction number then the transaction is a duplicate.  Note: This requirement may be modified as work on the auto-correction continues |
| ACJ009 | If one or more transactions in the AR Transaction file (#433) has the INCOMPLETE STATUS FLAG set to 1, and causes a patient’s account to be out-of-balance, then the Auto Correction Job shall correct the out-of-balance by removing the value of 1 in the INCOMPLETE STATUS FLAG field (#10)  If the system cannot determine the transactions for removing the flag, the account will be referred for manual processing. The Patient Statement will remain out of balance after the Auto-Correction and will be listed on the CCPC Statement Errors report when it is run.  Note: This requirement may be modified as work on the auto-correction continues |
| ACJ010 | The Auto-Correction job shall execute business rules based on Manual Steps To Resolve Any Discrepancy (see RSD) to remediate the following 3 types of discrepancies:  • Transaction amount missing  • Duplicate transaction  • Incomplete status |
| ACJ011 | The Auto-Correction job shall send a message to the Mailman Mail Group  PRCACPS when the job has completed. |
| ACR001 | The AR application shall create an Auto-Correction report that tracks the following 3 types of balance discrepancies:  • Transaction amount missing  • Duplicate transaction  • Incomplete status |
| ACR002 | The Auto-Correction Report shall list the discrepancy details that were remediated by the Auto-correction job and display a reason for auto-correction. |
| ACR003 | The Auto-Correction Report shall list the discrepancy details that could not be remediated by the Auto-Correction job and display “Other Error” as the reason why the discrepancy could not be resolved through this process. |
| ACR004 | The Auto-Correction report shall display only the last 4 digits of the Social Security  Number (SSN). |

|  |  |
| --- | --- |
| ACR005 | The AR application shall prompt the user to enter a FROM and TO date for the Auto- Correction Report. |
| ACR006 | The Auto-Correction Report shall provide a default FROM date value of “T-7”. |
| ACR007 | The Auto-Correction Report shall provide a default TO date value of “T”. |
| ACR008 | The AR application shall prompt the user to sort the Auto-Correction Report by the following parameters:  • Bill number  • Debtor name  • Transaction number  • Auto-Correction Date |
| ACR009 | The Auto-Correction report shall display the following information with corresponding headers:  • BILL NO.  • DEBTOR  • SSN  • TRANS NUM  • AUTO-CORCT DATE  • AUTO-CORCT REASON |
| ACR010 | The Auto-Correction report main header shall read  “BILLS THAT HAVE BEEN AUTO-CORRECTED” |
| ACR011 | The Auto-Correction report will have the following menu path:  Clerk’s AR Menu  Account Management  Auto-Correct Patient Discrepancy Report |
| ACR012 | The Auto-Correction Report shall pause and display a “Continue” prompt at the end of the report if the report needs to span to another page on the user VistA screen. |

US003 As a VistA user, I want my VistA site to build and transmit patient billing statement files that are sent to AITC prior to the 26th of each month so that when consolidated patient statement functionality is implemented there is a window at the end of the prior month when all statement data has been processed for billing.

STATION # STATION NAME DATE

----------------------------------

438 SIOUX FALLS,SD 21

501 ALBUQUERQUE,NM 21

504 AMARILLO,TX 21

542 COATESVILLE,PA 21

562 ERIE,PA 21

568 FORT MEADE,SD 21

649 PRESCOTT,AZ 21

656 ST. CLOUD,MN 21

688 WASHINGTON,DC 21

756 EL PASO,TX 21

565 FAYETTEVILLE,NC 22

621 MOUNTAIN HOME,TN 22

658 SALEM,VA 22

664 SAN DIEGO,CA 22

671 SAN ANTONIO,TX 22

689 WEST HAVEN,CT 22

740 TX VALLEY CSTL,TX 22

**6.2.2.3. Design Element Tables**

**6.2.2.3.1. Routines (Entry Points)**

The new PRCACPS and PRCACPSA routines will correct patient statement balances (current and the new consolidated Patient Statements) where possible. The new routines PRCAACR and PRCAACR1 generate the auto-correction summary report described by the PSE specifications. The date range being examined is determined through the use of two previously established APIs:

The LST^PRCAGU API returns the last statement date before the statement being sent. PBAL^PRCAGU returns the previous balance and the date of the last transaction.

For each patient statement (existing patient statements and the new consolidated patient statements-CPS), the bill balance and transaction balances are calculated and compared, using previously developed methods for checking for balance discrepancies. If the new statement is found to be out of balance, further analysis is performed to determine the cause of the discrepancy. Records will not be reviewed for debtors with unknown mailing addresses or local Integration Control Numbers (ICNs). These ICNs (#991.01) are stored in the PATIENT File (#2).

The fields of interest within the transaction record are: INCOMPLETE TRANSACTION FLAG (#10)

TRANSACTION DATE (#11) TRANS. AMOUNT (#15)

Transaction records that are selected for correction are logged into a temporary file that is used to generate the auto-correction report. Entries for the Patient Statements Auto-Correction Report

will be filed under the PRCAGTPS label. They will then be filed in an ordered array by: Number of the job that is creating the report ($J)

AR DEBTOR File (#340) Internal Entry Number (IEN)

Bill Number – IEN for ACCOUNTS RECEIVABLE File (#430)

Transaction Number – From the AR TRANSACTION file (#433) entry for this bill #.

After changes have been made to a transaction entry to correct a statement discrepancy, the following fields will be added to the transaction record to document the changes:

AUTO-CORRECTION DATE (#94)

AUTO-CORRECTION TRANS. AMOUNT (#95) AUTO-CORRECTION TYPE OF ERROR (#96)

**Table 12: Routine : PRCACPS Routines Activities**

**Routine Name** PRCACPS

**Enhancement Category** New Modify Delete No Change

**RTM** ACJ001-ACJ013

**Related Options** Patient Statement Auto-Correction Program

**Related Routines Routines “Called By” Routines “Called”**

$$LST^RCFN01

$$CRC32^XLFCRC EN1^DIP

^DIR

$$FMTE^XLFDT

$$UPPER^VALM1

%ZTLOAD

%ZIS

**Routines Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | ACCOUNTS RECEIVABLE File (#430) AR TRANSACTION File (#433)  AR DEBTOR File (#340) | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| NA | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **PRCACPS ;ALBANY/BDB-PATIENT STATEMENTS AUTO-CORRECTION ;09/21/15 3:34**  **PM**  **;;4.5;Accounts Receivable;\*\*307\*\*;Mar 20, 1995;Build 79**  **;;Per VA Directive 6402, this routine should not be modified.**  **; Q**  **;**  **BEGIN ; Entry point for manual run**  **; Determine if Auto Correct process is currently running**  **N DIR,PRCASTRT,QUIT,X,X1,X2,Y**  **S PRCASTRT=$G(^XTMP("PRCACPS",0)),QUIT=0**  **; Notify user if Auto Correct process is currently running**  **I PRCASTRT'="" D Q:QUIT**  **.S Y=$P(PRCASTRT,U,2)**  **.D DD^%DT**  **.S PRCASTRT=Y**  **.W !!,"The Patient Statement Auto-Correction Program was previously started on"**  **.W !,PRCASTRT," and has not yet successfully completed."**  **.W !!,"The job can take up to 1 hour to complete when scheduled to run outside"** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.W !,"of normal business hours and longer if run during normal business hours"**  **.W !,"when the load on the system is greater."**  **.W !!**  **.W !,"If it has been more than an hour since the Patient Statement Auto-Correction"**  **.W !,"Program was started and the confirmation e-mail with subject: CPS"**  **.W !,"AUTO-CORRECTION COMPLETE has not been sent to the PRCACPS mail group, you can"**  **.W !,"run the Patient Statement Auto-Correction Program again."**  **.W !**  **.S DIR("A")="Do you want to run the Patient Statement Auto-Correction Program again"**  **.S DIR(0)="Y",DIR("B")="NO"**  **.D ^DIR**  **.W !**  **.; Quit if ^, ^^, Timeout or No**  **.I $D(DTOUT)!($D(DUOUT))!($D(DIROUT))!(Y=0) S QUIT=1**  **.K DTOUT,DUOUT,DIROUT**  **.Q**  **;**  **N ZTDTH,ZTIO,ZTDESC,ZTRTN,ZTSK**  **W !,"Queue the patient statement discrepancies auto-correction program to run:" S ZTDESC="Auto-Correct Patient Statement Discrepancies"**  **S ZTRTN="START^PRCACPS",ZTIO="" D ^%ZTLOAD**  **Q**  **;**  **START ; Entry point for Scheduled background job**  **N DEBTOR,DEBTOR0,DEBTOR1,PRCASTRT,REFREV,X,Y S PRCASTRT=$G(^XTMP("PRCACPS",0))**  **; If a previous job still running send e-mail warning to PRCACPS mail group**  **I PRCASTRT'="" D**  **.S Y=$P(PRCASTRT,U,2)**  **.; Convert date to external format**  **.D DD^%DT**  **.S PRCASTRT=Y**  **.; Send mail to PRCACPS mail group noting previous run didn't complete**  **.D PRCAMAIL(PRCASTRT)**  **.Q**  **; Get current date/time** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **D NOW^%DTC**  **S (PRCASTRT,X1)=%,X2=8**  **D C^%DTC**  **S ^XTMP("PRCACPS",0)=X\_U\_PRCASTRT\_U\_"Patient Statement Auto-Correction**  **Program"**  **; Loop through C x-ref in 430. This field points to the Debtor File, which in turn is a**  **; variable pointer to other files. S DEBTOR=0**  **F S DEBTOR=$O(^PRCA(430,"C",DEBTOR)) Q:DEBTOR'?1N.N D**  **.; Perform the same in/out of balance check as the CHECK PATIENT ACCOUNT BALANCE option**  **.; Quit to next debtor if account is in balance**  **.I '$$EN^PRCAMRKC(DEBTOR) Q**  **.S BALDIFF=0**  **.S DEBTOR0=$G(^RCD(340,DEBTOR,0)),DEBTOR1=$G(^(1))**  **.; QUIT if it doesn't point to the PATIENT (^DPT) file**  **.Q:$P(DEBTOR0,"^")'["DPT("**  **.Q:$P(DEBTOR1,"^",9)=1 ; quit if debtor address marked unknown**  **.; Skip this Debtor is they at least 1 Bill in #430 with a status of REFUND REVIEW (#44)**  **.Q:$$REFREV(DEBTOR)**  **.; Get previous balance and date of last transaction from the AR EVENT file (#341)**  **.D ENTER(DEBTOR)**  **.; Perform checks/updates based on File #430**  **.D START1**  **.; QUIT if in balance**  **.; \*\*\* Removed so all out of balance accounts to enter START2**  **.;I BALDIFF=0 K BALDIFF,^TMP("PRCAGTPS",$J),^TMP("PRCABILL",$J) Q**  **.; Review Data in ^TMP and update #433 as needed**  **.D START2**  **.; If the account is still out of balance after fixing everything it can**  **.; call UPDTLTR to mark the last transaction for the account as NOT FIXABLE**  **.I $$EN^PRCAMRKC(DEBTOR) D UPDTLTR^PRCACPSA(0)**  **.; clean up temp info and process next debtor**  **.K BALDIFF,^TMP("PRCAGTPS",$J),^TMP("PRCABILL",$J)**  **; Send mailman message to the PRCACPS mail group at end of processing**  **D USRMSG Q**  **;** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **REFREV(DEBTOR) ;**  **; Check if any Bill for this Debtor has a status of REFUND REVIEW (#44) N BN,QUIT**  **S BN="",QUIT=0**  **F S BN=$O(^PRCA(430,"C",DEBTOR,BN)) Q:'BN D Q:QUIT**  **.; Check CURRENT STATUS (#8) for status of REFUND REVIEW (#44)**  **.I $P($G(^PRCA(430,BN,0)),U,8)=44 S QUIT=1**  **Q QUIT**  **; ENTER(DEBTOR) ;**  **S (PBAL,BBAL,TBAL)=0 K ^TMP("PRCAGTPS",$J)**  **; Get last type of event for debtor by calling $$LST^RCFN01. References files #340 and #341.1**  **S DAT=$$LST^RCFN01(DEBTOR,2) I DAT<1 S DAT=0**  **; PBAL^PRCAGU gets previous balance and date of last transaction from the AR EVENT file (#341)**  **I DAT S DAT=9999999.999999-DAT D PBAL^PRCAGU(DEBTOR,.DAT,.PBAL) D EN(DEBTOR,DAT)**  **K BBAL,TBAL,DAT**  **Q**  **; EN(DEBTOR,BEG,END,TTY) ;**  **NEW Y**  **; If Beginning date is not defined, set it to 0 to start at beginning**  **; If End date is not defined, set it to today's date**  **S:$G(BEG)="" BEG=0 I $G(END)="" D NOW^%DTC S END=% K % S TTY=$G(TTY) I TTY="" D F430**  **D F433**  **Q Q**  **F430 ; Checks for ACCOUNTS RECEIVABLE file (#430) for bills with (#3) ORIGINAL AMOUNT has a value,**  **; set this into the ^TMP global with \_"^0" NEW DAT,BN**  **S DAT=BEG F S DAT=$O(^PRCA(430,"ATD",DEBTOR,DAT)) Q:('DAT)!(DAT>END) S BN=0 F S BN=$O(^PRCA(430,"ATD",DEBTOR,DAT,BN)) Q:**  **'BN D**  **.; Add the original amount if it is within date range based on the date of the last statement**  **.I $P(^PRCA(430,BN,0),U,3) S** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **^TMP("PRCAGTPS",$J,DEBTOR,BN,0)=$P(^PRCA(430,BN,0),"^",3)\_"^0" Q**  **F433 ;**  **NEW DAT,TN**  **; Loop through the Dates and Bills**  **F DAT=BEG:0 S DAT=$O(^PRCA(433,"ATD",DEBTOR,DAT)) Q:('DAT)!(DAT>END) F TN=0:0 S TN=$O(^PRCA(433,"ATD",DEBTOR,DAT,TN)) Q:'T**  **N D**  **.S TCMPLT="",TMBSNC="",TRDMRD="",COMM=0**  **.S TN0=$G(^PRCA(433,TN,0)) Q:TN0=""**  **.S TN1=$G(^PRCA(433,TN,1))**  **.S TN3=$G(^PRCA(433,TN,3))**  **.I $P(TN1,U,2)="" Q ;MISSING TRANS TYPE**  **.I $P(TN0,U,10)=1 S TCMPLT=1**  **.I $P(TN1,U,2)=45 S COMM=1 G F433A**  **.I $G(TTY)'="" Q:TTY'=$P(TN1,U,2)**  **.; Quit if Transaction Type is blank or one of the following:**  **.; 3:REFER TO RC, 4:REFER TO DOJ, 5:REESTABLISH TO RC/DOJ, 6:RETURNED BY RC/DOJ**  **.; 7:CASH COLLECTION BY RC/DOJ, 24:MARSHAL/COURT COST, 25:REPAYMENT PLAN, 30:DEBIT VOUCHER (SF 5515)**  **.I TTY="",",3,4,5,6,7,24,25,30,"[(","\_$P(TN1,U,2)\_",") Q**  **.; QUIT if BILL NUMBER (#.03)= blank OR TRANSACTION STATUS (#4) '= COMPLETE**  **.I ($P(TN0,U,2)="")!($P(TN0,U,4)'=2) Q**  **.; IF PRCAHIST="THIST" AND TRANSACTION TYPE (#12) = COMMENT (#45) call**  **F433A to Set the data into ^TMP("PRCAGTPS",$J,DEBTOR**  **.I $G(PRCAHIST)="THIST",$P(TN1,U,2)=45 G F433A**  **.; IF TRANSACTION TYPE (#12) '= to 46 UNSUSPENDED AND TRANSACTION TYPE (#12)'= to 47 CHARGE SUSPENDED**  **.I $P(TN1,"^",2)'=46,$P(TN1,"^",2)'=47 D I TN1="" Q**  **..N RCTRANDA,RCSTOP,TRANTYPE**  **..S RCSTOP=0**  **..; Loop BACKWARDS through the BILL NUMBER "C" x-ref**  **..S RCTRANDA=TN**  **..F S RCTRANDA=$O(^PRCA(433,"C",+$P(TN0,"^",2),RCTRANDA),-1) Q:'RCTRANDA D I RCSTOP Q**  **...; QUIT if TRANSACTION STATUS (#4) '= COMPLETE**  **...I $P($G(^PRCA(433,RCTRANDA,0)),"^",4)'=2 Q** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **...; Load Transaction Type**  **...S TRANTYPE=$P($G(^PRCA(433,RCTRANDA,1)),"^",2)**  **...; IF TRANSACTION TYPE (#12) = 46 UNSUSPENDED set stop & Quit**  **...I TRANTYPE=46 S RCSTOP=1 Q**  **...; IF TRANSACTION TYPE (#12) = 47 CHARGE SUSPENDED set stop & Quit**  **...I TRANTYPE=47 S RCSTOP=1,TN1="" Q F433A .**  **.; The data in the ^TMP is as follows:**  **.; Data =**  **.; 1. TRANS. AMOUNT (#15) $P(TN1,U,5)**  **.; 2. TRANSACTION TYPE (#12) $P(TN1,U,2)**  **.; 3. PRIN.COLLECTED (#31) $P(TN3,U,1)**  **.; 4. INTEREST COLLECTED (#32) $P(TN3,U,2)**  **.; 5. ADMIN.COLLECTED (#33) $P(TN3,U,3)**  **.; 6. MARSHAL FEE COLLECTED (#34) $P(TN3,U,4)**  **.; 7. COURT COST COLLECTED (#35) $P(TN3,U,5)**  **.; 8. TOTAL OF #3 - #7**  **$P(TN3,U,1)+$P(TN3,U,2)+$P(TN3,U,3)+$P(TN3,U,4)+$P(TN3,U,5)**  **.; 9. TCMPLT (#10) INCOMPLETE TRANSACTION FLAG**  **.;10. TRDMRD - Doesn't appear to be used**  **.;11. TMBSNC - Doesn't appear to be used**  **.;12. Duplicate flag for use in START2 1=duplicate, 0=not a duplicate. Set in**  **BILLQUIT^PRCACPSA**  **.;**  **.N PRCATEMP**  **.S PRCATEMP=$P(TN1,U,5)\_U\_$P(TN1,U,2)\_U\_$P(TN3,U,1)\_U\_$P(TN3,U,2)\_U\_$P(TN3,U,3)\_ U\_$P(TN3,U,4)\_U\_$P(TN3,U,5)**  **.S PRCATEMP=PRCATEMP\_U\_($P(TN3,U,1)+$P(TN3,U,2)+$P(TN3,U,3)+$P(TN3,U,4)+$P(TN3, U,5))**  **.S PRCATEMP=PRCATEMP\_U\_TCMPLT**  **.S PRCATEMP=PRCATEMP\_U\_TRDMRD**  **.S PRCATEMP=PRCATEMP\_U\_TMBSNC**  **.S ^TMP("PRCAGTPS",$J,DEBTOR,$P(TN0,U,2),TN)=PRCATEMP**  **.K TN0,TN1,TN3,TCMPLT,TRDMRD,TMBSNC,COMM K PRCAHIST**  **Q**  **;** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **START1 ;**  **;**  **S BILL=""**  **S CBALTOT=0 ; Will be the total of all CURRENT BALANCE field (#11) for the account**  **; ACCOUNTS RECEIVABLE (#430) The C cross-reference allows user look-up of bills belonging to a specific debtor.**  **; Loop through bills**  **; ^TMP("PRCABILL",$J,DEBTOR,BILL)= Sum of CURRENT BALANCE field (#11) for the Bill**  **; ^Sum of TRANS. AMOUNT (#15) for all transactions for the Bill**  **; ^Stop Flag if the Bill has more than one error**  **K ^TMP("PRCABILL",$J)**  **F S BILL=$O(^PRCA(430,"C",DEBTOR,BILL)) Q:BILL'?1N.N D**  **.; BILLTOT is the CURRENT BALANCE field (#11) for each Bill for the Debtor**  **.N BILLTOT**  **.S BN0=$G(^PRCA(430,BILL,0))**  **.; QUIT: CURRENT STATUS (#8) '= ACTIVE**  **.; I $P(BN0,U,8)'=16 Q based on call on 11/28/16 process all bill with a status other than Refund Review**  **.; Skip all Debtors with 1 or more Bills with a status of REFEUND REVIEW (#44). This check is done in**  **.; REFREV above.**  **.; Sum up CURRENT BALANCE (#11) for each ACTIVE Bill**  **.; Set in CBALTOT for BALDIFF and in PRCABILL for BILLDIFF in Start2**  **.; S CBALTOT=CBALTOT+$$GET1^DIQ(430,BILL,11)**  **.S BILLTOT=$$GET1^DIQ(430,BILL,11) ; Get CURRENT BALANCE (#11) which is computed: #71+#72+#73+#74+#75**  **.S ^TMP("PRCABILL",$J,DEBTOR,BILL)=+BILLTOT**  **.S CBALTOT=CBALTOT+BILLTOT**  **N BILL,I,TN,TRANSTOT,TNVAL,TTYPE,TNTOT S TN="",(BILL,TRANSTOT,TTYPE,TNVAL)=0**  **; Loop through Bills**  **F S BILL=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILL)) Q:BILL="" D**  **.; Call BILLQUIT to determine if this bill has multiple issues**  **.I $$BILLQUIT^PRCACPSA(DEBTOR,BILL) Q**  **.; Initialize TNTOT for Transaction Total for this bill**  **.I $G(TNTOT(BILL))="" S TNTOT(BILL)=0**  **.; Loop through Transactions** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.S TN=0 F S TN=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN)) Q:TN="" D**  **..; IF Transaction # = 0 Add TRANS. AMOUNT (#15) to the Transaction Total**  **..; I TN=0 S TRANSTOT=TRANSTOT+^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN) Q**  **..; S TNVAL = (#15) TRANS. AMOUNT from #433**  **..S TNVAL=+^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN)**  **..; S TTYPE = (#12) TRANSACTION TYPE from #433**  **..S TTYPE=+$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,2)**  **..; IF INCOMPLETE TRANSACTION FLAG is set, set Transaction amount = 0**  **..S TCMPLT=+$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,9)**  **..I TCMPLT S TNVAL=0**  **..S TMBSNC=$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,11)**  **..I TMBSNC S TNVAL=0**  **..; Set TNVAL =0 if one of the following Transaction Types:**  **..; 3:REFER TO RC, 4:REFER TO DOJ, 5:REESTABLISH TO RC/DOJ, 6:RETURNED BY RC/DOJ**  **..; 25:REPAYMENT PLAN, 32:RETURNED FOR AMENDMENT, 33:AMENDED BILL**  **..I (TTYPE=3)!(TTYPE=4)!(TTYPE=5)!(TTYPE=6)!(TTYPE=32)!(TTYPE=25)!(TTYPE=33) S TNVAL=0**  **..; Set TNVAL to negative value if one of the Transaction Types:**  **..; 2:PAYMENT (IN PART), 8:TERM.BY FIS.OFFICER, 9:TERM.BY COMPROMISE,**  **10:WAIVED IN FULL**  **..; 11:WAIVED IN PART, 14:EXEMPT INT/ADM. COST, 29:TERM.BY RC/DOJ,**  **34:PAYMENT (IN FULL)**  **..; 35:DECREASE ADJUSTMENT, 41:REFUNDED, 47:CHARGE SUSPENDED**  **..I TTYPE=2!(TTYPE=8)!(TTYPE=9)!(TTYPE=10)!(TTYPE=11)!(TTYPE=14)!(TTYPE=29)!(TTYP E=34)!(TTYPE=35)!(TTYPE=41)!(TTYPE=47) S T**  **NVAL=-TNVAL**  **..; Update Transaction Total**  **..S TRANSTOT=TRANSTOT+TNVAL**  **..; Update Transaction Total for this Bill**  **..S TNTOT(BILL)=TNTOT(BILL)+TNVAL**  **.; Update PRCABILL with Transaction Total for this Bill**  **.S $P(^TMP("PRCABILL",$J,DEBTOR,BILL),U,2)=TNTOT(BILL)**  **; Set Balance Difference = Sum up CURRENT BALANCE (#8) for each ACTIVE Bill - Transaction Total for all bills - PBAL from A**  **R EVENT file (#341)**  **S BALDIFF=CBALTOT-TRANSTOT-PBAL**  **K CBALTOT,TRANSTOT,PBAL,TCMPLT,BILL,BN0** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **Q**  **; START2 ;**  **N I,ATNLAST,BILL,BILLCNT,BILLCNTR,BILLNUM,FLAGGED,TN,TN9,TRANSTOT,TNVAL,TT**  **YPE,TCPLT,STOP,TRANCRNT,TRANPREV,TNLAST**  **S (BILL,BILLCNTR,FLAGGED)=0,ATNLAST=""**  **; ATNLAST = The last number for the account**  **; FLAGGED = Account level flag noting if audit data was marked for this account**  **; PRCAFIX(X) = Holds the total of the number of transactions for a bill that match to check criteria X**  **; Determine the number of bill for this account**  **S (BILLCNT,BILLCNTR)=0,BILLNUM=""**  **; Determine the number of bills for this account**  **F S BILLNUM=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILLNUM)) Q:'BILLNUM S BILLCNT=BILLCNT+1**  **; Loop through Bills**  **F S BILL=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILL)) Q:BILL="" D**  **.S BILLCNTR=BILLCNTR+1**  **.; QUIT if STOP flag is set for this Bill**  **.I $P($G(^TMP("PRCABILL",$J,DEBTOR,BILL)),U,3)=1 S FLAGGED=FLAGGED+1 Q**  **.; New and set Bill Balance Difference**  **.N BILLDIFF**  **.; \*\*\*\*\* The following 2 formulas will need to be re-evaluated once the VA supplies us the necessary details \*\*\*\*\***  **.; If the Original Bill Amount is not null use this formula**  **.I +$G(^TMP("PRCAGTPS",$J,DEBTOR,BILL,0)) D**  **..S BILLDIFF=$P($G(^TMP("PRCAGTPS",$J,DEBTOR,BILL,0)),U,1)-**  **$P($G(^TMP("PRCABILL",$J,DEBTOR,BILL)),U,1)+$P($G(^TMP("PRCABILL**  **",$J,DEBTOR,BILL)),U,2)**  **.; If the Original Amount is null use this formula**  **.I '+$G(^TMP("PRCAGTPS",$J,DEBTOR,BILL,0)) D**  **..S BILLDIFF=$P($G(^TMP("PRCABILL",$J,DEBTOR,BILL)),U,1)-**  **$P($G(^TMP("PRCABILL",$J,DEBTOR,BILL)),U,2)**  **.; Quit if Bill Balance Difference is zero**  **.I 'BILLDIFF Q**  **.; PRCAFIX(X) = Holds the total of the number of transactions for a bill that match to check criteria X**  **.; PRCATTTF = Total Transaction Types to Fix**  **.N PRCATTTF,PRCAFIX** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.S (PRCATTTF,TRANSTOT,TTYPE,TNVAL)=0**  **.S (TN,TNLAST)=""**  **.; Initialize type of fix counts**  **.F I=1:1:4 S PRCAFIX(I)=""**  **.;**  **.F S TN=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN)) Q:TN="" D**  **..; Save first transaction number**  **..S (ATNLAST,TNLAST)=TN**  **..; IF Transaction number = 0 update Transaction Total with (#15) TRANS. AMOUNT**  **from #433**  **..I TN=0 S TRANSTOT=TRANSTOT+^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN) Q**  **..; Set TNVAL = (#15) TRANS. AMOUNT from #433**  **..S TNVAL=$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,1)**  **..; Set TTYPE = (#12) TRANSACTION TYPE from #433**  **..S TTYPE=+$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,2)**  **..; Set TCPLT = (#10) INCOMPLETE TRANSACTION FLAG**  **..S TCPLT=+$P($G(^PRCA(433,TN,0)),U,10)**  **..; I think this will always be blank**  **..S TRDMRD=$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,10)**  **..; I think this will always be blank**  **..S TMBSNC=$P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,11)**  **..; Quit it this transaction was previously used to correct an out of balance scenario**  **..S TN9=$G(^PRCA(433,TN,9))**  **..Q:$P(TN9,U,4)'=""**  **..;**  **..; \*\*\* The Null transaction check will be implemented in PRCA\*4.5\*313 \*\*\***  **..; Check #1 - Transaction with missing $ amount & Transaction Type '= Comment**  **(#45)**  **..;I TNVAL="",(TTYPE'=45) D Q**  **..;.S PRCAFIX(1)=$G(PRCAFIX(1))+1,IENCRRT=TN**  **..;.S PRCAFIX(1,TN)=""**  **..;**  **..; Check #2 - Transaction marked as Incomplete with +$ amount matching off by amount**  **..I TNVAL=BILLDIFF I TCPLT D Q**  **...Q:(TTYPE=45)**  **...I TRDMRD Q**  **...S PRCAFIX(2)=$G(PRCAFIX(2))+1,IENCRRT=TN**  **...S PRCAFIX(2,TN)=""** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **..;**  **..; Check #3 - Transaction marked as Incomplete with -$ amount matching off by amount**  **..I -TNVAL=BILLDIFF I TCPLT D Q**  **...Q:(TTYPE=45)**  **...S PRCAFIX(3)=$G(PRCAFIX(3))+1,IENCRRT=TN**  **...S PRCAFIX(3,TN)=""**  **..;**  **..; Check #4 - Duplicate Transaction**  **..I TTYPE'=45,($P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,12)=1) D**  **...S PRCAFIX(4)=$G(PRCAFIX(4))+1,IENCRRT=TN**  **...S PRCAFIX(4,TN)=""**  **.;**  **.; Quit if there were no transactions for this bill**  **.I $G(IENCRRT)=""!($G(TNLAST)="") Q**  **.; If we are on the last Bill and there were no transactions for the entire account Quit**  **.I BILLCNTR=BILLCNT,ATNLAST="" Q**  **.;**  **.F I=1:1:4 D**  **..S PRCATTTF=PRCATTTF+PRCAFIX(I)**  **.; if you get to here the bill was out of balance and if it shows nothing to fix, set last transaction**  **.; for this Bill to NOT FIXABLE**  **.I PRCATTTF=0 D UPDTLTR^PRCACPSA($G(TNLAST)) S FLAGGED=1 Q**  **.; Update this bill**  **.D FIXBILL(.FLAGGED) Q:FLAGGED**  **; The account was out of balance but nothing was found on any bill that could be fixed.**  **; Mark the last transaction for the last bill for this account as not fixable. I 'FLAGGED D UPDTLTR^PRCACPSA($G(ATNLAST))**  **Q**  **;**  **FIXBILL(FLAGGED) ;Update a single bill using PRCAFIX array**  **; Make update determination based on checks 1 - 4.**  **; Sum up check totals**  **;F I=1:1:4 D**  **;.S PRCATTTF=PRCATTTF+PRCAFIX(I)**  **; Get current date/time** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **N PRCADATE D NOW^%DTC**  **S PRCADATE=X**  **; Otherwise there is only 1 bad transaction so update as needed**  **; Lock Record**  **L +^PRCA(433,IENCRRT,9):DILOCKTM**  **; If lock not obtained, update number of transactions that couldn't be fixed**  **Q:'$T**  **; Set FDA array for the necessary fields based on the type of fix identified**  **N PRCAFDA**  **; \*\*\* The Null transaction check will be implemented in PRCA\*4.5\*313 \*\*\***  **; Check #1 - Transaction with missing $ amount**  **;I PRCAFIX(1) D**  **;.S PRCAFDA(433,IENCRRT\_",",15)=$S(BILLDIFF>0:BILLDIFF,1:-BILLDIFF)**  **;.S PRCAFDA(433,IENCRRT\_",",94)=PRCADATE**  **;.S PRCAFDA(433,IENCRRT\_",",95)=$S(BILLDIFF>0:BILLDIFF,1:-BILLDIFF)**  **;.S PRCAFDA(433,IENCRRT\_",",96)="N" ; NULL TRANSACTION AMOUNT**  **; Check #2 - Transaction marked as Incomplete with +$ amount matching off by amount**  **; Check #3 - Transaction marked as Incomplete with -$ amount matching off by amount**  **I PRCAFIX(2)!(PRCAFIX(3)) D**  **.S PRCAFDA(433,IENCRRT\_",",10)=""**  **.S PRCAFDA(433,IENCRRT\_",",94)=PRCADATE**  **.S PRCAFDA(433,IENCRRT\_",",96)="I" ; INCOMPLETE FLAG ERROR**  **; Check #4 - Duplicate Transaction**  **I PRCAFIX(4) D**  **.; Null out audit fields on original transaction**  **.S PRCAFDA(433,IENCRRT-1\_",",94)=""**  **.S PRCAFDA(433,IENCRRT-1\_",",95)=""**  **.S PRCAFDA(433,IENCRRT-1\_",",96)=""**  **.L +^PRCA(433,IENCRRT-1,9):DILOCKTM**  **.Q:'$T**  **.D FILE^DIE(,"PRCAFDA")**  **.L -^PRCA(433,IENCRRT-1,9)**  **.; Set the fields for the duplicate transaction**  **.S PRCAFDA(433,IENCRRT\_",",10)=1 ; INCOMPLETE TRANSACTION**  **.S PRCAFDA(433,IENCRRT\_",",94)=PRCADATE**  **.S PRCAFDA(433,IENCRRT\_",",95)=$S(BILLDIFF>0:BILLDIFF,1:-BILLDIFF)** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.S PRCAFDA(433,IENCRRT\_",",96)="D" ; DUPLICATE TRANSACTION**  **; Update Transaction**  **D FILE^DIE(,"PRCAFDA") S FLAGGED=1**  **; Unlock file**  **L -^PRCA(433,IENCRRT,9) K TMBSNC,IENCRRT**  **Q**  **;**  **DIQOUTCS(DIQOUT) ;Return checksum for a processed DIQOUT array.**  **N CS,DATA,FIELD,FNUM,IENS,IND,SFN,STRING,TARGET,TEXT,WP S FNUM=$O(DIQOUT(""))**  **S (CS,FNUM)=0**  **F S FNUM=$O(DIQOUT(FNUM)) Q:FNUM="" D**  **.S IENS=""**  **.F S IENS=$O(DIQOUT(FNUM,IENS)) Q:IENS="" D**  **..S FIELD=0**  **..F S FIELD=$O(DIQOUT(FNUM,IENS,FIELD)) Q:FIELD="" D**  **...S DATA=DIQOUT(FNUM,IENS,FIELD)**  **...S TEXT=FNUM\_$L(IENS,",")\_FIELD\_DATA**  **...S CS=$$CRC32^XLFCRC(TEXT,CS) Q CS**  **;**  **USRMSG ;sends mailman message to the PRCACPS mail group**  **N XMY,XMDUZ,XMSUB,XMTEXT,X S XMDUZ="AR PACKAGE"**  **S XMY("G.PRCACPS")=""**  **S XMSUB="CPS AUTO-CORRECTION COMPLETE "\_$E(DT,4,5)\_"/"\_$E(DT,6,7)\_"/"\_$E(DT,2,3)**  **S X(1)="Consolidated Patient Statement Auto-Correction"**  **S X(2)="Program completed on "\_$$FMTE^XLFDT($$NOW^XLFDT(),"5P") S XMTEXT="X("**  **D ^XMD**  **; Remove ^XTMP node**  **K ^XTMP("PRCACPS",0) Q**  **; PRCAMAIL(PRCASTRT) ;**  **; Send e-mail notification to the PRCACPS mail group if the Auto-Correct was** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **manually run**  **; when it showed to be currently running or possible errored out on a previous attempt.**  **;**  **; PRCASTART = External format of date/time (i.e. OCT 12, 2016@09:39:58) that the**  **; Auto-Correct program was last started. N XMY,XMDUZ,XMSUB,XMTEXT,X**  **S XMDUZ="AR PACKAGE" S XMY("G.PRCACPS")=""**  **S XMSUB="CPS AUTO-CORRECTION FAILURE "\_$E(DT,4,5)\_"/"\_$E(DT,6,7)\_"/"\_$E(DT,2,3)**  **S X(1)="The Patient Statement Auto-Correction Program was started on:" S X(2)=PRCASTRT\_" and may not have completed normally."**  **S X(3)=""**  **S X(4)="Please have OI&T check the error trap for any errors related to routine" S X(5)="PRCACPS on this date."**  **S XMTEXT="X(" D ^XMD**  **Q** | | |

**Table 13: Routine : PRCACPSA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Routine Name** | | | PRCACPSA | | |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **RTM** | | | ACJ001-ACJ013 | | |
| **Related Options** | | | Patient Statement Auto-Correction Program | | |

**Related Routines Routines “Called By” Routines “Called”**

NOW^%DTC FILE^DIE

PRCACPS

GETS^DIQ

$$DIQOUTCS^PRCACPS

**Routines Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | ACCOUNTS RECEIVABLE File (#430) AR TRANSACTION File (#433)  AR DEBTOR File (#340) | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| NA | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **PRCACPSA ;ALBANY/MGD-PATIENT STATEMENTS AUTO-CORRECTION ;09/21/15 3:34**  **PM**  **;;4.5;Accounts Receivable;\*\*307\*\*;Mar 20, 1995;Build 79**  **;;Per VA Directive 6402, this routine should not be modified.**  **; Q**  **; BILLQUIT(DEBTOR,BILL) ;**  **; check news and initializations**  **N FILENUM,IENCRRT,IENPREV,PRCABFIX,PRCABST,PRCAFDA,PRCACUR,PRCACUR1,PR CAPRV,PRCAPRV1,TN,TNLAST,TRNSCRRT,TRNSPREV,X**  **S TNLAST=""**  **S PRCABFIX=0**  **S TN=0**  **F S TN=$O(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN)) Q:'TN D**  **.; Load 0 and 1 nodes**  **.S PRCACUR=$G(^PRCA(433,TN,0))**  **.S PRCACUR1=$G(^PRCA(433,TN,1))** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.; Quit if this Transaction is a COMMENT**  **.I $P(PRCACUR1,U,2)=45 Q**  **.; Quit if this transaction was updated earlier as part of an previous fix**  **.I $P($G(^PRCA(433,TN,9)),U,4) Q**  **.S TNLAST=TN**  **.; Check if Transaction is marked as INCOMPLETE**  **.I $P(PRCACUR,U,10)=1 S PRCABFIX=PRCABFIX+1,PRCABFIX("I")=$G(PRCABFIX("I"))+1**  **.; \*\*\* The Null transaction check will be implemented in PRCA\*4.5\*313 \*\*\***  **.; Check if zero dollar amount**  **.;I $P(PRCACUR1,U,5)="" S PRCABFIX=PRCABFIX+1,PRCABFIX("N")=$G(PRCABFIX("N"))+1**  **.S PRCAPRV=$G(^PRCA(433,TN-1,0))**  **.S PRCAPRV1=$G(^PRCA(433,TN-1,1))**  **.; Perform quick high level duplicate check**  **.I $P(PRCACUR,U,2)'=$P(PRCAPRV,U,2) Q ; QUIT if (#.03) BILL NUMBER don't match**  **.I $P(PRCACUR,U,9)'=$P(PRCAPRV,U,9) Q ; QUIT if (#42) PROCESSED BY don't match**  **.I $P(PRCACUR1,U,1)'=$P(PRCAPRV1,U,1) Q ; QUIT if (#11) TRANSACTION DATE**  **don't match**  **.I $P(PRCACUR1,U,5)'=$P(PRCAPRV1,U,5) Q ; QUIT if (#15) TRANS. AMOUNT don't match**  **.; Perform detailed duplicate check**  **.S IENPREV=TN-1,IENCRRT=TN,FILENUM=433**  **.K TRNSPREV S FILENUM=433 D GETS^DIQ(FILENUM,IENPREV,"\*\*","N","TRNSPREV","MSG")**  **.K TRNSCRRT S FILENUM=433 D GETS^DIQ(FILENUM,IENCRRT,"\*\*","N","TRNSCRRT","MSG")**  **.S TRNSCRRT(433,TN\_",",.01)=TRNSPREV(433,(TN-1)\_",",.01)**  **.I $D(TRNSPREV(433,(TN-1)\_",",41)) S TRNSCRRT(433,TN\_",",41)=$G(TRNSPREV(433,(TN-1)\_",",41))**  **.I $$DIQOUTCS^PRCACPS(.TRNSPREV)'=$$DIQOUTCS^PRCACPS(.TRNSCRRT) Q**  **.; Set duplicate flag which will be used in START2**  **.S $P(^TMP("PRCAGTPS",$J,DEBTOR,BILL,TN),U,12)=1**  **.; we have a duplicate so update counter**  **.S PRCABFIX=PRCABFIX+1,PRCABFIX("D")=$G(PRCABFIX("D"))+1**  **; Get Bill Status for checks**  **S PRCABST=$P($G(^PRCA(430,BILL,0)),U,8)**  **;** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **; 3rd piece of ^TMP("PRCABILL",$J,DEBTOR,BILL) is stop/go flag for this bill.**  **; Set below and utilized in START2^PRCACPS**  **;**  **; Check for Duplicate needs to include Bill Status of ACTIVE (#16), OPEN (#42) or**  **CANCELLATION (#39)**  **; If there was only 1 problem and that problem was a Duplicate and the Bill Status is**  **ACTIVE or OPEN**  **; or CANCELLATION Quit and let it get set in CHECK2**  **I PRCABFIX=1,$G(PRCABFIX("D"))=1,(PRCABST=16!(PRCABST=42)!(PRCABST=39)) S**  **$P(^TMP("PRCABILL",$J,DEBTOR,BILL),U,3)=0 Q 0**  **; If a single problem on a Bill in a status other than Active or Open mark last transaction as NOT FIXABLE**  **I PRCABFIX=1,PRCABST'=16&(PRCABST'=42) D UPDTLTR($G(TNLAST))**  **; If a single problem on a Bill in a status of Active or Open will be further checked in**  **START2**  **I PRCABFIX=1,(PRCABST=16!(PRCABST=42)) S PRCABFIX=0**  **; If multiple problems set audit fields for last transaction for the Bill**  **I PRCABFIX>1 D UPDTLTR($G(TNLAST)) S PRCABFIX=1**  **; Update Bill level stop flag**  **S $P(^TMP("PRCABILL",$J,DEBTOR,BILL),U,3)=PRCABFIX Q PRCABFIX**  **; UPDTLTR(TNLAST) ;**  **; Initialize variables**  **N PRCABILL,PRCABILX,PRCADTR,PRCATN,PRCAUPDT**  **; Initialize PRCAUPDT to 0 (i.e. No). This flag is set to 1 when an transaction was updated with the audit data**  **S PRCAUPDT=0**  **; If TNLAST was undefined or null or something other than a positive number, set**  **TNLAST=0**  **; If TNLAST was a positive number, leave it as is**  **S TNLAST=+$G(TNLAST,0)**  **; If the IEN was a decimal number, strip off the decimal amount**  **S TNLAST=$P(TNLAST,".",1)**  **; Init checks for a positive IEN and no corresponding transaction**  **I +TNLAST>0,'$D(^PRCA(433,TNLAST,0)) S TNLAST=0**  **; Init checks for a positive IEN and this Transaction exists**  **I +TNLAST>0,$D(^PRCA(433,TNLAST,0)) D Q:PRCAUPDT**  **.; If this transaction hasn't been previously used to flag an account, use it** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.I $P($G(^PRCA(433,TNLAST,9)),U,6)="" S PRCAUPDT=1 D UPDTSET(TNLAST) Q**  **.; If this transaction was previously used to identify a NOT FIXABLE issue**  **.; update it again to have today's date**  **.I $P($G(^PRCA(433,TNLAST,9)),U,6)="X" S PRCAUPDT=1 D UPDTSET(TNLAST) Q**  **.; If this Transaction was previously used to fix an issue other than NOT FIXABLE,**  **.; reset to 0 to make it find another transaction**  **.I $P($G(^PRCA(433,TNLAST,9)),U,6)'="",($P($G(^PRCA(433,TNLAST,9)),U,6)'="X") S TNLAST=0**  **.Q**  **; If you get to here, TNLAST was either sent in with a positive value that couldn't be used**  **; OR TNLAST was sent in as a null or 0. Either way, try to find another acceptable transaction to mark**  **; There is a possibility that no transaction can be found to mark, in which case, just quit**  **I +TNLAST<1 D Q:+TNLAST<1**  **.S PRCABILX=""**  **.F S PRCABILX=$O(^TMP("PRCAGTPS",$J,DEBTOR,PRCABILX),-1) Q:'PRCABILX D Q:TNLAST**  **..S PRCATN=""**  **..F S PRCATN=$O(^TMP("PRCAGTPS",$J,DEBTOR,PRCABILX,PRCATN),-1) Q:'PRCATN D Q:TNLAST**  **...; Quit if this transaction from ^TMP doesn't exist in ^PRCA(433**  **...I '$D(^PRCA(433,PRCATN,0)) Q**  **...; If this transaction hasn't been marked for anything, use it**  **...I $P($G(^PRCA(433,PRCATN,9)),U,6)="" S TNLAST=PRCATN Q**  **...; Check if this transaction was previously flagged as some fix other than NOT FIXABLE**  **...I $P($G(^PRCA(433,PRCATN,9)),U,6)'="X" Q**  **...; If this transction was previously marked as NOT FIXABLE, mark it again with today's date**  **...S TNLAST=PRCATN**  **; QUIT If no acceptable transaction could be found**  **Q:+TNLAST<1**  **; QUIT if this transaction doesn't exist for some reason**  **Q:'$D(^PRCA(433,TNLAST,0))**  **; Call UPDTSET to update the transaction that was identified**  **D UPDTSET(TNLAST) Q**  **;** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **UPDTSET(TNLAST) ; Once transaction has been identified, set the necessary audit fields**  **; Identify Bill for this Transaction**  **S PRCABILL=$P($G(^PRCA(433,TNLAST,0)),U,2)**  **; Quit if bill can't be identified**  **Q:PRCABILL=""**  **; Use Bill to identify Debtor**  **S PRCADTR=$P($G(^PRCA(430,PRCABILL,0)),U,9)**  **; Quit if Debtor can't be defined**  **Q:PRCADTR=""**  **; Quit if the stop flag for this bill was previously set in $$BILLQUIT^PRCACPSA I $P($G(^TMP("PRCABILL",$J,PRCADTR,PRCABILL)),U,3) Q**  **; Get current date**  **D NOW^%DTC N PRCADATE**  **S PRCADATE=X**  **; Set up Audit Field Array**  **S PRCAFDA(433,TNLAST\_",",94)=PRCADATE**  **S PRCAFDA(433,TNLAST\_",",96)="X" ; NOT FIXABLE S PRCAFDA(433,TNLAST\_",",97)=1**  **L +^PRCA(433,TNLAST,9):DILOCKTM**  **; QUIT if lock not obtainable**  **Q:'$T**  **; Update record**  **D FILE^DIE(,"PRCAFDA")**  **; Unlock file**  **L -^PRCA(433,TNLAST,9) Q** | | |

**Table 14: Routines: PRCAACR Routines Activities**

**Routine Name** PRCAACR

**Enhancement Category** New Modify Delete No Change

**RTM** ACR001 – ACR012

**Related Options** Auto-Correct Patient Discrepancy Report

**Related Routines Routines “Called By” Routines “Called”**

DD^%DT

^%ZIS

^%ZISC

^%ZTLOAD

$$GET1^DIQ

^DIR PRT^PRCAACR1

PRCAMAIL^PRCACPS

$$UPPER^VALM1

$$FMTE^XLFDT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **PRCAACR ;ALBANY/BDB-PATIENT STATEMENTS AUTO-CORRECTION REPORT**  **;09/21/15 3:34 PM**  **;;4.5;Accounts Receivable;\*\*307\*\*;Mar 20, 1995;Build 55**  **;;Per VA Directive 6402, this routine should not be modified.**  **; Q**  **;**  **PSACRT ; report, prints sorted individual transactions that have been auto-corrected** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **N DIC,PAGE,BY,DHD,FILENUM,FLDS,FR,L,TO,PRCABDT,PRCAEDT,PRCASORT W !**  **PSDATE ;**  **; Determine if Auto Correct process is currently running**  **N PRCASTRT,QUIT,X,X1,X2,Y**  **S PRCASTRT=$G(^XTMP("PRCACPS",0)),QUIT=""**  **; QUIT if Auto Correct process is currently running**  **I PRCASTRT'="" D Q:QUIT**  **.S Y=$P(PRCASTRT,U,2)**  **.D DD^%DT**  **.S PRCASTRT=Y**  **.W !!,"The Patient Statement Auto-Correction Program is currently running."**  **.W !,"It was started at ",PRCASTRT," and can take up to 1 hour to complete."**  **.W !!,"If you choose to continue with this report, it may not reflect all of the"**  **.W !,"changes from this latest run of the Patient Statement Auto-Correction Program."**  **.W !**  **.S DIR(0)="Y",DIR("A")="Do you want to continue",DIR("B")="NO"**  **.D ^DIR**  **.W !**  **.; Quit if ^, ^^, Timeout or No**  **.I $D(DTOUT)!($D(DUOUT))!($D(DIROUT))!(Y=0) S QUIT=1**  **.; Send MailMan message to PRCACPS mail group if Yes**  **.I Y=1 D PRCAMAIL^PRCACPS(PRCASTRT)**  **.K DTOUT,DUOUT,DIROUT**  **;**  **N DIROUT,DIS,DTOUT,DUOUT**  **S DIR("A")="Date Range: FROM: ",DIR("B")="T-7"**  **S DIR("?")="The default date is T-7. Future dates may not be entered." S DIR(0)="DO" D ^DIR**  **S:Y'="" PRCABDT=Y**  **I $D(DIRUT)&'Y K DIRUT Q**  **I PRCABDT>DT G PSDATE W "(",Y(0),")"**  **K DIR,X,Y**  **S DIR(0)="DO"**  **S DIR("A")="Date Range: TO: ",DIR("B")="T"**  **S DIR("?")="The default date is T, but any date may be entered." D ^DIR S:Y="" Y=DT**  **I $D(DIRUT)&'Y K DIRUT Q**  **W "(",Y(0),")"**  **S PRCAEDT=Y**  **I PRCABDT>PRCAEDT G PSDATE K DIR**  **S DIR(0)="S^1:Bill Number;2:Debtor Name;3:Auto-Correct Date;4:Transaction**  **Number",DIR("A")="Sort by" D ^DIR K DIR**  **S PRCASORT=Y** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **Q:$D(DTOUT)!($D(DUOUT))!($D(DIROUT))**  **;**  **; Prompt for device**  **W !**  **N ZTRTN,ZTDESC,ZTSAVE S %ZIS="Q"**  **D ^%ZIS Q:POP**  **I $D(IO("Q")) D Q**  **.I $G(IOST)["P-MES" S ZTRTN="PRT^PRCAACR1"**  **.I $G(IOST)'["P-MES" S ZTRTN="PRT^PRCAACR"**  **.S ZTSAVE("PRCABDT")="",ZTSAVE("PRCAEDT")="",ZTSAVE("PRCASORT")=""**  **.D ^%ZTLOAD**  **.D ^%ZISC**  **.K IO("Q"),POP**  **;**  **;Print Report if not QUEUED PRT ;**  **; If not queued and output sent to P-MES**  **I $G(IOST)["P-MES" D PRT^PRCAACR1 Q**  **;If not queued and output not sent to P-MES U IO**  **K ^TMP("PRCAACR",$J)**  **S PAGE=0**  **S DASH="",$P(DASH,"-",79)=""**  **S DIS(0)="I $D(^PRCA(433,""TACD"",PRCATSRT,D0))",L=0**  **N PRCATSRT,PRCATN,PRCAACD,PRCAACR,PRCABN,PRCADATA,PRCADTR,PRCASSN S PRCATSRT=PRCABDT-.00001**  **; Loop through the specified date range**  **F S PRCATSRT=$O(^PRCA(433,"TACD",PRCATSRT)) Q:PRCATSRT=""!(PRCATSRT>PRCAEDT) D**  **.S PRCATN=""**  **.; Loop through the transactions for the current date**  **.F S PRCATN=$O(^PRCA(433,"TACD",PRCATSRT,PRCATN)) Q:'PRCATN D**  **..; Load associated data fields for report**  **..S PRCABN=$P(^PRCA(433,PRCATN,0),U,2)**  **..S PRCADTR=$$GET1^DIQ(430,PRCABN\_",",9) ; (#9) DEBTOR**  **..S PRCASSN=$G(^PRCA(430,PRCABN,0)) ; Load 0 Node**  **..S PRCASSN=$P(PRCASSN,U,9) ; get IEN of Debtor**  **..S PRCABN=$$GET1^DIQ(433,PRCATN\_",",.03) ; (#.03) BILL NUMBER**  **..S PRCASSN=$$GET1^DIQ(340,PRCASSN\_",",110) ; SSN**  **..S PRCAACD=$$GET1^DIQ(433,PRCATN\_",",94) ;(#94) AUTO-CORRECTION DATE**  **..S PRCAACR=$$GET1^DIQ(433,PRCATN\_",",96) ;(#96) AUTO-CORRECTION TYPE OF ERROR**  **..;**  **..; Store in ^TMP sorted by Bill Number, Debtor and Transaction #**  **..I PRCASORT=1 D Q**  **...S ^TMP("PRCAACR",$J,PRCABN,PRCADTR,PRCATN)=PRCABN\_U\_PRCADTR\_U\_PRC** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **ASSN\_U\_PRCATN\_U\_PRCAACD\_U\_PRCAACR**  **..;**  **..; Store in ^TMP sorted by Debtor, Bill Number and Transaction #**  **..I PRCASORT=2 D Q**  **...S ^TMP("PRCAACR",$J,PRCADTR,PRCABN,PRCATN)=PRCADTR\_U\_PRCABN\_U\_PRC ASSN\_U\_PRCATN\_U\_PRCAACD\_U\_PRCAACR**  **..;**  **..; Store in ^TMP sorted by Auto-Correct Date, Debtor, Bill Number and Transaction #**  **..I PRCASORT=3 D Q**  **...S ^TMP("PRCAACR",$J,PRCAACD,PRCADTR,PRCABN,PRCATN)=PRCAACD\_U\_PRCA DTR\_U\_PRCABN\_U\_PRCASSN\_U\_PRCATN\_U\_PRCAACR**  **..; Store in ^TMP sorted by Bill Number, Debtor and Transaction #**  **..;**  **..; Store in ^TMP sorted by Transaction, Debtor and #Bill Number**  **..I PRCASORT=4 D Q**  **...S ^TMP("PRCAACR",$J,PRCATN,PRCADTR,PRCABN)=PRCATN\_U\_PRCADTR\_U\_PRC ABN\_U\_PRCASSN\_U\_PRCAACD\_U\_PRCAACR**  **..; Store in ^TMP sorted by Bill Number, Debtor and Transaction #**  **;**  **; Display Auto-Correct data sorted by Bill Number**  **N QUIT ; QUIT before end of report**  **S QUIT=""**  **I PRCASORT=1 D**  **.; Display Bill Number header**  **.D PSACRTP1**  **.S PRCABN=""**  **.F S PRCABN=$O(^TMP("PRCAACR",$J,PRCABN)) Q:'PRCABN D Q:QUIT**  **..S PRCADTR=""**  **..F S PRCADTR=$O(^TMP("PRCAACR",$J,PRCABN,PRCADTR)) Q:PRCADTR="" D Q:QUIT**  **...S PRCATN=""**  **...F S PRCATN=$O(^TMP("PRCAACR",$J,PRCABN,PRCADTR,PRCATN)) Q:'PRCATN D Q:QUIT**  **....S PRCADATA=^TMP("PRCAACR",$J,PRCABN,PRCADTR,PRCATN)**  **....W !,$J(PRCABN,11),?13,$E(PRCADTR,1,18),?33,$E($P(PRCADATA,U,3),6,9),?39,$J(PR CATN,9),?50,$P(PRCADATA,U,5),?64,$E($P(PRCADATA,U,6),1,14)**  **....I $Y>(IOSL-2) D**  **.....I $E(IOST,1,2)="C-" D Q:QUIT**  **......D PRTC**  **......I $D(DIRUT)!($D(DTOUT)) S QUIT=1**  **.....D PSACRTP1**  **;**  **; Display Auto-Correct data sorted Debtor**  **I PRCASORT=2 D**  **.; Display Debtor header**  **.D PSACRTP2**  **.S PRCADTR=""** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.F S PRCADTR=$O(^TMP("PRCAACR",$J,PRCADTR)) Q:PRCADTR="" D Q:QUIT**  **..S PRCABN=""**  **..F S PRCABN=$O(^TMP("PRCAACR",$J,PRCADTR,PRCABN)) Q:'PRCABN D Q:QUIT**  **...S PRCATN=""**  **...F S PRCATN=$O(^TMP("PRCAACR",$J,PRCADTR,PRCABN,PRCATN)) Q:'PRCATN D Q:QUIT**  **....S PRCADATA=^TMP("PRCAACR",$J,PRCADTR,PRCABN,PRCATN)**  **....W !,$E(PRCADTR,1,18),?20,$J(PRCABN,11),?33,$E($P(PRCADATA,U,3),6,9),?39,$J(PR CATN,9),?50,$P(PRCADATA,U,5),?64,$E($P(PRCADATA,U,6),1,14)**  **....I $Y>(IOSL-2) D**  **.....I $E(IOST,1,2)="C-" D Q:QUIT**  **......D PRTC**  **......I $D(DIRUT)!($D(DTOUT)) S QUIT=1**  **.....D PSACRTP2**  **;**  **; Display Auto-Correct data sorted AUTO-C DATE I PRCASORT=3 D**  **.; Display AUTO-C DATE header**  **.D PSACRTP3**  **.S PRCAACD=""**  **.F S PRCAACD=$O(^TMP("PRCAACR",$J,PRCAACD)) Q:PRCAACD="" D Q:QUIT**  **..S PRCADTR=""**  **..F S PRCADTR=$O(^TMP("PRCAACR",$J,PRCAACD,PRCADTR)) Q:PRCADTR="" D Q:QUIT**  **...S PRCABN=""**  **...F S PRCABN=$O(^TMP("PRCAACR",$J,PRCAACD,PRCADTR,PRCABN)) Q:'PRCABN D Q:QUIT**  **....S PRCATN=""**  **....F S PRCATN=$O(^TMP("PRCAACR",$J,PRCAACD,PRCADTR,PRCABN,PRCATN)) Q:'PRCATN D Q:QUIT**  **.....S PRCADATA=^TMP("PRCAACR",$J,PRCAACD,PRCADTR,PRCABN,PRCATN)**  **.....W !,PRCAACD,?14,$E(PRCADTR,1,18),?34,$J(PRCABN,11),?47,$E($P(PRCADATA,U,4**  **),6,9),?53,$J(PRCATN,9),?64,$E($P(PRCADATA,U,6),1,14)**  **.....I $Y>(IOSL-2) D**  **......I $E(IOST,1,2)="C-" D Q:QUIT**  **.......D PRTC**  **.......I $D(DIRUT)!($D(DTOUT)) S QUIT=1**  **......D PSACRTP3**  **;**  **; Display Auto-Correct data sorted Transaction Number**  **I PRCASORT=4 D**  **.; Display AUTO-C DATE header**  **.D PSACRTP4**  **.S PRCATN=""**  **.F S PRCATN=$O(^TMP("PRCAACR",$J,PRCATN)) Q:'PRCATN D Q:QUIT**  **..S PRCADTR=""**  **..F S PRCADTR=$O(^TMP("PRCAACR",$J,PRCATN,PRCADTR))** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **Q:PRCADTR="" D Q:QUIT**  **...S PRCABN=""**  **...F S PRCABN=$O(^TMP("PRCAACR",$J,PRCATN,PRCADTR,PRCABN)) Q:'PRCABN D Q:QUIT**  **....S PRCADATA=^TMP("PRCAACR",$J,PRCATN,PRCADTR,PRCABN)**  **....W !,$J(PRCATN,9),?11,$E(PRCADTR,1,18),?31,$J(PRCABN,11),?44,$E($P(PRCADATA, U,4),6,9),?50,$P(PRCADATA,U,5),?64,$E($P(PRCADATA,U,6),1,14)**  **....I $Y>(IOSL-2) D**  **.....I $E(IOST,1,2)="C-" D Q:QUIT**  **......D PRTC**  **......I $D(DIRUT)!($D(DTOUT)) S QUIT=1**  **.....D PSACRTP4**  **D ^%ZISC**  **I $E(IOST,1,2)="C-",'$D(DUOUT),('$D(DTOUT)) W ! S DIR(0)="E" D ^DIR K X,Y,DASH,D0**  **Q**  **;**  **PRTC ; Press Return To Continue**  **S DIR(0)="E" D ^DIR Q**  **;**  **PSACRTP1 ; header for patient statement auto-correction report 1**  **W @IOF**  **S PAGE=PAGE+1**  **W "PAGE "\_PAGE,?8,"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY BILL**  **#)",?66,$$UPPER^VALM1($$FMTE^XLFDT(DT)) W !,DASH,!**  **W !,"BILL NO.",?13,"DEBTOR",?33,"SSN",?39,"TRANS NUM",?50,"AUTO-C**  **DATE",?64,"AUTO-C REASON"**  **W !,"-----------",?13,"------------------",?33,"----",?39,"---------",?50,"------------",?64,"--------------" Q**  **;**  **PSACRTP2 ; header for patient statement auto-correction report 2**  **W @IOF**  **S PAGE=PAGE+1**  **W "PAGE "\_PAGE,?8,"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY DEBTOR)",?66,$$UPPER^VALM1($$FMTE^XLFDT(DT))**  **W !,DASH,!**  **W !,"DEBTOR",?20,"BILL NO.",?33,"SSN",?39,"TRANS NUM",?50,"AUTO-C DATE",?64,"AUTO-C REASON"**  **W !,"------------------",?20,"-----------",?33,"----",?39,"---------",?50,"------------",?64,"--------------"**  **Q**  **;**  **PSACRTP3 ; header for patient statement auto-correction report 3**  **W @IOF**  **S PAGE=PAGE+1**  **W "PAGE "\_PAGE,?8,"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **AUTO-C DT)",?66,$$UPPER^VALM1($$FMTE^XLFDT(DT)) W !,DASH,!**  **W !,"AUTO-C DATE",?14,"DEBTOR",?34,"BILL NO.",?47,"SSN",?53,"TRANS NUM",?64,"AUTO-C REASON"**  **W !,"------------",?14,"------------------",?34,"-----------",?47,"----",?53,"---------",?64,"--------------" Q**  **;**  **PSACRTP4 ; header for patient statement auto-correction report 4**  **W @IOF**  **S PAGE=PAGE+1**  **W "PAGE "\_PAGE,?8,"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY TRANS NUM)",?66,$$UPPER^VALM1($$FMTE^XLFDT(DT))**  **W !,DASH,!**  **W !,"TRANS NUM",?11,"DEBTOR",?31,"BILL NO.",?44,"SSN",?50,"AUTO-C DATE",?64,"AUTO-C REASON"**  **W !,"---------",?11,"------------------",?31,"-----------",?44,"----",?50,"------------",?64,"--------------"**  **Q**  **;**  **EXIT ; Q** | | |

**Table 15: Routines: PRCAACR1**

**Routines Activities**

**Routine Name** PRCAACR1

**Enhancement Category** New Modify Delete No Change

**RTM** ACR001 – ACR012

**Related Options** NA

**Related Routines Routines “Called By” Routines “Called”**

HOME^%ZIS

$$GET1^DIQ

PRCAACR

$$UPPER^VALM1

$$FMTE^XLFDT SENDMSG^XMXAPI

**Routines Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **PRCAACR1 ;ALBANY/BDB-PATIENT STATEMENTS AUTO-CORRECTION REPORT**  **;09/21/15 3:34 PM**  **;;4.5;Accounts Receivable;\*\*307\*\*;Mar 20, 1995;Build 55**  **;;Per VA Directive 6402, this routine should not be modified.**  **; Q**  **;Print Report when Queued to P-MES**  **PRT ; U IO**  **; build array of transaction auto-corrected**  **K ^TMP("PRCAACR1",$J) N DASH,PAGE**  **S PAGE=0**  **S DASH="",$P(DASH,"-",79)=""**  **N PRCATSRT,PRCATN,PRCAACD,PRCAACR,PRCABN,PRCADATA,PRCADTR,PRCASSN**  **,PRCAIEN**  **S PRCATSRT=PRCABDT-.00001,PRCAIEN=0**  **; Print Header**  **I PRCASORT=1 D PSACRTP1**  **I PRCASORT=2 D PSACRTP2**  **I PRCASORT=3 D PSACRTP3**  **I PRCASORT=4 D PSACRTP4**  **; Loop through the specified date range**  **F S PRCATSRT=$O(^PRCA(433,"TACD",PRCATSRT)) Q:PRCATSRT=""!(PRCATSRT>PRCAEDT) D** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.S PRCATN=""**  **.; Loop through the transactions for the current date**  **.F S PRCATN=$O(^PRCA(433,"TACD",PRCATSRT,PRCATN)) Q:'PRCATN D**  **..; Load associated data fields for report**  **..S PRCABN=$P(^PRCA(433,PRCATN,0),U,2)**  **..S PRCADTR=$$GET1^DIQ(430,PRCABN\_",",9) ; (#9) DEBTOR**  **..S PRCASSN=$G(^PRCA(430,PRCABN,0)) ; Load 0 Node**  **..S PRCASSN=$P(PRCASSN,U,9) ; get IEN of Debtor**  **..S PRCABN=$$GET1^DIQ(433,PRCATN\_",",.03) ; (#.03) BILL NUMBER**  **..S PRCASSN=$$GET1^DIQ(340,PRCASSN\_",",110) ; SSN**  **..S PRCASSN=$E(PRCASSN,6,9)**  **..S PRCAACD=$$GET1^DIQ(433,PRCATN\_",",94) ;(#94) AUTO-CORRECTION DATE**  **..S PRCAACR=$$GET1^DIQ(433,PRCATN\_",",96) ;(#96) AUTO-CORRECTION TYPE OF ERROR**  **..S PRCAACR=$E(PRCAACR,1,14)**  **..;**  **..; Store in ^TMP sorted by Bill Number, Debtor and Transaction #**  **..I PRCASORT=1 D Q**  **...S PRCAIEN=PRCAIEN+1**  **...; Add Bill Number**  **...S PRCADATA=$J(PRCABN,11),$E(PRCADATA,13)=" "**  **...; Add 18 chars of Debtor's name**  **...S PRCADATA=PRCADATA\_$E(PRCADTR,1,18),$E(PRCADATA,33)=" "**  **...; Add SSN**  **...S PRCADATA=PRCADATA\_PRCASSN,$E(PRCADATA,39)=" "**  **...; Add Transaction Number**  **...S PRCADATA=PRCADATA\_$J(PRCATN,9),$E(PRCADATA,50)=" "**  **...; Add Auto-Correct Date**  **...S PRCADATA=PRCADATA\_PRCAACD,$E(PRCADATA,64)=" "**  **...; Add Auto-Correct Reason**  **...S PRCADATA=PRCADATA\_PRCAACR**  **...S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **...Q**  **..;**  **..; Store in ^TMP sorted by Debtor, Bill Number and Transaction #**  **..I PRCASORT=2 D Q**  **...S PRCAIEN=PRCAIEN+1**  **...; Add 18 chars of Debtor's name**  **...S PRCADATA=$E(PRCADTR,1,18),$E(PRCADATA,20)=" "**  **...; Add Bill Number**  **...S PRCADATA=PRCADATA\_$J(PRCABN,11),$E(PRCADATA,33)=" "**  **...; Add SSN**  **...S PRCADATA=PRCADATA\_PRCASSN,$E(PRCADATA,39)=" "**  **...; Add Transaction Number**  **...S PRCADATA=PRCADATA\_$J(PRCATN,9),$E(PRCADATA,50)=" "**  **...; Add Auto-Correct Date**  **...S PRCADATA=PRCADATA\_PRCAACD,$E(PRCADATA,64)=" "** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **...; Add Auto-Correct Reason**  **...S PRCADATA=PRCADATA\_PRCAACR**  **...S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **...Q**  **..;**  **..; Store in ^TMP sorted by Auto-Correct Date, Debtor, Bill Number and Transaction #**  **..I PRCASORT=3 D Q**  **...S PRCAIEN=PRCAIEN+1**  **...; Add Auto-Correct Date**  **...S PRCADATA=PRCAACD,$E(PRCADATA,14)=" "**  **...; Add 18 chars of Debtor's name**  **...S PRCADATA=PRCADATA\_$E(PRCADTR,1,18),$E(PRCADATA,34)=" "**  **...; Add Bill Number**  **...S PRCADATA=PRCADATA\_$J(PRCABN,11),$E(PRCADATA,47)=" "**  **...; Add SSN**  **...S PRCADATA=PRCADATA\_PRCASSN,$E(PRCADATA,53)=" "**  **...; Add Transaction Number**  **...S PRCADATA=PRCADATA\_$J(PRCATN,9),$E(PRCADATA,64)=" "**  **...; Add Auto-Correct Reason**  **...S PRCADATA=PRCADATA\_PRCAACR**  **...S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **...Q**  **..;**  **..; Store in ^TMP sorted by Transaction, Debtor and #Bill Number**  **..I PRCASORT=4 D Q**  **...S PRCAIEN=PRCAIEN+1**  **...; Add Transaction Number**  **...S PRCADATA=$J(PRCATN,9),$E(PRCADATA,11)=" "**  **...; Add 18 chars of Debtor's name**  **...S PRCADATA=PRCADATA\_$E(PRCADTR,1,18),$E(PRCADATA,31)=" "**  **...; Add Bill Number**  **...S PRCADATA=PRCADATA\_$J(PRCABN,11),$E(PRCADATA,44)=" "**  **...; Add SSN**  **...S PRCADATA=PRCADATA\_PRCASSN,$E(PRCADATA,50)=" "**  **...; Add Auto-Correct Date**  **...S PRCADATA=PRCADATA\_PRCAACD,$E(PRCADATA,64)=" "**  **...; Add Auto-Correct Reason**  **...S PRCADATA=PRCADATA\_PRCAACR**  **...S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **...Q**  **;**  **; Send MailMan message with No Forward**  **N XMTO,XMSUBJ,XMBODY,XMINSTR,XMDUZ S XMTO(DUZ)=""**  **S XMSUBJ="BILLS THAT HAVE BEEN AUTO-CORRECTED" S XMBODY="^TMP(""PRCAACR1"",$J)"**  **S XMINSTR("FLAGS")="X"** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **S XMDUZ=DUZ**  **D SENDMSG^XMXAPI(XMDUZ,XMSUBJ,XMBODY,.XMTO,.XMINSTR) D HOME^%ZIS**  **K IO("Q"),POP**  **K ^TMP("PRCAACR1",$J)**  **K PRCABDT,PRCAEDT,PRCASORT Q**  **;**  **PSACRTP1 ; header for patient statement auto-correction report 1**  **S PAGE=PAGE+1**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="PAGE "\_PAGE,$E(PRCADATA,8)=""**  **S PRCADATA=PRCADATA\_"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY BILL #)"**  **S $E(PRCADATA,66)="",PRCADATA=PRCADATA\_$$UPPER^VALM1($$FMTE^XLFDT(DT**  **))**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=DASH**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="BILL NO. DEBTOR SSN TRANS NUM AUTO-C DATE AUTO-C REASON" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **S PRCADATA="----------- ------------------ ---- --------- ------------ --------------" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **Q**  **;**  **PSACRTP2 ; header for patient statement auto-correction report 2**  **S PAGE=PAGE+1**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="PAGE "\_PAGE,$E(PRCADATA,8)=""**  **S PRCADATA=PRCADATA\_"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY DEBTOR)"**  **S $E(PRCADATA,66)="",PRCADATA=PRCADATA\_$$UPPER^VALM1($$FMTE^XLFDT(DT**  **))**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=DASH**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="DEBTOR BILL NO. SSN TRANS NUM AUTO-C DATE AUTO-C REASON"** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **S PRCADATA="------------------ ----------- ---- --------- ------------ --------------" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA Q**  **;**  **PSACRTP3 ; header for patient statement auto-correction report 3**  **W @IOF**  **S PAGE=PAGE+1**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="PAGE "\_PAGE,$E(PRCADATA,8)=""**  **S PRCADATA=PRCADATA\_"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY AUTO-C DT)"**  **S $E(PRCADATA,66)="",PRCADATA=PRCADATA\_$$UPPER^VALM1($$FMTE^XLFDT(DT**  **))**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=DASH**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="AUTO-C DATE DEBTOR BILL NO. SSN TRANS NUM AUTO-C REASON" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **S PRCADATA="------------ ------------------ ----------- ---- --------- --------------" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **Q**  **;**  **PSACRTP4 ; header for patient statement auto-correction report 4**  **W @IOF**  **S PAGE=PAGE+1**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""**  **S PRCADATA="PAGE "\_PAGE,$E(PRCADATA,8)=""**  **S PRCADATA=PRCADATA\_"BILLS THAT HAVE BEEN AUTO-CORRECTED (SORTED BY TRANS NUM)"**  **S $E(PRCADATA,66)="",PRCADATA=PRCADATA\_$$UPPER^VALM1($$FMTE^XLFDT(DT**  **))**  **S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=DASH S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=""** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **S PRCADATA="TRANS NUM DEBTOR BILL NO. SSN AUTO-C DATE AUTO-C REASON" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **S PRCADATA="--------- ------------------ ----------- ---- ------------ --------------" S PRCAIEN=PRCAIEN+1**  **S ^TMP("PRCAACR1",$J,PRCAIEN)=PRCADATA**  **Q**  **;**  **EXIT ; Q** | | |

**Table 16: Routines: PRCA307P Routines Activities**

**Routine Name** PRCA307P

**Enhancement Category** New Modify Delete No Change

**RTM** ACJ005

**Related Options** N/A

**Related Routines Routines “Called By” Routines “Called”**

^%ZTLOAD

$$SITE^RCMSITE

N/A

BMES^XPDUTL MES^XPDUTL

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **PRCA307P ;ALB/BDB - PATCH PRCA\*4.5\*307 POST-INSTALL ROUTINE ; 11/2/15 4:15pm**  **;;4.5;Accounts Receivable;\*\*307\*\*;Mar 20, 1995;Build 55**  **;;Per VA Directive 6402, this routine should not be modified.**  **; This routine will update a specific list of Station ID's**  **; and queues the Patient Statement Auto-Correction Program**  **; Q**  **EN ;Entry point for PRCA\*4.5\*307 post-install**  **N SDAY,SITE,T**  **S SITE=$$SITE^RCMSITE I SITE=0 D**  **.D MES^XPDUTL(" ")**  **.D BMES^XPDUTL(">>> WARNING! STATION ID NOT FOUND!")**  **.D MES^XPDUTL(">>> THE PATIENT STATEMENT TRANSMISSION DATE WILL NOT BE UPDATED")**  **.D MES^XPDUTL(" ")**  **I SITE'=0,$T(@SITE) D**  **.D MES^XPDUTL(" ")**  **.D BMES^XPDUTL(">>> STATION ID "\_SITE\_" MATCH FOUND!")**  **.D MES^XPDUTL(">>> THE PATIENT STATEMENT TRANSMISSION DATE WILL BE UPDATED")**  **.D MES^XPDUTL(" ")**  **.;set patient statement day to site statement day**  **.S T=$T(@SITE),SDAY=+$P(T,";;",2)**  **.S $P(^RC(342,1,0),"^",11)=SDAY**  **.S DEB=0 F S DEB=$O(^RCD(340,"AB","DPT(",DEB)) Q:'DEB I $D(^RCD(340,+DEB,0)) D**  **..S STDT=$P($G(^RCD(340,+DEB,0)),"^",3) Q:'STDT**  **..S SSTDT=$P($G(^RC(342,1,0)),"^",11)**  **..Q:(SSTDT=STDT)**  **..K ^RCD(340,"AC",STDT,+DEB)**  **..S $P(^RCD(340,+DEB,0),"^",3)=SSTDT**  **..S ^RCD(340,"AC",SSTDT,DEB)="" K SDAY,SITE,DEB,STDT,SSTDT,T**  **;**  **N ZTDTH,ZTIO,ZTDESC,ZTRTN,ZTSK**  **S ZTDESC="Auto-Correct Patient Statement Discrepancies" S ZTRTN="START^PRCACPS",ZTDTH=$H,ZTIO=""** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **D ^%ZTLOAD**  **I $G(ZTSK) D Q**  **.D BMES^XPDUTL(">>>POST-INSTALL CONSOLIDATED PATIENT STATEMENT AUTO- CORRECTION")**  **.D MES^XPDUTL(">>>PROGRAM HAS BEEN QUEUED IN TASK "\_ZTSK) I '$G(ZTSK) D Q**  **.D BMES^XPDUTL(">>>ERROR: POST-INSTALL CONSOLIDATED PATIENT STATEMENT**  **AUTO-CORRECTION")**  **.D MES^XPDUTL(">>>PROGRAM COULD NOT BE QUEUED")**  **;**  **;Stations that will have monthly statement build date changed**  **438 ;;21^SIOUX FALLS,SD**  **501 ;;21^ALBUQUERQUE,NM**  **504 ;;21^AMARILLO,TX**  **542 ;;21^COATESVILLE,PA**  **562 ;;21^ERIE,PA**  **568 ;;21^FORT MEADE,SD**  **649 ;;21^PRESCOTT,AZ**  **656 ;;21^ST. CLOUD,MN**  **688 ;;21^WASHINGTON,DC**  **756 ;;21^EL PASO,TX**  **565 ;;22^FAYETTEVILLE,NC**  **621 ;;22^MOUNTAIN HOME,TN**  **658 ;;22^SALEM,VA**  **664 ;;22^SAN DIEGO,CA**  **671 ;;22^SAN ANTONIO,TX**  **689 ;;22^WEST HAVEN,CT**  **740 ;;22^TEXAS VALLEY COASTAL,TX** | | |

**Table 17: Routines: PRCASER1**

**Routines Activities**

**Routine Name** PRCASER1

**Enhancement Category** New Modify Delete No Change

**RTM** US005

**Related Options** PRCAX CO-PAY EXEMPTION REPORT

**Related Routines Routines “Called By” Routines “Called”**

PRCAX, RCKATP, RCKATPD

XMD, PRCASER1, FY^RCFN01,

$$NAM^RCFN01, $$SSN^RCFN01,

$$FY^RCFN01,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | ACCOUNTS RECEIVABLE File (#430) AR TRANSACTION File (#433)  ACCOUNTS RECEIVABLE TRANS.TYPE(#430.3) NEW PERSON(#200) | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |
|  | **Current Logic** | | | |  |
| PRCASER1 ;WASH-ISC@ALTOONA,PA/RGY-Accept transaction from billing engine ;9/8/93  2:21 PM  V ;;4.5;Accounts Receivable;\*\*48,104,165,233\*\*;Mar 20, 1995;Build 4  ;;Per VHA Directive 10-93-142, this routine should not be modified. NEW  AMT,AMT1,PRCAERR,PRCABN,PRCADJ,X1,XMDUZ,XMSUB,XMTEXT,XMY,DEBT  I '$D(X) S PRCAERR="-1^PRCA020" G Q  I $O(^PRCA(430.3,"AC",+X,0))'?1N.N,$P($G(^PRCA(430.3,+X,0)),"^",3)'=21  S PRCAERR="-1^PRCA021" G Q  I +X'=21,$P($G(^PRCA(430.3,+X,0)),"^",3)'=21 S PRCAERR="-1^PRCA022" G Q I $P(X,"^",2)'?.N.1".".2N S PRCAERR="-1^PRCA023" G Q  I $P(X,"^",2)'>0 S PRCAERR="-1^PRCA017" G Q I $P(X,"^",3)="" S PRCAERR="-1^PRCA006" G Q  S PRCABN=$O(^PRCA(430,"B",$P(X,"^",3),0)) I $G(^PRCA(430,+PRCABN,0))="" S PRCAERR="-1^PRCA007" G Q  I '$D(^VA(200,+$P(X,"^",4),0)) S PRCAERR="-1^PRCA013" G Q  I $P(X,"^",5)'?7N S PRCAERR="-1^PRCA024" G Q S (AMT1,AMT)=$P(X,"^",2)  D DEC(PRCABN,.AMT,$P(X,"^",4),$P(X,U,6),$P(X,U,5))  S XMDUZ="AR Package",XMTEXT="X1(",DEBT=$P($G(^PRCA(430,PRCABN,0)),"^",9  ),DEBT=$E($$NAM^RCFN01(DEBT),1)\_" ("\_$E($$SSN^RCFN01(DEBT),6,9)\_")"  I AMT'=AMT1 S X1(1)="A decrease adjustment for bill/Pt name (SSN) #"\_$P (X,"^",3)\_"/"\_DEBT\_" has been",XMSUB="Automatic Adj: "\_$P(X,"^",3)  I AMT=AMT1 S X1(1)="\*\*\*\* NOTICE: A decrease adjustment for bill/Pt name  (SSN) #"\_$P(X,U,3)\_"/"\_DEBT,XMSUB="Manual Adj: "\_$P(X,U,3),X1(3)=" "  S Y=DT X ^DD("DD") S X1(2)=$S(AMT'=AMT1:"automatically",1:"needs to be manually")\_" applied in the amount of $"\_$J($S(AMT1=AMT:AMT1,1:AMT1-AMT),0,2)\_"  on "\_Y\_"." | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| I AMT,AMT'=AMT1 S X1(3)="Please review bill for proper application of t he unapplied amount of $"\_$J(AMT,0,2)\_"."  S X1(4)=" ",X1(5)="Data sent from Service" S X1(6)=" Amount: $"\_$J(AMT1,0,2)  S Y=$P(X,U,5) X ^DD("DD") S X1(7)=" Date: "\_Y  S X1(8)=" Reason: "\_$S($P(X,"^",6)]"":$P(X,"^",6),1:"N/A")  S X1(9)=" Adjustment by: "\_$P($G(^VA(200,+$P(X,"^",4),0)),"^")  S AMT=0 F X=1:1:5 S AMT=AMT+$P($G(^PRCA(430,PRCABN,7)),U,X) S AMT1=AMT-+$G(^PRCA(430,PRCABN,7))  S X=$P(^PRCA(430.3,+$P($G(^PRCA(430,PRCABN,0)),U,8),0),U,1)  S X1(10)=" ",X1(12)=" ",X1(13)="Bill status is "\_$S(XMSUB["Auto":"now "  ,1:"")\_X\_" with a balance of $"\_$J(AMT,0,2)\_".",X1(14)=" "  I AMT1>0 S X1(15)=" \*WARNING\* There is outstanding administrative char ges of $"\_$J(AMT1,0,2)\_".",X1(16)=" An adjustment of administrative c harges MAY need to be done."  S XMY("G.PRCA ADJUSTMENT TRANS")="" D ^XMD  Q S Y=$S($D(PRCAERR):PRCAERR,1:0) Q TEST ;  S X="21^22^503-AA0007^5^2921206^RX RETURNED IN MAIL" D ^PRCASER1 W !,Y,  !  Q  DEC(PRCABN,AMT,APR,REA,BDT,PRCAEN) ;Auto decrease from service Bill#,Tran amt,pe rson,reason,Tran date  NEW BAL,DA,DIC,DIE,DR,ERR,PRCA,PRCAA2,PRCAMT,PRCASV,X,Y S PRCAEN="",BAL=+$G(^PRCA(430,PRCABN,7)) I 'BAL Q  I $P(^PRCA(430,PRCABN,0),U,8)'=$O(^PRCA(430.3,"AC",102,"")),$P(^PRCA(43  0,PRCABN,0),U,8)'=$O(^PRCA(430.3,"AC",112,"")) Q  I $P(^PRCA(430,PRCABN,0),U,2)=$O(^PRCA(430.2,"AC",33,0)) Q S BAL=$S(AMT>BAL:BAL,1:AMT)  S PRCA("ADJ")=$O(^PRCA(430.3,"AC",21,0)),PRCASV("FY")=$$FY^RCFN01(DT)\_U  \_BAL,PRCASV("APR")=APR,PRCASV("BDT")=$S($G(BDT)>0:BDT,1:DT)  D SETTR^PRCAUTL,PATTR^PRCAUTL S DIE="^PRCA(433,",DR="[PRCA FY ADJ2  BATC  H]",DA=PRCAEN D ^DIE S PRCAA2=$P(^PRCA(433,PRCAEN,4,0),U,3) D UPFY^PRCADJ,TRANUP  ^PRCAUTL  I ("^30^31^")[("^"\_$P($G(^PRCA(430,PRCABN,0)),"^",2)\_"^") D EN^PRCAFBDM (PRCABN,BAL,PRCA("ADJ"),$G(PRCADJ("BDT")),PRCAEN,.ERR)  D UPPRIN^PRCADJ  I "AutoAUTO"'[$E(REA,1,4) S REA="Auto Dec.: "\_REA  S DA=PRCAEN,DIE="^PRCA(433,",DR="41///"\_REA D ^DIE S AMT=AMT-+$P($G(^PRCA(433,PRCAEN,1)),U,5)  Q | | | | | |

**Modified Logic (Changes are in bold)**

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| PRCASER1 ;WASH-ISC@ALTOONA,PA/RGY-Accept transaction from billing engine ;9/8/93  2:21 PM  V ;;4.5;Accounts Receivable;\*\*48,104,165,233**,301,307**\*\*;Mar 20, 1995;Build 55  ;;Per VA Directive 6402, this routine should not be modified.  NEW AMT,AMT1,PRCAERR,PRCABN,PRCADJ,X1,XMDUZ,XMSUB,XMTEXT,XMY,DEBT I '$D(X) S PRCAERR="-1^PRCA020" G Q  I $O(^PRCA(430.3,"AC",+X,0))'?1N.N,$P($G(^PRCA(430.3,+X,0)),"^",3)'=21 S PRCAERR="-  1^PRCA021" G Q  I +X'=21,$P($G(^PRCA(430.3,+X,0)),"^",3)'=21 S PRCAERR="-1^PRCA022" G Q I $P(X,"^",2)'?.N.1".".2N S PRCAERR="-1^PRCA023" G Q  I $P(X,"^",2)'>0 S PRCAERR="-1^PRCA017" G Q  I $P(X,"^",3)="" S PRCAERR="-1^PRCA006" G Q S PRCABN=$O(^PRCA(430,"B",$P(X,"^",3),0))  I $G(^PRCA(430,+PRCABN,0))="" S PRCAERR="-1^PRCA007" G Q  I '$D(^VA(200,+$P(X,"^",4),0)) S PRCAERR="-1^PRCA013" G Q I $P(X,"^",5)'?7N S PRCAERR="-1^PRCA024" G Q  S (AMT1,AMT)=$P(X,"^",2)  D DEC(PRCABN,.AMT,$P(X,"^",4),$P(X,U,6),$P(X,U,5)) S XMDUZ="AR Package",XMTEXT="X1(",DEBT=$P($G(^PRCA(430,PRCABN,0)),"^",9),DEBT=$E($$NAM^RC FN01(DEBT),1)\_" ("\_$E($$SSN^RCFN01(DEBT),6,9)\_")"  I AMT'=AMT1 S X1(1)="A decrease adjustment for bill/Pt name (SSN)  #"\_$P(X,"^",3)\_"/"\_DEBT\_" has been",XMSUB="Automatic Adj: "\_$P(X,"^",3)  I AMT=AMT1 S X1(1)="\*\*\*\* NOTICE: A decrease adjustment for bill/Pt name (SSN)  #"\_$P(X,U,3)\_"/"\_DEBT,XMSUB="Manual Adj: "\_$P(X,U,3),X1(3)=" "  S Y=DT X ^DD("DD") S X1(2)=$S(AMT'=AMT1:"automatically",1:"needs to be manually")\_" applied in the amount of $"\_$J($S(AMT1=AMT:AMT1,1:AMT1-AMT),0,2)\_" on "\_Y\_"."  I AMT,AMT'=AMT1 S X1(3)="Please review bill for proper application of the unapplied amount  of $"\_$J(AMT,0,2)\_"."  S X1(4)=" ",X1(5)="Data sent from Service" S X1(6)=" Amount: $"\_$J(AMT1,0,2)  S Y=$P(X,U,5) X ^DD("DD") S X1(7)=" Date: "\_Y  S X1(8)=" Reason: "\_$S($P(X,"^",6)]"":$P(X,"^",6),1:"N/A")  S X1(9)=" Adjustment by: "\_$P($G(^VA(200,+$P(X,"^",4),0)),"^")  S AMT=0 F X=1:1:5 S AMT=AMT+$P($G(^PRCA(430,PRCABN,7)),U,X) S AMT1=AMT-+$G(^PRCA(430,PRCABN,7))  S X=$P(^PRCA(430.3,+$P($G(^PRCA(430,PRCABN,0)),U,8),0),U,1)  S X1(10)=" ",X1(12)=" ",X1(13)="Bill status is "\_$S(XMSUB["Auto":"now ",1:"")\_X\_" with a balance of $"\_$J(AMT,0,2)\_".",X1(14)=" "  I AMT1>0 S X1(15)=" \*WARNING\* There is outstanding administrative charges of  $"\_$J(AMT1,0,2)\_".",X1(16)=" An adjustment of administrative charges MAY need to be done." S XMY("G.PRCA ADJUSTMENT TRANS")=""  D ^XMD  Q S Y=$S($D(PRCAERR):PRCAERR,1:0) Q TEST ;  S X="21^22^503-AA0007^5^2921206^RX RETURNED IN MAIL" D ^PRCASER1 W !,Y,!  Q | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| DEC(PRCABN,AMT,APR,REA,BDT,PRCAEN) ;Auto decrease from service Bill#,Tran amt,person,reason,Tran date  NEW BAL,DA,DIC,DIE,DR,ERR,PRCA,PRCAA2,PRCAMT,PRCASV,X,Y**,PRCADUP ; PRCA\*4.5\*307 - New PRCADUP then initialize next line**  **S PRCADUP=0**  **; PRCA\*4.5\*307 - If reason is TIER RATE check for duplicate**  **I REA["TIER RATE" D DUPCHK**  S PRCAEN="",BAL=+$G(^PRCA(430,PRCABN,7)) I 'BAL Q  I $P(^PRCA(430,PRCABN,0),U,8)'=$O(^PRCA(430.3,"AC",102,"")),$P(^PRCA(430,PRCABN,0  ),U,8)'=$O(^PRCA(430.3,"AC",112,"")) Q  I $P(^PRCA(430,PRCABN,0),U,2)=$O(^PRCA(430.2,"AC",33,0)) Q S BAL=$S(AMT>BAL:BAL,1:AMT)  S PRCA("ADJ")=$O(^PRCA(430.3,"AC",21,0)),PRCASV("FY")=$$FY^RCFN01(DT)\_U\_BAL,P RCASV("APR")=APR,PRCASV("BDT")=$S($G(BDT)>0:BDT,1:DT)  D SETTR^PRCAUTL,PATTR^PRCAUTL S DIE="^PRCA(433,",DR="[PRCA FY ADJ2  BATCH]",DA=PRCAEN D ^DIE S PRCAA2=$P(^PRCA(433,PRCAEN,4,0),U,3) D UPFY^PRCADJ,TRANUP^PRCAUTL  I ("^30^31^")[("^"\_$P($G(^PRCA(430,PRCABN,0)),"^",2)\_"^")  D EN^PRCAFBDM(PRCABN,BAL,PRCA("ADJ"),$G(PRCADJ("BDT")),PRCAEN,.ERR) D UPPRIN^PRCADJ  I "AutoAUTO"'[$E(REA,1,4) S REA="Auto Dec.: "\_REA  S DA=PRCAEN,DIE="^PRCA(433,",DR="41///"\_REA D ^DIE  **; PRCA\*4.5\*307 - Mark Incomplete Transaction if duplicate, blocking from Patient**  **Statement**  **I PRCADUP S DR="10////1" D ^DIE**  S AMT=AMT-+$P($G(^PRCA(433,PRCAEN,1)),U,5)  **I PRCAEN,$D(^PRCA(430,"TCSP",PRCABN)) D DECADJ^RCTCSPU(PRCABN,PRCAEN)**  **;prca\*4.5\*301 add cs decrease adjustment 5B**  Q  **;**  **DUPCHK ;PRCA\*4.5\*307 - Check for duplicate (lower/higher) set PRCADUP if true**  **N PRCATX,PRCAII,PRCATRN**  **S PRCATX=$P(^PRCA(433,0),U,3)**  **F PRCAII=PRCATX-20:1:PRCATX D Q:PRCADUP**  **. S PRCATRN=$G(^PRCA(433,PRCAII,1)) I $P(PRCATRN,U,5)'=AMT Q**  **. I $P($G(^PRCA(433,PRCAII,0)),U,2)'=PRCABN Q**  **. I $P($G(^PRCA(433,PRCAII,0)),U,9)'=APR Q**  **. I $P(PRCATRN,U)'=BDT Q**  **. S PRCADUP=PRCAII Q** | | |

**Table 18: Routines: RCCPCBJ**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Routine Name** | | | RCCPCBJ | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Routine Name** | | | RCCPCBJ | | |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **RTM** | | | ACJ002 | | |
| **Related Options** | | |  | | |

**Related Routines Routines “Called By” Routines “Called”**

^%DTC C^%DTC

^%ZTLOAD

^DIE

$$EN^PRCARFU FIRSTPTY^RCBECHGS

$$STD^RCCPCFN

$$STDY^RCCPCFN EN^RCCPCML

^RCCPCPS

TRANCHK^RCCPCSV1

^RCEXINAD

$$DOW^XLFDT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | |  | | |
| **Related Protocols** | | |  | | |
| **Related Integration Control Registrations (ICRs)** | | |  | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: Definition: | | |
| **Output Attribute Name and Definition** | | | Name: Definition: | | |

**Current Logic**

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| DEVISC1A1:PATVEE>ZL RCCPCBJ ZP  RCCPCBJ ;WASH-ISC@ALTOONA,PA/NYB-Background Driver for CCPC ;1/7/97 9:42 AM  ;;4.5;Accounts Receivable;\*\*34,76,130,153,166,195,217,237\*\*;Mar 20, 1995  ;;Per VHA Directive 10-93-142, this routine should not be modified. EN ;Starts the background job for CCPC 5 days before statement day  N X,X1,X2,X3,ZTRTN,ZTIO,ZTDTH,ZTSK,ZTDESC  D ACK  S X1=$$STD^RCCPCFN,X2=-2 D C^%DTC  ;10-process end time/18-ccpc file built  I X=DT D Q  . S X3=$O(^RCPS(349.2,0)) Q:'X3  . Q:'$P($P($G(^RCPS(349.2,X3,0)),"^",10),".")  . Q:'$P($G(^RCPS(349.2,X3,0)),"^",18)  . D EN^RCCPCML  ;quit if date created is yesterday's date  S X1=$$STD^RCCPCFN,X2=-1 D C^%DTC I X=DT D Q  . S X3=+$O(^RCT(349,0))  . S X3=$P($P($G(^RCT(349,X3,0)),"^",11),".")  . S X1=DT,X2=-1 D C^%DTC  . I X=X3 Q  . D EN^RCCPCML  ;  S X1=$$STD^RCCPCFN,X2=-3 D C^%DTC I X'=DT Q  I DT'<$P($G(^RC(342,1,30)),"^",1)&(DT'>$P($G(^RC(342,1,30)),"^",2)) D ^RCEXINAD  S ZTIO="",ZTRTN="OPEN^RCCPCBJ",ZTDESC="CCPC PATIENT STATEMENT" S ZTDTH=$H D ^%ZTLOAD  Q  OPEN ;Update Open status bills to Active or Cancellation status  N DAY,BN,DEBTOR,DA,DIE,DR,P,AMT  N ZTSAVE,ZTRTN,ZTDESC,ZTASK,%ZIS,ZTDTH  S DATE=$$STD^RCCPCFN,DAY=+$$STDY^RCCPCFN,DEBTOR=0 F S DEBTOR=$O(^RCD(340,"AC",DAY,DEBTOR)) Q:'DEBTOR D  .S BN=0 F S BN=$O(^PRCA(430,"AS",DEBTOR,$O(^PRCA(430.3,"AC",112,0)),BN)) Q:'BN D  ..S AMT=0 F P=1:1:5 S AMT=$P($G(^PRCA(430,+BN,7)),"^",P)+AMT  ..I $P($G(^PRCA(430,+BN,0)),"^",2)=$O(^PRCA(430.2,"AC",33,0)),AMT Q  ..S DIE="^PRCA(430,",DA=+BN,DR="8////^S | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| X="\_$S(AMT:$O(^PRCA(430.3,"AC",102,0)),1:$O(^PRCA(430.3,"AC",111,0))) D ^DIER  ..Q  .Q  ;  ; update patient accounts with interest and admin  N RCLASDAT  S RCLASDAT=DATE  I DT>3010101 D FIRSTPTY^RCBECHGS D ^RCCPCPS  D REFUND Q  ;  ;  REFUND ;Update Open status PREPAYMENT bills to REFUND REVIEW S DEBTOR=0,DAY=+$$STDY^RCCPCFN  F S DEBTOR=$O(^RCD(340,"AC",DAY,DEBTOR)) Q:'DEBTOR D  .S BN=0 F S BN=$O(^PRCA(430,"AS",DEBTOR,$O(^PRCA(430.3,"AC",112,0)),BN)) Q:'BN D  ..I $P($G(^PRCA(430,+BN,0)),"^",2)=$O(^PRCA(430.2,"AC",33,0)) S X=$$EN^PRCARFU(+BN)  ..Q  .Q Q  ;  ACK ;CHECK FOR ACKNOWLEDGEMENTS N DEB,MSG,NO,RCX,X,X1,X2  S X1=$$STD^RCCPCFN,X2=DT D ^%DTC I X>3 D  .D TRANCHK^RCCPCSV1  Q | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| RCCPCBJ ;WASH-ISC@ALTOONA,PA/NYB-Background Driver for CCPC ;1/7/97 9:42 AM  ;;4.5;Accounts Receivable;\*\*34,76,130,153,166,195,217,237**,307**\*\*;Mar 20, 1995;Build 55  ;;Per VHA Directive 10-93-142, this routine should not be modified. EN ;Starts the background job for CCPC 5 days before statement day N X,X1,X2,X3,ZTRTN,ZTIO,ZTDTH,ZTSK,ZTDESC  D ACK  **I $$DOW^XLFDT(DT,1)=3 D ;run the cbs auto-correction program on wednesdays**  **.N ZTDESC,ZTASK,ZTDTH,ZTIO,ZTRTN**  **.S ZTIO="",ZTRTN="START^PRCACPS"** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **.S ZTDESC="PATIENT STATEMENTS AUTO-CORRECTION PROGRAM",ZTDTH=$H**  **.D ^%ZTLOAD**  **;**  S X1=$$STD^RCCPCFN,X2=-2 D C^%DTC  ;10-process end time/18-ccpc file built  I X=DT D Q  . S X3=$O(^RCPS(349.2,0)) Q:'X3  . Q:'$P($P($G(^RCPS(349.2,X3,0)),"^",10),".")  . Q:'$P($G(^RCPS(349.2,X3,0)),"^",18)  . D EN^RCCPCML  ;quit if date created is yesterday's date  S X1=$$STD^RCCPCFN,X2=-1 D C^%DTC I X=DT D Q  . S X3=+$O(^RCT(349,0))  . S X3=$P($P($G(^RCT(349,X3,0)),"^",11),".")  . S X1=DT,X2=-1 D C^%DTC  . I X=X3 Q  . D EN^RCCPCML  ;  S X1=$$STD^RCCPCFN,X2=-3 D C^%DTC I X'=DT Q  I DT'<$P($G(^RC(342,1,30)),"^",1)&(DT'>$P($G(^RC(342,1,30)),"^",2)) D ^RCEXINAD  S ZTIO="",ZTRTN="OPEN^RCCPCBJ",ZTDESC="CCPC PATIENT STATEMENT" S ZTDTH=$H D ^%ZTLOAD  Q  OPEN ;Update Open status bills to Active or Cancellation status  N **DATE,**DAY,BN,DEBTOR,DA,DIE,DR,P,AMT  N ZTSAVE,ZTRTN,ZTDESC,ZTASK,%ZIS,ZTDTH  S DATE=$$STD^RCCPCFN,DAY=+$$STDY^RCCPCFN,DEBTOR=0  F S DEBTOR=$O(^RCD(340,"AC",DAY,DEBTOR)) Q:'DEBTOR D  .S BN=0 F S BN=$O(^PRCA(430,"AS",DEBTOR,$O(^PRCA(430.3,"AC",112,0)),BN)) Q:'BN D  ..S AMT=0 F P=1:1:5 S AMT=$P($G(^PRCA(430,+BN,7)),"^",P)+AMT  ..I $P($G(^PRCA(430,+BN,0)),"^",2)=$O(^PRCA(430.2,"AC",33,0)),AMT Q  ..S DIE="^PRCA(430,",DA=+BN,DR="8////^S X="\_$S(AMT:$O(^PRCA(430.3,"AC",102,0)),1:$O(^PRCA(430.3,"AC",111,0))) D ^DIE K DA,DIE,DR  ..Q  .Q  ;  ; update patient accounts with interest and admin  N RCLASDAT  S RCLASDAT=DATE  I DT>3010101 D FIRSTPTY^RCBECHGS D ^RCCPCPS  D REFUND  Q | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;  ;  REFUND ;Update Open status PREPAYMENT bills to REFUND REVIEW S DEBTOR=0,DAY=+$$STDY^RCCPCFN  F S DEBTOR=$O(^RCD(340,"AC",DAY,DEBTOR)) Q:'DEBTOR D  .S BN=0 F S BN=$O(^PRCA(430,"AS",DEBTOR,$O(^PRCA(430.3,"AC",112,0)),BN)) Q:'BN D  ..I $P($G(^PRCA(430,+BN,0)),"^",2)=$O(^PRCA(430.2,"AC",33,0)) S X=$$EN^PRCARFU(+BN)  ..Q  .Q Q  ;  ACK ;CHECK FOR ACKNOWLEDGEMENTS N DEB,MSG,NO,RCX,X,X1,X2  S X1=$$STD^RCCPCFN,X2=DT D ^%DTC I X>3 D  .D TRANCHK^RCCPCSV1  Q | | |

**Table 19: Routines: RCDPBTLM Routines Activities**

**Routine Name** RCDPBTLM

**Enhancement Category** New Modify Delete No Change

**RTM** ??? - nothing

**Related Options** Decrease Adjustment, Increase Adjustment

**Related Routines Routines “Called By” Routines “Called”**

^DIC

^DIR

$$REC^IBRFN

$$COMP3^PRCAAPR

$$IBEEOBCK^PRCAAPR1

RCBEADJ

SET^RCDPAPLI

$$ACCNTHDR^RCDPAPLM DIQ430^RCDPBPLM

$$TRANBAL^RCRJRCOT EN^VALM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| RCDPBTLM ;WISC/RFJ - bill transactions List Manager top routine ;1 Jun 99  ;;4.5;Accounts Receivable;\*\*114,148,153,168,169,198,247,271,276\*\*;Mar 20, 1995;Build  87  ;;Per VHA Directive 2004-038, this routine should not be modified.  ;  ; Reference to $$REC^IBRFN supported by DBIA 2031  ;  ; called from menu option (19)  ;  N RCBILLDA,RCDPFXIT  ;  F D Q:'RCBILLDA  . W !! S RCBILLDA=$$SELBILL  . I RCBILLDA<1 S RCBILLDA=0 Q  . D EN^VALM("RCDP TRANSACTIONS LIST")  . ; fast exit  . I $G(RCDPFXIT) S RCBILLDA=0  Q  ;  ;  INIT ; initialization for list manager list  ; requires rcbillda  N ADMIN,DATE,RCLINE,RCLIST,RCTOTAL,RCTRAN,RCTRANDA K ^TMP("RCDPBTLM",$J),^TMP("VALM VIDEO",$J)  ;  ; fast exit  I $G(RCDPFXIT) S VALMQUIT=1 Q  ;  ; set the List Manager line number | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| S RCLINE=0  ; set the List Manager transaction number  S RCTRAN=0  ;  ; get transactions and balance for bill  S RCTOTAL=$$GETTRANS(RCBILLDA)  ;  S DATE="" F S DATE=$O(RCLIST(DATE)) Q:'DATE D  . S RCTRANDA="" F S RCTRANDA=$O(RCLIST(DATE,RCTRANDA)) Q:RCTRANDA="" D  . . S RCLINE=RCLINE+1  . . ;  . . ; create an index array for transaction lookup in list  . . I RCTRANDA D  . . . S RCTRAN=RCTRAN+1  . . . S ^TMP("RCDPBTLM",$J,"IDX",RCTRAN,RCTRAN)=RCTRANDA  . . . D SET^RCDPAPLI(RCTRAN,RCLINE,1,80,0,IORVON,IORVOFF)  . . ;  . . D SET^RCDPAPLI($S(RCTRANDA:RCTRANDA,1:" "),RCLINE,4,80)  . . D SET^RCDPAPLI($E(DATE,4,5)\_"/"\_$E(DATE,6,7)\_"/"\_$E(DATE,2,3),RCLINE,13,21)  . . D  SET^RCDPAPLI($TR($P(RCLIST(DATE,RCTRANDA),"^"),"ABCDEFGHIJKLMNOPQRSTUVW XYZ","abcdefghijklmnopqrstuvwxyz"),RCLINE)  . . D SET^RCDPAPLI($J($P(RCLIST(DATE,RCTRANDA),"^",2),9,2),RCLINE,53,62)  . . D SET^RCDPAPLI($J($P(RCLIST(DATE,RCTRANDA),"^",3),9,2),RCLINE,62,71)  . . ; add marshal fee and court cost to create admin dollars  . . S ADMIN=$P(RCLIST(DATE,RCTRANDA),"^",4)+$P(RCLIST(DATE,RCTRANDA),"^",5)+$P(RCL  IST(DATE,RCTRANDA),"^",6)  . . D SET^RCDPAPLI($J(ADMIN,9,2),RCLINE,71,80)  ;  ; show totals  S RCLINE=RCLINE+1  D SET^RCDPAPLI(" --------- -------- --------",RCLINE,1,80) S RCLINE=RCLINE+1  D SET^RCDPAPLI(" TOTAL BALANCE FOR BILL",RCLINE,1,80) D SET^RCDPAPLI($J($P(RCTOTAL,"^",1),9,2),RCLINE,53,62)  D SET^RCDPAPLI($J($P(RCTOTAL,"^",2),9,2),RCLINE,62,71)  D SET^RCDPAPLI($J($P(RCTOTAL,"^",3)+$P(RCTOTAL,"^",4)+$P(RCTOTAL,"^",5),9,2),RCLIN E,71,80)  ;  ; compare totals to what is stored in the file  N RCDATA7,RCFOUT  S RCDATA7=$G(^PRCA(430,RCBILLDA,7))  ; for a write-off bill, the balance should equal all zeros, for | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| ; these bills, node 7 is the write-off amount, so for the out of  ; balance check to work, node 7 needs to be adjusted to all zeros  I $P(^PRCA(430,RCBILLDA,0),"^",8)=23 S RCDATA7="0^0^0^0^0" I +$P(RCDATA7,"^",1)'=+$P(RCTOTAL,"^",1) S RCFOUT=1  I +$P(RCDATA7,"^",2)'=+$P(RCTOTAL,"^",2) S RCFOUT=1  I ($P(RCDATA7,"^",3)+$P(RCDATA7,"^",4)+$P(RCDATA7,"^",5))'=+$P(RCTOTAL,"^",3) S RCFOUT=1  I $G(RCFOUT) D  . S RCLINE=RCLINE+1  . D SET^RCDPAPLI(" ",RCLINE,1,80)  . S RCLINE=RCLINE+1  . D SET^RCDPAPLI(" STORED BALANCE FOR BILL (\*\* INCORRECT  \*\*)",RCLINE,1,80)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",1),9,2),RCLINE,53,62)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",2),9,2),RCLINE,62,71)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",3)+$P(RCDATA7,"^",4)+$P(RCDATA7,"^",5),9,2),RCLIN  E,71,80)  ;  ; set valmcnt to number of lines in the list  S VALMCNT=RCLINE D HDR  Q  ;  ;  HDR ; header code for list manager display  ; requires rcbillda  N %,DATA,RCDEBTDA,RCDPDATA  ;  D DIQ430^RCDPBPLM(RCBILLDA,".01;8;")  ;  S RCDEBTDA=$P(^PRCA(430,RCBILLDA,0),"^",9) S DATA=$$ACCNTHDR^RCDPAPLM(RCDEBTDA)  ;  S %="",$P(%," ",80)=""  ; PRCA\*4.5\*276 - get EEOB indicator for 1st/3rd party payment and attach to bill when applicable  S PRCOUT=$$COMP3^PRCAAPR(RCBILLDA)  I PRCOUT'="%" S PRCOUT=$$IBEEOBCK^PRCAAPR1(RCBILLDA) S VALMHDR(1)=$E("Bill #:  "\_$G(PRCOUT)\_$G(RCDPDATA(430,RCBILLDA,.01,"E"))\_%,1,25)\_"Account:  "\_$P(DATA,"^")\_$P(DATA,"^",2)  S VALMHDR(2)=$E("Status: "\_$G(RCDPDATA(430,RCBILLDA,8,"E"))\_%,1,25)\_$E(" Addr: "\_$P(DATA,"^",4)\_", "\_$P(DATA,"^",7)\_", ")  ; PRCA\*4.5\*276 - show caption for user  S VALMSG="|% EEOB | Enter ?? for more actions |" ; PRCA\*4.5\*276  Q | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| S VALMHDR(3)=" "\_IORVON\_$E("Bill Balance: "\_$J($P(RCTOTAL,"^")+$P(RCTOTAL,"^",2)+$P(RCTOTAL,"^",3)+$P(RCTOTAL,"^",4)+$P(R)  Q  ;  ;  EXIT ; exit list manager option and clean up  K ^TMP("RCDPBTLM",$J),^TMP("RCDPBTLMX",$J) Q  ;  ;  SELBILL() ; select a bill  ; returns -1 for timeout or ^, 0 for no selection, or ien of bill  N %,%Y,C,DIC,DTOUT,DUOUT,RCBEFLUP,X,Y  N DPTNOFZY,DPTNOFZK S (DPTNOFZY,DPTNOFZK)=1  N RCY,DIR,DIRUT  ; allow user to get the record using bill# or ECME# S DIR("A")="Select (B)ILL or (E)CME#: "  S DIR(0)="SA^B:BILL NUMBER;E:ECME#" S DIR("B")="B"  D ^DIR K DIR I $D(DIRUT) Q 0  S RCY=Y  I RCY="E" Q $$SELECME  S DIC="^PRCA(430,",DIC(0)="QEAM",DIC("A")="Select BILL: " S DIC("W")="D DICW^RCBEUBI1"  ; special lookup on input  S RCBEFLUP=1  D ^DIC  I Y<0,'$G(DUOUT),'$G(DTOUT) S Y=0  Q +Y  ;  ;  GETTRANS(BILLDA) ; original amount goes first for bill  ; returns list of transactions in  ; rclist(date,tranda)=trantype ^ principle ^ interest ^ admin  ; returns principle balance ^ interest balance ^ admin balance  ; ^ marshall fee balance ^ court cost balance  N  %,ADMBAL,AMTDISP,CCBAL,DATA1,DATE,INTBAL,MFBAL,PRINBAL,RCDPDATA,TRANDA, VALUE  ;  D DIQ430^RCDPBPLM(BILLDA,"3;60;")  ;  K RCLIST  S (ADMBAL,CCBAL,INTBAL,MFBAL,PRINBAL)=0  S PRINBAL=RCDPDATA(430,BILLDA,3,"I")  ; loop transaction and add to list  S TRANDA=0 F S TRANDA=$O(^PRCA(433,"C",BILLDA,TRANDA)) Q:'TRANDA D | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| . S DATA1=$G(^PRCA(433,TRANDA,1))  . S DATE=$P(DATA1,"^",9) I 'DATE Q  . S VALUE=$$TRANVALU(TRANDA) I VALUE="" Q  . S RCLIST($P(DATE,"."),TRANDA)=$P($G(^PRCA(430.3,+$P(DATA1,"^",2),0)),"^")\_VALUE  . ;  . ; calculate bill's balance  . S PRINBAL=PRINBAL+$P(VALUE,"^",2)  . S INTBAL=INTBAL+$P(VALUE,"^",3)  . S ADMBAL=ADMBAL+$P(VALUE,"^",4)  . S MFBAL=MFBAL+$P(VALUE,"^",5)  . S CCBAL=CCBAL+$P(VALUE,"^",6)  ;  S DATE=$G(RCDPDATA(430,BILLDA,60,"I"))  ; check to make sure activation date is not greater than first transaction  S %=$O(RCLIST(0)) I DATE>% S DATE=%  S RCLIST(+$P(DATE,"."),0)="original amount^"\_RCDPDATA(430,BILLDA,3,"I")  ;  Q PRINBAL\_"^"\_INTBAL\_"^"\_ADMBAL\_"^"\_MFBAL\_"^"\_CCBAL  ;  ;  TRANVALU(TRANDA) ; return the transaction value as displayed (with + or - sign) N TYPE,VALUE  S VALUE=$$TRANBAL^RCRJRCOT(TRANDA)  ; no dollars on transaction  I '$P(VALUE,"^"),'$P(VALUE,"^",2),'$P(VALUE,"^",3),'$P(VALUE,"^",4),'$P(VALUE,"^",5) Q ""  ; check type for payments, etc, make values (-) to subtract  S TYPE=$P($G(^PRCA(433,TRANDA,1)),"^",2) I  TYPE=2!(TYPE=8)!(TYPE=9)!(TYPE=10)!(TYPE=11)!(TYPE=14)!(TYPE=29)!(TYPE=34)!(TYP  E=35)!(TYPE=41) D  . S $P(VALUE,"^",1)=-$P(VALUE,"^",1)  . S $P(VALUE,"^",2)=-$P(VALUE,"^",2)  . S $P(VALUE,"^",3)=-$P(VALUE,"^",3)  . S $P(VALUE,"^",4)=-$P(VALUE,"^",4)  . S $P(VALUE,"^",5)=-$P(VALUE,"^",5)  ;  ; the following transaction types should not change the bills balance  ; return the amount displayed in the description and 0 for value  ; refer to RC 3, refer to DOJ 4, reestablish 5, returned 6 and 32  ; repayment plan 25, amended 33, suspended 47, unsuspended 46  K AMTDISP I  TYPE=3!(TYPE=4)!(TYPE=5)!(TYPE=6)!(TYPE=25)!(TYPE=32)!(TYPE=33)!(TYPE=46)!(TYPE  =47) D  . S AMTDISP=" | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| ($"\_$J($P(VALUE,"^")+$P(VALUE,"^",2)+$P(VALUE,"^",3)+$P(VALUE,"^",4)+$P(VALUE,"^",5),  0,2)\_")"  . S VALUE=""  Q $G(AMTDISP)\_"^"\_VALUE  ; SELECME() ;  ; function takes the user input of the ECME # to return a valid ien of file 430  ; if an invalid ECME is evaluated then the process keeps asking the user for ECME #  ; until a valid ECME# is entered or until the user enters a "^" or null value  ; output - returns the IEN of the record entry in the ACCOUNT RECEIVABLE file (#430) or  "??"  N RCECME,RCBILL,DIR,DIRUT,Y  S DIR(0)="FO^1:12^I X'?1.12N W !!,""Cannot contain alpha characters"" K X" S DIR("A")="Select ECME#"  RET D ^DIR I $D(DIRUT) Q 0  S RCECME=$S(+Y>0:Y,1:0)  S RCBILL=$$REC^IBRFN(RCECME) ; IA 2031  I RCBILL<0 W !!,"??" G RET  E W !!,$P($G(^PRCA(430,+RCBILL,0)),"^")," " Q RCBILL  ;RCDPBTLM | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| RCDPBTLM ;WISC/RFJ - bill transactions List Manager top routine ;1 Jun 99  ;;4.5;Accounts Receivable;\*\*114,148,153,168,169,198,247,271,276**,307**\*\*;Mar 20, 1995;Build  71  ;;Per VHA Directive 2004-038, this routine should not be modified.  ;  ; Reference to $$REC^IBRFN supported by DBIA 2031  ;  ; called from menu option (19)  ;  N RCBILLDA,RCDPFXIT  ;  F D Q:'RCBILLDA  . W !! S RCBILLDA=$$SELBILL  . I RCBILLDA<1 S RCBILLDA=0 Q  . D EN^VALM("RCDP TRANSACTIONS LIST")  . ; fast exit  . I $G(RCDPFXIT) S RCBILLDA=0  Q  ; | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;  INIT ; initialization for list manager list  ; requires rcbillda  N ADMIN,DATE,RCLINE,RCLIST,RCTOTAL,RCTRAN,RCTRANDA K ^TMP("RCDPBTLM",$J),^TMP("VALM VIDEO",$J)  ;  ; fast exit  I $G(RCDPFXIT) S VALMQUIT=1 Q  ;  ; set the List Manager line number  S RCLINE=0  ; set the List Manager transaction number  S RCTRAN=0  ;  ; get transactions and balance for bill  S RCTOTAL=$$GETTRANS(RCBILLDA)  ;  S DATE="" F S DATE=$O(RCLIST(DATE)) Q:'DATE D  . S RCTRANDA="" F S RCTRANDA=$O(RCLIST(DATE,RCTRANDA)) Q:RCTRANDA="" D  . . S RCLINE=RCLINE+1  . . ;  . . ; create an index array for transaction lookup in list  . . I RCTRANDA D  . . . S RCTRAN=RCTRAN+1  . . . S ^TMP("RCDPBTLM",$J,"IDX",RCTRAN,RCTRAN)=RCTRANDA  . . . D SET^RCDPAPLI(RCTRAN,RCLINE,1,80,0,IORVON,IORVOFF)  . . ;  . . D SET^RCDPAPLI($S(RCTRANDA:RCTRANDA,1:" "),RCLINE,4,80)  . . D SET^RCDPAPLI($E(DATE,4,5)\_"/"\_$E(DATE,6,7)\_"/"\_$E(DATE,2,3),RCLINE,13,21)  . . D SET^RCDPAPLI($TR($P(RCLIST(DATE,RCTRANDA),"^"),"ABCDEFGHIJKLMNOPQRSTUVW XYZ","abcdefghijklmnopqrstuvwxyz"),RCLINE,25,50)  . . D SET^RCDPAPLI($J($P(RCLIST(DATE,RCTRANDA),"^",2),9,2),RCLINE,53,62)  . . D SET^RCDPAPLI($J($P(RCLIST(DATE,RCTRANDA),"^",3),9,2),RCLINE,62,71)  . . ; add marshal fee and court cost to create admin dollars  . . S ADMIN=$P(RCLIST(DATE,RCTRANDA),"^",4)+$P(RCLIST(DATE,RCTRANDA),"^",5)+$P(RCL IST(DATE,RCTRANDA),"^",6)  . . D SET^RCDPAPLI($J(ADMIN,9,2),RCLINE,71,80) | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;  ; show totals  S RCLINE=RCLINE+1  D SET^RCDPAPLI(" --------- -------- --------",RCLINE,1,80) S RCLINE=RCLINE+1  D SET^RCDPAPLI(" TOTAL BALANCE FOR BILL",RCLINE,1,80)  D SET^RCDPAPLI($J($P(RCTOTAL,"^",1),9,2),RCLINE,53,62) D SET^RCDPAPLI($J($P(RCTOTAL,"^",2),9,2),RCLINE,62,71) D  SET^RCDPAPLI($J($P(RCTOTAL,"^",3)+$P(RCTOTAL,"^",4)+$P(RCTOTAL,"^",5),9,2),RCLIN  E,71,80)  ;  ; compare totals to what is stored in the file  N RCDATA7,RCFOUT  S RCDATA7=$G(^PRCA(430,RCBILLDA,7))  ; for a write-off bill, the balance should equal all zeros, for  ; these bills, node 7 is the write-off amount, so for the out of  ; balance check to work, node 7 needs to be adjusted to all zeros  I $P(^PRCA(430,RCBILLDA,0),"^",8)=23 S RCDATA7="0^0^0^0^0" I +$P(RCDATA7,"^",1)'=+$P(RCTOTAL,"^",1) S RCFOUT=1  I +$P(RCDATA7,"^",2)'=+$P(RCTOTAL,"^",2) S RCFOUT=1  I ($P(RCDATA7,"^",3)+$P(RCDATA7,"^",4)+$P(RCDATA7,"^",5))'=+$P(RCTOTAL,"^",3) S RCFOUT=1  I $G(RCFOUT) D  . S RCLINE=RCLINE+1  . D SET^RCDPAPLI(" ",RCLINE,1,80)  . S RCLINE=RCLINE+1  . D SET^RCDPAPLI(" STORED BALANCE FOR BILL (\*\* INCORRECT \*\*)",RCLINE,1,80)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",1),9,2),RCLINE,53,62)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",2),9,2),RCLINE,62,71)  . D SET^RCDPAPLI($J($P(RCDATA7,"^",3)+$P(RCDATA7,"^",4)+$P(RCDATA7,"^",5),9,2),RCLIN E,71,80)  ;  ; set valmcnt to number of lines in the list  S VALMCNT=RCLINE D HDR  Q  ; | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;  HDR ; header code for list manager display  ; requires rcbillda  N %,DATA,RCDEBTDA,RCDPDATA  ;  D DIQ430^RCDPBPLM(RCBILLDA,".01;8;")  ;  S RCDEBTDA=$P(^PRCA(430,RCBILLDA,0),"^",9) S DATA=$$ACCNTHDR^RCDPAPLM(RCDEBTDA)  ;  S %="",$P(%," ",80)=""  ; PRCA\*4.5\*276 - get EEOB indicator for 1st/3rd party payment and attach to bill when applicable  S PRCOUT=$$COMP3^PRCAAPR(RCBILLDA)  I PRCOUT'="%" S PRCOUT=$$IBEEOBCK^PRCAAPR1(RCBILLDA) S VALMHDR(1)=$E("Bill #:  "\_$G(PRCOUT)\_$G(RCDPDATA(430,RCBILLDA,.01,"E"))\_%,1,25)\_"Account:  "\_$P(DATA,"^")\_$P(DATA,"^",2)  S VALMHDR(2)=$E("Status: "\_$G(RCDPDATA(430,RCBILLDA,8,"E"))\_%,1,25)\_$E(" Addr: "\_$P(DATA,"^",4)\_", "\_$P(DATA,"^",7)\_", "\_$P(DATA,"^",8)\_" "\_$P(DATA,"^",9)\_%,1,55)  ; PRCA\*4.5\*276 - show caption for user  S VALMSG="|% EEOB | Enter ?? for more actions |" ; PRCA\*4.5\*276  Q  S VALMHDR(3)=" "\_IORVON\_$E("Bill Balance: "\_$J($P(RCTOTAL,"^")+$P(RCTOTAL,"^",2)+$P(RCTOTAL,"^",3)+$P(RCTOTAL,"^",4)+$P(RC TOTAL,"^",5),0,2)\_%,1,23)\_IORVOFF\_" Phone: "\_$P(DATA,"^",10)  Q  ;  ;  EXIT ; exit list manager option and clean up  K ^TMP("RCDPBTLM",$J),^TMP("RCDPBTLMX",$J) Q  ;  ;  SELBILL() ; select a bill  ; returns -1 for timeout or ^, 0 for no selection, or ien of bill  N %,%Y,C,DIC,DTOUT,DUOUT,RCBEFLUP,X,Y  N DPTNOFZY,DPTNOFZK S (DPTNOFZY,DPTNOFZK)=1  N RCY,DIR,DIRUT | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ; allow user to get the record using bill# or ECME# S DIR("A")="Select (B)ILL or (E)CME#: "  S DIR(0)="SA^B:BILL NUMBER;E:ECME#" S DIR("B")="B"  D ^DIR K DIR I $D(DIRUT) Q 0  S RCY=Y  I RCY="E" Q $$SELECME  S DIC="^PRCA(430,",DIC(0)="QEAM",DIC("A")="Select BILL: " S DIC("W")="D DICW^RCBEUBI1"  ; special lookup on input  S RCBEFLUP=1  D ^DIC  I Y<0,'$G(DUOUT),'$G(DTOUT) S Y=0  Q +Y  ;  ;  GETTRANS(BILLDA) ; original amount goes first for bill  ; returns list of transactions in  ; rclist(date,tranda)=trantype ^ principle ^ interest ^ admin  ; returns principle balance ^ interest balance ^ admin balance  ; ^ marshall fee balance ^ court cost balance  N  %,ADMBAL,AMTDISP,CCBAL**,DATA0**,DATA1**,DATA9**,DATE,INTBAL,MFBAL,PRINBAL,RCDP DATA,TRANDA,VALUE  ;  D DIQ430^RCDPBPLM(BILLDA,"3;60;")  ;  K RCLIST  S (ADMBAL,CCBAL,INTBAL,MFBAL,PRINBAL)=0  S PRINBAL=RCDPDATA(430,BILLDA,3,"I")  ; loop transaction and add to list  S TRANDA=0 F S TRANDA=$O(^PRCA(433,"C",BILLDA,TRANDA)) Q:'TRANDA D  . S DATA1=$G(^PRCA(433,TRANDA,1))  . S DATE=$P(DATA1,"^",9) I 'DATE Q  **. ; Don't include transactions that have the INCOMPLETE TRANSACTION FLAG (#10) set to YES and**  **. ; this transaction was previously used by the auto-correct program to correct an earlier issue. PRCA\*4.5\*307**  **. S DATA0=$G(^PRCA(433,TRANDA,0))** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **. S DATA9=$G(^PRCA(433,TRANDA,9))**  **. ; Check for Incomplete and previously fixed by auto-correct**  **. I $P(DATA0,U,10),($P(DATA9,U,4)) S VALUE="" Q**  . S VALUE=$$TRANVALU(TRANDA) I VALUE="" Q  . S RCLIST($P(DATE,"."),TRANDA)=$P($G(^PRCA(430.3,+$P(DATA1,"^",2),0)),"^")\_VALUE  . ;  . ; calculate bill's balance  . S PRINBAL=PRINBAL+$P(VALUE,"^",2)  . S INTBAL=INTBAL+$P(VALUE,"^",3)  . S ADMBAL=ADMBAL+$P(VALUE,"^",4)  . S MFBAL=MFBAL+$P(VALUE,"^",5)  . S CCBAL=CCBAL+$P(VALUE,"^",6)  ;  S DATE=$G(RCDPDATA(430,BILLDA,60,"I"))  ; check to make sure activation date is not greater than first transaction  S %=$O(RCLIST(0)) I DATE>% S DATE=%  S RCLIST(+$P(DATE,"."),0)="original amount^"\_RCDPDATA(430,BILLDA,3,"I")  ;  Q PRINBAL\_"^"\_INTBAL\_"^"\_ADMBAL\_"^"\_MFBAL\_"^"\_CCBAL  ;  ;  TRANVALU(TRANDA) ; return the transaction value as displayed (with + or - sign) N TYPE,VALUE  S VALUE=$$TRANBAL^RCRJRCOT(TRANDA)  ; no dollars on transaction  I '$P(VALUE,"^"),'$P(VALUE,"^",2),'$P(VALUE,"^",3),'$P(VALUE,"^",4),'$P(VALUE,"^",5) Q ""  ; check type for payments, etc, make values (-) to subtract  S TYPE=$P($G(^PRCA(433,TRANDA,1)),"^",2) I  TYPE=2!(TYPE=8)!(TYPE=9)!(TYPE=10)!(TYPE=11)!(TYPE=14)!(TYPE=29)!(TYPE=34)!(TYP  E=35)!(TYPE=41) D  . S $P(VALUE,"^",1)=-$P(VALUE,"^",1)  . S $P(VALUE,"^",2)=-$P(VALUE,"^",2)  . S $P(VALUE,"^",3)=-$P(VALUE,"^",3)  . S $P(VALUE,"^",4)=-$P(VALUE,"^",4)  . S $P(VALUE,"^",5)=-$P(VALUE,"^",5)  ;  ; the following transaction types should not change the bills balance  ; return the amount displayed in the description and 0 for value | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ; refer to RC 3, refer to DOJ 4, reestablish 5, returned 6 and 32  ; repayment plan 25, amended 33, suspended 47, unsuspended 46  K AMTDISP I  TYPE=3!(TYPE=4)!(TYPE=5)!(TYPE=6)!(TYPE=25)!(TYPE=32)!(TYPE=33)!(TYPE=46)!(TYPE  =47) D  . S AMTDISP=" ($"\_$J($P(VALUE,"^")+$P(VALUE,"^",2)+$P(VALUE,"^",3)+$P(VALUE,"^",4)+$P(VALUE,"^",5),  0,2)\_")"  . S VALUE=""  Q $G(AMTDISP)\_"^"\_VALUE  ;  SELECME() ;  ; function takes the user input of the ECME # to return a valid ien of file 430  ; if an invalid ECME is evaluated then the process keeps asking the user for ECME #  ; until a valid ECME# is entered or until the user enters a "^" or null value  ; output - returns the IEN of the record entry in the ACCOUNT RECEIVABLE file (#430) or "??" N RCECME,RCBILL,DIR,DIRUT,Y  S DIR(0)="FO^1:12^I X'?1.12N W !!,""Cannot contain alpha characters"" K X"  S DIR("A")="Select ECME#" RET D ^DIR I $D(DIRUT) Q 0  S RCECME=$S(+Y>0:Y,1:0)  S RCBILL=$$REC^IBRFN(RCECME) ; IA 2031  I RCBILL<0 W !!,"??" G RET  E W !!,$P($G(^PRCA(430,+RCBILL,0)),"^")," " Q RCBILL  ;RCDPBTLM | | |

**Table 20: Routines: RCWROFF Routines Activities**

**Routine Name** RCWROFF

**Enhancement Category** New Modify Delete No Change

**RTM** US006

Compromised by RC/DOJ, Terminated by RC/DOJ, Waived by

**Related Options**

RC/DOJ, Suspend an AR bill, Compromise Termination, Fiscal

Officer Terminated, Full Waiver, Partial Waiver

**Related Routines Routines “Called By” Routines “Called”**

$$GETABILL^RCBEUBIL, SHOWBILL^RCWROFF1,

$$ADD433^RCBEUTRA,

$$EDIT433^RCBEUTRA, SETRCDOJ^RCBEUBIL,

CHGSTAT^RCBEUBIL,

PROCESS^RCBEUTRA,

$$ACCK^PRCAACC,

$$LDATE^RCRJ,

$$FPS^RCAMFN0,

$$BUILDWR^RCXFMSW1,

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Activities** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |
| **Related Integration Control Registrations (ICRs)** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global  Reference Reference Local | | |
| **Input Attribute Name and**  **Definition** | | | Name: N/A Definition: | | |
| **Output Attribute Name and Definition** | | | Name: N/A Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| RCWROFF ;WISC/RFJ-write off, terminated ;1 Feb 2000  ;;4.5;Accounts Receivable;\*\*168,204,309\*\*;Mar 20, 1995;Build 72  ;;Per VA Directive 6402, this routine should not be modified. Q  ;  ;  8 ; terminated by fiscal officer (trantype=8) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("8^Fiscal Officer Termination",RCDRSTRG) Q  ;  ; | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| 9 ; terminated by compromise (trantype=9) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("9^Compromise Termination",RCDRSTRG) Q  ;  ;  A9 ; compromised by rc/doj (use trantype=9) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("9^Compromise Termination by RC/DOJ",RCDRSTRG) Q  ;  ;  10 ; waived in full transaction (trantype=10) (menu option) D MAIN("10^Waiver","11WAIVED DATE;")  Q  ;  ;  A10 ; waived by rc/doj (use trantype=10) (menu option) D MAIN("10^RC/DOJ Waiver","11WAIVED DATE;")  Q  ;  ;  29 ; terminated by rc/doj (trantype=29) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("29^RC/DOJ Termination",RCDRSTRG) Q  ;  ;  47 ; suspended (trantype=47) (menu option) N RCDRSTRG  S RCDRSTRG="11SUSPENDED DATE;"  S RCDRSTRG=RCDRSTRG\_"90R;" ;suspension type  S RCDRSTRG=RCDRSTRG\_"S RCX=$$SUSTP^RCWROFF(X);" S RCDRSTRG=RCDRSTRG\_"5.02////^S X=RCX;" ;brief comment  S RCDRSTRG=RCDRSTRG\_"K RCX;"  D MAIN("47^Suspension",RCDRSTRG) Q  ;  SUSTP(X) ; suspension types for brief comment in \*309  ; input-code between 0 to 11  ; output-text | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| N IBX  S IBX=$P($T(SUSTX+X),";;",2) Q IBX  ;  SUSTX ;;NOT CO-PAY SUSPENSION  ;;INITIAL CO-PAY WAIVER  ;;APPEAL CO-PAY WAIVER  ;;ADMINISTRATIVE SUSPENSION  ;;COMPROMISE  ;;TERMINATION  ;;BANKRUPTCY CHAP 7  ;;BANKRUPTCY CHAP 13  ;;BANKRUPTCY OTHER  ;;PROBATE  ;;CHOICE  ;;DISPUTE  ;  ;  MAIN(RCTRTYPE,RCDRSTRG) ; main subroutine to process a waiver, termination, sus pended transaction  ; rctrtype = transaction type^description, example 10^waiver  ; rcdrstrg = dr string used when calling die  N BALANCE,DR,RCBILLDA,RCTRANDA,Y F D Q:RCBILLDA<1  . K RCTRANDA ;do not leave around in for loop  . ; select a bill  . S RCBILLDA=$$GETABILL^RCBEUBIL I RCBILLDA<1 Q  . ; check to see if bill has been referred to rc/doj (6;4 = referral date)  . I $P(RCTRTYPE,"^",2)["RC/DOJ",$P($G(^PRCA(430,RCBILLDA,6)),"^",4)=" " W !,"THIS ACCOUNT IS NOT REFERRED TO RC/DOJ." Q  . ; lock the bill  . L +^PRCA(430,RCBILLDA):5 I '$T W !,"ANOTHER USER IS CURRENTLY WORKI NG WITH THIS BILL." Q  . D SHOWBILL^RCWROFF1(RCBILLDA)  . I '$G(^PRCA(430,RCBILLDA,7)) W !,"THIS BILL HAS NO PRINCIPAL BALANC E." D UNLOCK Q  . ; ask to enter transaction  . S Y=$$ASKOK($P(RCTRTYPE,"^",2)) I Y'=1 D UNLOCK S:Y<0 RCBILLDA=0 Q  . ; add a new transaction to file 433  . S RCTRANDA=$$ADD433^RCBEUTRA(RCBILLDA,$P(RCTRTYPE,"^")) I 'RCTRANDA W !,$P(RCTRANDA,"^",2) D UNLOCK Q  . W !," Transaction number ",RCTRANDA," added ..."  . ;  . ; set up dr string for die call  . S DR=RCDRSTRG\_"41;" ;comment  . ; bill amount moved to transaction amount | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| . S BALANCE=$P($G(^PRCA(430,RCBILLDA,7)),"^",1,5)  . S DR=DR\_"15////"\_($P(BALANCE,"^")+$P(BALANCE,"^",2)+$P(BALANCE,"^",  3)+$P(BALANCE,"^",4)+$P(BALANCE,"^",5))\_";"  . I $P(BALANCE,"^",1) S DR=DR\_"81////"\_+$P(BALANCE,"^",1)\_";" ;prin cipal  . I $P(BALANCE,"^",2) S DR=DR\_"82////"\_+$P(BALANCE,"^",2)\_";" ;inte  rest  . I $P(BALANCE,"^",3) S DR=DR\_"83////"\_+$P(BALANCE,"^",3)\_";" ;admi n  . I $P(BALANCE,"^",4) S DR=DR\_"84////"\_+$P(BALANCE,"^",4)\_";" ;mars hal fee  . I $P(BALANCE,"^",5) S DR=DR\_"85////"\_+$P(BALANCE,"^",5)\_";" ;cour  t cost  . ;  . ; edit the fields  . S Y=$$EDIT433^RCBEUTRA(RCTRANDA,DR)  . I 'Y W !,$P(Y,"^",2) D DEL433^RCBEUTRA(RCTRANDA,"",0),UNLOCK Q  . ; set the bill and transaction as RC/DOJ  . I $P(RCTRTYPE,"^",2)["RC/DOJ" D SETRCDOJ^RCBEUBIL(RCBILLDA,RCTRANDA  ,"RC")  . ; change the status of the bill  . I $P(RCTRTYPE,"^")'=47 D CHGSTAT^RCBEUBIL(RCBILLDA,23) ;write off  . I $P(RCTRTYPE,"^")=47 D CHGSTAT^RCBEUBIL(RCBILLDA,40) ;suspended  . ; mark transaction as processed  . D PROCESS^RCBEUTRA(RCTRANDA)  . ;  . ; create fms write off document, if not accrued and not suspended  (47) transaction  . I '$$ACCK^PRCAACC(RCBILLDA),$P($G(^PRCA(433,RCTRANDA,1)),"^",2)'=47  D FMSDOC(RCTRANDA)  . ;  . W !," \* \* \* \* \* ",$P(RCTRTYPE,"^",2)," has been PROCESSED! \* \* \* \*  \*"  .I '$G(REFMS)&(DT>$$LDATE^RCRJR(DT)) S Y=$E($$FPS^RCAMFN01(DT,1),1,5)\_"  01" D DD^%DT W !!," \* \* \* \* Transmission will be held until "\_Y\_" \* \* \* \*"  . D UNLOCK Q  ;  ;  FMSDOC(RCTRANDA) ; create fms write off document  N Y  W !!,"Creating FMS Write-off document ... "  S Y=$$BUILDWR^RCXFMSW1(RCTRANDA) I Y W $P(Y,"^",2)," created."  E W "ERROR: ",$P(Y,"^",2) Q  ; | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| ;  UNLOCK ; unlock bill and transaction  L -^PRCA(430,RCBILLDA)  I $G(RCTRANDA) L -^PRCA(433,RCTRANDA) Q  ;  ;  ASKOK(TRANTYPE) ; ask record transaction N DIR,DIQ2,DIRUT,DTOUT,DUOUT,X,Y S DIR(0)="YO",DIR("B")="NO"  S DIR("A")=" Are you sure you want to record this bill as a " I $L(TRANTYPE)<20 S DIR("A")=DIR("A")\_TRANTYPE  E S DIR("A",1)=DIR("A"),DIR("A")=" "\_TRANTYPE W ! D ^DIR  I $G(DTOUT)!($G(DUOUT)) S Y=-1  Q Y | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| RCWROFF ;WISC/RFJ-write off, terminated ;1 Feb 2000  ;;4.5;Accounts Receivable;\*\*168,204,309**,301,307**\*\*;Mar 20, 1995;Build 55  ;;Per VA Directive 6402, this routine should not be modified. Q  ;  ;  8 ; terminated by fiscal officer (trantype=8) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("8^Fiscal Officer Termination",RCDRSTRG) Q  ;  ;  9 ; terminated by compromise (trantype=9) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("9^Compromise Termination",RCDRSTRG) Q  ;  ;  A9 ; compromised by rc/doj (use trantype=9) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("9^Compromise Termination by RC/DOJ",RCDRSTRG) Q  ; | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;  10 ; waived in full transaction (trantype=10) (menu option) D MAIN("10^Waiver","11WAIVED DATE;")  Q  ;  ;  A10 ; waived by rc/doj (use trantype=10) (menu option) D MAIN("10^RC/DOJ Waiver","11WAIVED DATE;")  Q  ;  ;  29 ; terminated by rc/doj (trantype=29) (menu option) N RCDRSTRG  S RCDRSTRG="11TERMINATION DATE;"  S RCDRSTRG=RCDRSTRG\_"17;" ;termination reason  D MAIN("29^RC/DOJ Termination",RCDRSTRG) Q  ;  ;  47 ; suspended (trantype=47) (menu option) N RCDRSTRG  S RCDRSTRG="11SUSPENDED DATE;"  S RCDRSTRG=RCDRSTRG\_"90R;" ;suspension type  S RCDRSTRG=RCDRSTRG\_"S RCX=$$SUSTP^RCWROFF(X);" S RCDRSTRG=RCDRSTRG\_"5.02////^S X=RCX;" ;brief comment  S RCDRSTRG=RCDRSTRG\_"K RCX;"  D MAIN("47^Suspension",RCDRSTRG) Q  ;  SUSTP(X) ; suspension types for brief comment in \*309  ; input-code between 0 to 11  ; output-text  N IBX  S IBX=$P($T(SUSTX+X),";;",2) Q IBX  ;  SUSTX ;;NOT CO-PAY SUSPENSION  ;;INITIAL CO-PAY WAIVER  ;;APPEAL CO-PAY WAIVER  ;;ADMINISTRATIVE SUSPENSION  ;;COMPROMISE  ;;TERMINATION  ;;BANKRUPTCY CHAP 7  ;;BANKRUPTCY CHAP 13  ;;BANKRUPTCY OTHER  ;;PROBATE  ;;CHOICE | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| ;;DISPUTE  ;  ;  MAIN(RCTRTYPE,RCDRSTRG) ; main subroutine to process a waiver, termination, suspended transaction  ; rctrtype = transaction type^description, example 10^waiver  ; rcdrstrg = dr string used when calling die  N BALANCE,DR,RCBILLDA,RCTRANDA,Y F D Q:RCBILLDA<1  . K RCTRANDA ;do not leave around in for loop  . ; select a bill  . S RCBILLDA=$$GETABILL^RCBEUBIL I RCBILLDA<1 Q  **. I $D(^PRCA(430,"TCSP",RCBILLDA)) W !,"BILL HAS BEEN REFERRED TO CROSS- SERVICING.",!,"NO TRANSACTIONS ARE ALLOWED." D Q ;prca\*4.5\*301**  **. . I +RCTRTYPE=10!(+RCTRTYPE=47)!(+RCTRTYPE=9)!(+RCTRTYPE=8) W !,"\*\* THE RECALL PROCESS MUST BE UTILIZED PRIOR TO PERFORMING THIS FUNCTION**  **\*\*" ;prca\*4.5\*301**  . ; check to see if bill has been referred to rc/doj (6;4 = referral date)  . I $P(RCTRTYPE,"^",2)["RC/DOJ",$P($G(^PRCA(430,RCBILLDA,6)),"^",4)="" W !,"THIS ACCOUNT IS NOT REFERRED TO RC/DOJ." Q  . ; lock the bill  . L +^PRCA(430,RCBILLDA):5 I '$T W !,"ANOTHER USER IS CURRENTLY WORKING WITH THIS BILL." Q  . D SHOWBILL^RCWROFF1(RCBILLDA)  . I '$G(^PRCA(430,RCBILLDA,7)) W !,"THIS BILL HAS NO PRINCIPAL BALANCE." D UNLOCK Q  . ; ask to enter transaction  . S Y=$$ASKOK($P(RCTRTYPE,"^",2)) I Y'=1 D UNLOCK S:Y<0 RCBILLDA=0 Q  . ; add a new transaction to file 433  . S RCTRANDA=$$ADD433^RCBEUTRA(RCBILLDA,$P(RCTRTYPE,"^")) I 'RCTRANDA W !,$P(RCTRANDA,"^",2) D UNLOCK Q  . W !," Transaction number ",RCTRANDA," added ..."  . ;  . ; set up dr string for die call PRCA\*4.5\*307 - Move comment below balance sets  . S DR=RCDRSTRG **;\_"41;" ;comment**  . ; bill amount moved to transaction amount  . S BALANCE=$P($G(^PRCA(430,RCBILLDA,7)),"^",1,5)  .  S DR=DR\_"15////"\_($P(BALANCE,"^")+$P(BALANCE,"^",2)+$P(BALANCE,"^",3)+$P(BALANCE  ,"^",4)+$P(BALANCE,"^",5))\_";"  . I $P(BALANCE,"^",1) S DR=DR\_"81////"\_+$P(BALANCE,"^",1)\_";" ;principal  . I $P(BALANCE,"^",2) S DR=DR\_"82////"\_+$P(BALANCE,"^",2)\_";" ;interest  . I $P(BALANCE,"^",3) S DR=DR\_"83////"\_+$P(BALANCE,"^",3)\_";" ;admin  . I $P(BALANCE,"^",4) S DR=DR\_"84////"\_+$P(BALANCE,"^",4)\_";" ;marshal fee  . I $P(BALANCE,"^",5) S DR=DR\_"85////"\_+$P(BALANCE,"^",5)\_";" ;court cost  . ;  **. ; PRCA\*4.5\*307 - Comment save is moved below balance sets** | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| **. S DR=DR\_"41;"**  . ; edit the fields  . S Y=$$EDIT433^RCBEUTRA(RCTRANDA,DR)  . I 'Y W !,$P(Y,"^",2) D DEL433^RCBEUTRA(RCTRANDA,"",0),UNLOCK Q  . ; set the bill and transaction as RC/DOJ  . I $P(RCTRTYPE,"^",2)["RC/DOJ" D SETRCDOJ^RCBEUBIL(RCBILLDA,RCTRANDA,"RC")  . ; change the status of the bill  . I $P(RCTRTYPE,"^")'=47 D CHGSTAT^RCBEUBIL(RCBILLDA,23) ;write off  . I $P(RCTRTYPE,"^")=47 D CHGSTAT^RCBEUBIL(RCBILLDA,40) ;suspended  . ; mark transaction as processed  . D PROCESS^RCBEUTRA(RCTRANDA)  . ;  . ; create fms write off document, if not accrued and not suspended (47) transaction  . I '$$ACCK^PRCAACC(RCBILLDA),$P($G(^PRCA(433,RCTRANDA,1)),"^",2)'=47  D FMSDOC(RCTRANDA)  . ;  . W !," \* \* \* \* \* ",$P(RCTRTYPE,"^",2)," has been PROCESSED! \* \* \* \* \*"  **.** I '$G(REFMS)&(DT>$$LDATE^RCRJR(DT))  S Y=$E($$FPS^RCAMFN01(DT,1),1,5)\_"01" D DD^%DT W !!," \* \* \* \* Transmission will be held until "\_Y\_" \* \* \* \*"  . D UNLOCK Q  ;  ;  FMSDOC(RCTRANDA) ; create fms write off document  N Y  W !!,"Creating FMS Write-off document ... "  S Y=$$BUILDWR^RCXFMSW1(RCTRANDA) I Y W $P(Y,"^",2)," created."  E W "ERROR: ",$P(Y,"^",2) Q  ;  ;  UNLOCK ; unlock bill and transaction  L -^PRCA(430,RCBILLDA)  I $G(RCTRANDA) L -^PRCA(433,RCTRANDA) Q  ;  ;  ASKOK(TRANTYPE) ; ask record transaction  N DIR,DIQ2,DIRUT,DTOUT,DUOUT,X,Y S DIR(0)="YO",DIR("B")="NO"  S DIR("A")=" Are you sure you want to record this bill as a "  I $L(TRANTYPE)<20 S DIR("A")=DIR("A")\_TRANTYPE E S DIR("A",1)=DIR("A"),DIR("A")=" "\_TRANTYPE  W ! D ^DIR  I $G(DTOUT)!($G(DUOUT)) S Y=-1 | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| Q Y | | |

**6.2.2.3.2. Templates**

**Table 21: Templates**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Templates** |  |  | **Description** |  |
| **Template Name** | | | PRCA RE-ESTABLISH WRITE-OFF | | |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **RSD** | | |  | | |
| **Template Type** | | | Sort Input Print Other | | |
| **Related Options** | | | PRCAC TR RE-ESTABLISH BILL | | |

**Related Routines Routines “Called By” Routines “Called”**

PRCAWREA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Description** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Global References** | | | N/A | | |

**6.2.2.3.3. Bulletins**

**Table 22: Bulletins**

**Bulletins Description**

**Bulletin Name**

**Enhancement Category** New Modify Delete No Change

**RTM**

**Related Routines Routines “Called By” Routines “Called”**

**Routines Description**

**Mail Subject**

**Mail Group**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Routines** |  |  | **Description** |  |
| **Parameters** | | |  | | |
| **Data Dictionary (DD) References** | | |  | | |

**6.2.2.3.4. Data Entries Affected by the Design**

There are 3 new audit related fields that are being created for Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1). These fields will only be populated for bad transactions that have been corrected by the auto-correction process. The maximum number of bytes for all four fields will be 18 bytes. The overall affect on the system will be minute compared to the existing data and the current daily workload of transactions that will not have these fields set. In addition the other updates for this patch fix all of the issues that resulted in bad transactions, so there shouldn’t be any future bad transactions.

**Table 23: Data Entries Affected by the Design**

**Field Name Current Value New Value**

AUTO-CORRECTION DATE field (#94)

AUTO-CORRECTION TRANS. AMOUNT field (#95)

AUTO-CORRECTION TYPE OF ERROR field (#96)

AUTO-CORRECTION TICKET FLAG (#97)

N/A 7 byte FileMan date i.e.

3161020

N/A Dollar amount between -999999 and 999999, 2 decimal digits. 8 bytes max

N/A 1 byte error code

N/A 1 byte Y/N Flag

**6.2.2.3.5. Unique Record(s)**

**Table 24: Unique Record ID**

**Field Name(s) Current Value New Value**

**6.2.2.3.6. File or Global Size Changes**

There are 3 new audit related fields that are being created for Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1). These fields will only be populated for bad transactions that have been corrected by the auto-correction process. The maximum number of bytes for all four fields will be 18 bytes. The overall affect on the system will be minute compared to the existing data and the current daily workload of transactions that will not have these fields set. In addition the other updates for this patch fix all of the issues that resulted in bad transactions, so there shouldn’t be any future bad transactions.

**Table 25: File or Global Size Changes**

**File/Global Name(s) Estimated Increase Estimated Decrease**

AR TRANSACTION file

(#433)

AUTO-CORRECTION DATE

field (#94)

AR TRANSACTION file

(#433)

AUTO-CORRECTION TRANS. AMOUNT field (#95)

AR TRANSACTION file

(#433)

AUTO-CORRECTION TYPE OF ERROR field (#96)

AR TRANSACTION file

(#433)

AUTO-CORRECTION TICKET FLAG (#97)

**6.2.2.3.7. Mail Groups**

7 byte FileMan date i.e.

3161020

Dollar amount between -

999999 and 999999, 2 decimal digits. 9 bytes max

1 byte error code

1 byte Y/N Flag

**Table 26: Mail Groups**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mail Groups** |  |  | **Activities** |  |
|  | |  | PRCACPS | | |
|  | **Mail Group Name** |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **Related Options** | | |  | | |

**Related Routines Routines “Called By” Routines “Called”**

PRCACPS, PRCAACR, PRCAACR1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mail Groups** |  |  | **Instructions** |  |
| **Data Dictionary (DD) References** | | | N/A | | |
| **Related Protocols** | | | N/A | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Mail Groups** |  |  | **Instructions** |  |
| **Mail Group Description** | | | This mail group will receive a notifications under the following 3 circumstances:  1. The Patient Statement Auto-Correction Program whether run manually or through a scheduled TaskMan job has run to completion.  2. The Patient Statement Auto-Correction Program whether run manually or through a scheduled TaskMan job determines that the Patient Statement Auto-Correction Program is still running or that it may have errored out during a previous run.  3. The Auto-Correct Patient Discrepancy Report is run and it determines that the Patient Statement Auto-Correction program is still running or that it may have errored out during a previous run and the user elects to run the report anyway. | | |
| **Self-Enrollment Allowed** | | | Yes No | | |
| **Type** | | | Public Private | | |

**6.2.2.3.8. Security Keys**

**Table 27: Security Keys**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Security Keys** |  |  | **Activities** |  |
|  | |  | PRCA AUTOCRCT PGM | | |
|  | **Security Key Name** |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Related Options** | | | Patient Statement Auto-Correction Program | | |

**Related Routines Routines “Called By” Routines “Called”**

PRCACPS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Security Keys** |  |  | **Activities** |  |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Security Key**  **Description** | | | This is a key for the AR option 'PRCA AUTOCRCT PGM'. The 'PRCA AUTOCRCT PGM' option runs the Patient Statement Auto-Correction Program. | | |
| **Subordinate Keys** | | | N/A | | |
| **Mutually Exclusive**  **Keys** | | | N/A | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Security Keys** |  |  | **Activities** |  |
| **Granting Condition**  **Logic** | | | The PRCACPS mail group coordinator is entered by OI&T during the installation of the patch. OI&T will work with the PRCACPS mail group coordinator to assign the PRCA AUTOCRCT PGM security key to the local Account Receivable staff who need the ability to run the Patient Statement Auto-Correction Program. | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
| N/A | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Security Keys** |  |  | **Activities** |  |
| **Hierarchical**  **Precedence** | | | N/A | | |

**6.2.2.3.9. Options**

The PRCA ACCOUNT MANAGEMENT menu option will be updated to include two new ITEMS: PRCA AUTOCRCT PGM - DISPLAY ORDER: 4 and ITEM: PRCA AUTOCRCT RPT - DISPLAY ORDER: 3

**Table 28: Option PRCA ACCOUNT MANAGEMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Options** |  |  | **Activities** |  |
| **Option Name** | | | PRCA ACCOUNT MANAGEMENT | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Associated Menu Options that will invoke this reference** | | | XUCORE  => PRCA MANAGER MENU  => PRCA CLERK MENU  => PRCA ACCOUNT MANAGEMENT | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Menu Text**  **Description** | | | Account Management | | |
| **Option Type** | | | Edit Print Menu Inquire  Action Run Routine Other | | |
| **Associated Routine** | | | N/A | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Options** |  |  | **Activities** |  |
| **Option Definition** | | | This option allows the user to enter or log information specific to a debtor account, such as, address information and comments. | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Entry Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Entry Action Logic (Changes are in bold)** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Exit Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Exit Action Logic (Changes are in bold)** |  |
| N/A | | |

**Table 29: Option PRCA AUTOCRCT PGM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Options** |  |  | **Activities** |  |
| **Option Name** | | | PRCA AUTOCRCT PGM | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Associated Menu Options that will invoke this reference** | | | PRCA ACCOUNT MANAGEMENT | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Menu Text**  **Description** | | | Patient Statement Auto-Correction Program | | |
| **Option Type** | | | Edit Print Menu Inquire  Action Run Routine Other | | |
| **Associated Routine** | | | BEGIN^PRCACPS | | |
| **Option Definition** | | | This option runs the Auto-Correction program for Patient  Statement discrepancies. | | |

**Current Entry Action Logic**

|  |  |  |
| --- | --- | --- |
|  | **Current Entry Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Entry Action Logic (Changes are in bold)** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Exit Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Exit Action Logic (Changes are in bold)** |  |
| N/A | | |

**Table 30: Option PRCA AUTOCRCT PGM QUEUED**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Options** |  |  | **Activities** |  |
| **Option Name** | | | PRCA AUTOCRCT PGM QUEUED | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Associated Menu Options that will invoke this reference** | | | N/A | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Menu Text**  **Description** | | | Patient Statement Auto-Correction Program Queued | | |
| **Option Type** | | | Edit Print Menu Inquire  Action Run Routine Other | | |
| **Associated Routine** | | | START^PRCACPS | | |
| **Option Definition** | | | This option supports the entry point for the Queueing of the  Auto-Correction program for Patient Statement discrepancies. | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Entry Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Entry Action Logic (Changes are in bold)** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Exit Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Exit Action Logic (Changes are in bold)** |  |
| N/A | | |

**Table 31: Option PRCA AUTOCRCT RPT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Options** |  |  | **Activities** |  |
| **Option Name** | | | PRCA AUTOCRCT RPT | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Associated Menu Options that will invoke this reference** | | | PRCA ACCOUNT MANAGEMENT | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Menu Text**  **Description** | | | Auto-Correct Patient Discrepancy Report | | |
| **Option Type** | | | Edit Print Menu Inquire  Action Run Routine Other | | |
| **Associated Routine** | | | PSACRT^PRCAACR | | |
| **Option Definition** | | | This option runs the Auto-Correction Patient Discrepancy Report for corrections made by the Patient Statement Auto-Correction Program. | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Entry Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Entry Action Logic (Changes are in bold)** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Exit Action Logic** |  |
| N/A | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Exit Action Logic (Changes are in bold)** |  |
| N/A | | |

**6.2.2.3.10. Protocols**

**Table 32: Protocols**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Protocols** |  |  | **Activities** |  |
| **Protocol Name** | | | N/A | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Associated**  **Protocols** | | |  | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Item Text**  **Description** | | |  | | |
| **Protocol Type** | | | Action Menu Protocol Menu Limited Protocol  Extended Action Dialog Other | | |
| **Associated Routine** | | |  | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Entry Action Logic** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Entry Action Logic (Changes are in bold)** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Exit Action Logic** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Exit Action Logic (Changes are in bold)** |  |
|  | | |

**6.2.2.3.11. Remote Procedure Call (RPC)**

**Table 33: RPCs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **RPCs** |  |  | **Activities** |  |
| **Name** | | | N/A | | |
| **TAG^RTN** | | |  | | |
| **Input Parameters** | | |  | | |
| **Results Array** | | | Single Value Array Word Processing  Global Array Global Instance | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **RPCs** |  |  | **Activities** |  |
| **Description** | | |  | | |

**6.2.2.3.12. Constants Defined in Interface**

**Table 34: Constants Defined in Interface**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Name** |  |  | **Description** |  |
| N/A | | |  | | |

**6.2.2.3.13. Variables Defined in Interface**

**Table 35: Variables Defined in Interface**

**Name Type Description**

N/A

**6.2.2.3.14. Types Defined in Interface**

**Table 36: Types Defined in Interface Name Type Description** N/A

**6.2.2.3.15. GUI**

There are no GUI interfaces in Patient Statement Enhancements (PSE) Discrepancies (Increment

1, Phase 1).

**Table 37: GUI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Unit Name** |  |  | **Description** |  |
| N/A | | |  | | |

**6.2.2.3.16. GUI Classes**

**Table 38: GUI Classes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **GUI Classes** |  |  | **Instructions** |  |
| **Class Name** | | | N/A | | |
| **Derived From Class** | | |  | | |
| **Purpose** | | |  | | |

**6.2.2.3.17. Current Form**

N/A

**6.2.2.3.18. Modified Form**

N/A

**6.2.2.3.19. Components on Form**

**Table 39: Components on Form**

**Name Type Description**

N/A

**6.2.2.3.20. Events**

**Table 40: Events**

**Name Type Description**

N/A

**6.2.2.3.21. Methods**

**Table 41: Methods**

**Method Name Procedure/Function Description**

N/A

**6.2.2.3.22. Special References**

**Table 42 : Special References**

**Special Reference Name Type Description**

N/A

**6.2.2.3.23. Class Events**

**Table 43: Class Events**

**Name Type Description**

N/A

**6.2.2.3.24. Class Methods**

**Table 44: Class Methods**

**Name Procedure/Function Description**

N/A

**6.2.2.3.25. Class Properties**

**Table 45: Class Properties**

**Class Properties Name Type Visibility Description**

N/A

**6.2.2.3.26. Uses Clause**

N/A

**6.2.2.3.27. Forms**

**Table 46: Forms**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Forms** |  |  | **Description** |  |
| **Form Name** | | | N/A | | |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **Form Functionality** | | |  | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Form Layout** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Form Layout (Changes are in bold)** |  |
|  | | |

**6.2.2.3.28. Functions**

**Table 47: Forms**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Function Name** |  |  | **Activities** |  |
| **Short**  **Description** | | | N/A | | |
| **Enhancement**  **Category** | | | New Modify Delete No Change | | |
| **Related Options** | | |  | | |

**Related Routines Routines “Called By” Routines “Called”**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Function Name** |  |  | **Activities** |  |
| **Data Dictionary**  **(DD) References** | | |  | | |
| **Related**  **Protocols** | | |  | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Function Name** |  |  | **Activities** |  |
| **Related Integration Control Registrations (ICRs)** | | |  | | |
| **Data Passing** | | | Input Output Both Global Reference Local Reference | | |
| **Input Attribute Name and Definition** | | | Name: Definition: | | |
| **Output Attribute Name and Definition** | | | Name: Definition: | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Logic** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Logic (Changes are in bold)** |  |
|  | | |

**6.2.2.3.29. Dialog**

**Table 48: Dialog**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Dialog** |  |  | **Instructions** |  |
| **Dialog Message**  **(Description)** | | | N/A | | |
| **Enhancement Category** | | | Modify Delete No Change  New | | |
| **Dialog Message**  **(Description) Condition** | | |  | | |
| **Current Dialog Message**  **(Description)** | | |  | | |
| **Modified Dialog Message**  **(Description) (Changes are in bold)** | | |  | | |

**6.2.2.3.30. Help Frame**

**Table 49: Help Frame**

**Help Frame Description**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Help Frame** |  |  | **Description** |  |
| **Help Frame Text** | | | N/A | | |
| **Enhancement Category** | | | New Modify Delete No Change | | |
| **Help Frame Text Calling**  **Mechanism** | | |  | | |

|  |  |  |
| --- | --- | --- |
|  | **Current Help Frame Text** |  |
|  | | |

|  |  |  |
| --- | --- | --- |
|  | **Modified Help Frame Text (Changes are in bold)** |  |
|  | | |

**6.2.2.3.31. HL7 Application Parameter**

There is no HL-7 messaging in Patient Statement Enhancements (PSE) Discrepancies (Increment

1, Phase 1).

**Table 50 : HL7 Application Parameter**

|  |  |
| --- | --- |
| **HL7 Application**  **Parameter Name** | **Description: N/A** |
| **Enhancement Category** | New Modify Delete No Change |
| **Application Status** | Active Inactive Active Inactive |

**Enhancement Category Current Modified**

**Facility Name**

**Country Code**

**HL7 Field Separator**

**HL7 Encoding Characters**

**Mail Group**

**6.2.2.3.32. HL7 Logical Link**

**Table 51: HL7 Logical Link**

**HL7 Logical Link Description**

**HL7 Logical Link**

**Parameter Name**

**N/A**

**Enhancement Category New Modify Delete No Change**

**Enhancement Category Current Modified**

**Enhancement Category Current Modified**

**Node Institution Domain Autostart Queue Size LLP Type**

**6.2.2.3.33. COTS Interface**

There are no COTS interfaces in Patient Statement Enhancements (PSE) Discrepancies

(Increment 1, Phase 1).

**Table 52: COTS Interface**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **COTS Interface** |  |  | **Description** |  |
| **Communication Method** | | | N/A | | |
| **Application Interface** | | |  | | |

**6.3. Network Detailed Design**

N/A - Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1) addresses balance discrepancy remediation and will be accomplished within the framework of VistA Accounts Receivable at the local VA sites. Therefore, no significant impact on network design or resources is expected.

**6.4. Security and Privacy**

The following Security and Privacy messures were implemented in Patient Statement

Enhancements (PSE) Discrepancies (Increment 1, Phase 1).

**6.4.1. Security**

The PRCA AUTOCRCT PGM was created and will be assigned to the appropriate Account Receivable personnel so that only authorized users can run the Patient Statement Auto- Correction Program.

**6.4.2. Privacy**

The Auto-Correct Patient Discrepancy Report has been coded so that when the output is sent to a MailMan message, that message is flagged so that it can’t be forwarded outside of the secured VA network.

**6.5. Service Oriented Architecture / ESS Detailed Design**

N/A

**6.5.1. Service Description for <Consumed Service Name>**

N/A

**6.5.2. Service Design for <Provided Service Name>**

There are no Severice Designs for Patient Statement Enhancements (PSE) Discrepancies

(Increment 1, Phase 1).

**6.5.2.1. Introduction**

N/A

**6.5.2.1.1. Purpose and Scope of Service**

N/A

**6.5.2.1.2. Links to Other Documents**

N/A

**6.5.2.2. Service Details**

N/A

**6.5.2.2.1. Service Identification**

**Table 53: Service Attribute and Value**

**Service Attribute Value** Overview N/A Version

Latest Status Service Type Architecture Layer Business Domain Service Domain

Business Organization and Owner

Technical Organization and Owner

Development Organization and

Owner

Support Organization and Owner

Target Consumer Organization(s)

and Owner(s)

**6.5.2.2.2. Service Versions**

**Table 54 : Service Versions**

|  |  |  |
| --- | --- | --- |
| **Version Numbers** | **Current Status of**  **Version** | **A Brief Description of the change implemented in that version** |
| N/A |  |  |
|  |  |  |
|  |  |  |

**6.5.2.2.3. Summary of Design and Platform Details**

N/A

**6.5.2.2.3.1. SOA Pattern(s) Implemented**

N/A

**6.5.2.2.3.2. COTS Platform vendor names and versions for hosting platform**

N/A

**6.5.2.3. Dependencies**

N/A

**6.5.2.4. Service Design Details**

N/A

**6.5.2.4.1. Interface Technical Specs**

N/A

**6.5.2.4.1.1. Service Invocation Type**

N/A

**6.5.2.4.1.2. Service Interface Type**

N/A

**6.5.2.4.1.3. Service Name**

N/A

**6.5.2.4.1.4. Interface**

N/A

**6.5.2.4.1.5. End Points**

N/A

**6.5.2.4.1.6. Operations or Methods**

**Table 55: Operations or Methods**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Operation Name** | **Inputs** | **Outputs** | **Transactional Qualities if relevant (Updating?, Atomic?, Can participate in transaction?)** | **Pre and Post Conditions** | **Exception (s)** |
| N/A |  |  |  |  |  |
|  |  |  |  |  |  |

**6.5.2.4.1.7. Message Schemas**

N/A

**6.5.2.4.2. Information Model**

N/A

**6.5.2.4.2.1. Class Diagram and Description of Entities Involved**

N/A

**6.5.2.4.2.2. Mappings from ELDM to Standards Based Schemas**

N/A

**6.5.2.4.3. Behavior Model (AKA Use Case Realization)**

N/A

**6.5.2.4.3.1. Use Cases (Use Case Model)**

N/A

**6.5.2.4.3.2. Interaction Diagrams**

N/A

**6.5.2.5. Gap Analysis**

**Table 56 : Gap Analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Design**  **Elements**  **Policies / SLD**  **elements etc.↓** | **Design**  **Element A** | **Design**  **Element**  **B** | **Design**  **Element**  **C** | **Comment for non-conformance** |
| N/A |  |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Design**  **Elements**  **Policies / SLD**  **elements etc.↓** | **Design**  **Element A** | **Design**  **Element**  **B** | **Design**  **Element**  **C** | **Comment for non-conformance** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**6.5.2.5.1. Variances from Enterprise Target Architecture**

N/A

**6.5.2.5.2. Variances from SLDs**

N/A

**6.5.2.5.3. Variances from Standards and Policies**

N/A

**6.5.2.5.4. Justification for Exceptions and Mitigation**

N/A

**7. External System Interface Design**

There are no External System Interface Design changes for Patient Statement Enhancements

(PSE) Discrepancies (Increment 1, Phase 1).

**7.1. Interface Architecture**

N/A

**7.2. Interface Detailed Design**

N/A

**8. Human-Machine Interface**

There are no Human-Machine Interface changes for Patient Statement Enhancements (PSE) Discrepancies (Increment 1, Phase 1).

**8.1. Interface Design Rules**

N/A

**8.2. Inputs**

N/A

**8.3. Outputs**

N/A

**8.4. Navigation Hierarchy**

N/A

**8.4.1. Screen [x.1] N/A**

**8.4.2. Screen [x.2] N/A**

**8.4.3. Screen [x.3] N/A**

**9. Attachment A – Approval Signatures**

This section is used to document the approval of the System Design Document. The review should be conducted face to face where signatures can be obtained ‘live’ during the review. If unable to conduct a face-to-face meeting then it should be held via LiveMeeting and concurrence captured during the meeting. The Scribe should add /es/name by each position cited. Example provided below.

The Business Sponsor and Project Manager are required to sign.

Signed: Jerry Battles Date: Business Sponsor

02/07/2017

Signed: Ray Pietrzak Date:

Project Manager

**A. Additional Information**

**A.1. Identification of Technology and Standards**

**A.2. Constraining Policies, Directives and Procedures**

**A.3. Requirements Traceability Matrix**

**A.4. Packaging and Installation**

**A.5. Design Metrics**

**Template Revision History**

**Date Version Description Author**

June 2015 2.10 Changed Heading 1 default setting to eliminate page break before

May 2015 2.9 Edited for Section 508 conformance and remediated with Common Look Office tool

February 2015 2.8 Incorporates revisions from PMAS Reform Lockdown; namely removing requirements for information that can be obtained from other PMAS authoritative sources.

Process Management

Process Management

Andrew Slawter, Office of Technology Strategies

September

2014

2.7 Adds Enterprise Shared Services terms and requires AERB Compliance Certificate attachment.

Process Management

August 2014 2.6 Signature block update authorized by

AERB CR\_018934

March 2014 2.5 Section 508 repairs to new version approved by AERB Chair approved

August 2013 2.3 Replaced the Service Architecture sub- section with new sub-sections for consumed and provided services. Also applied miscellaneous feedback from VA team.

Process Management

Process Management

ASD Enterprise Shared Services (ESS) Work Group

June 2013 1.3 Upgraded to MS Office 2007-2010 format Process Management

June 2013 1.2 Address inconsistencies in Section 3, Conceptual Design, Correct headings

March 2013 1.1 Formatted to documentation standards and edited for Section 508 conformance

Process Management

Process Management

January 2013 1.0 Initial Document PMAS Business

Office

See TOGAF® 9.1, Part III: ADM Guidelines & Techniques, Gap Analysis on TOGAF website at <http://pubs.opengroup.org/architecture/togaf9-doc/arch/chap27.html>