

# **Community Care (CC) Integrated Billing (IB) and Accounts Receivable (AR)**

## **Integrated Billing Patch IB\*2.0\*618**

### **Deployment, Installation, Back-Out, and Rollback Guide**



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## Revision History

Date	Version	Description	Author
08/01/2019	1.0	Initial document creation	AbleVets

## Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect particulars of these procedures at a single or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan is required to be completed prior to Critical Decision Point #2 (CD #2), with the expectation that it will be updated throughout the lifecycle of the project for each build, as needed.

# Table of Contents

- 1. Introduction .....5**
  - 1.1 Purpose ..... 5
  - 1.2 Dependencies ..... 5
  - 1.3 Constraints ..... 5
- 2. Roles and Responsibilities..... 5**
- 3. Deployment..... 6**
  - 3.1 Timeline..... 6
  - 3.2 Site Readiness Assessment ..... 6
    - 3.2.1 Deployment Topology (Targeted Architecture)..... 6
    - 3.2.2 Site Information (Locations, Deployment Recipients)..... 6
    - 3.2.3 Site Preparation ..... 7
  - 3.3 Resources ..... 7
    - 3.3.1 Hardware ..... 7
    - 3.3.2 Software..... 7
    - 3.3.3 Communications..... 7
      - 3.3.3.1 Deployment/Installation/Back-Out Checklist ..... 7
- 4. Installation ..... 8**
  - 4.1 Pre-installation and System Requirements..... 8
  - 4.2 Platform Installation and Preparation ..... 8
  - 4.3 Download and Extract Files..... 8
  - 4.4 Database Creation ..... 8
  - 4.5 Installation Scripts ..... 8
  - 4.6 Cron Scripts ..... 8
  - 4.7 Access Requirements and Skills Needed for the Installation..... 8
  - 4.8 Installation Procedure ..... 9
  - 4.9 Installation Verification Procedure ..... 9
  - 4.10 System Configuration ..... 9
  - 4.11 Database Tuning..... 10
- 5. Back-Out Procedure ..... 10**
  - 5.1 Back-Out Strategy ..... 10
  - 5.2 Back-Out Considerations ..... 10
    - 5.2.1 Load Testing ..... 10
    - 5.2.2 User Acceptance Testing ..... 11
  - 5.3 Back-Out Criteria ..... 11
  - 5.4 Back-Out Risks ..... 11
  - 5.5 Authority for Back-Out..... 11

5.6	Back-Out Procedure .....	11
5.7	Back-out Verification Procedure .....	12
<b>6.</b>	<b>Rollback Procedure .....</b>	<b>12</b>
6.1	Rollback Considerations .....	12
6.2	Rollback Criteria .....	12
6.3	Rollback Risks .....	12
6.4	Authority for Rollback.....	13
6.5	Rollback Procedure.....	13
6.6	Rollback Verification Procedure .....	19

# 1. Introduction

This document describes how to deploy and install the Community Care Integrated Billing Enhancements patch IB\*2.0\*618 as well as how to back-out the product and rollback to a previous version or data set. This document is a companion to the project charter and management plan for this effort.

## 1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom the Community Care Integrated Billing Enhancements patch IB\*2.0\*618 will be deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The plan also identifies resources, communications plan, and rollout schedule. Specific instructions for installation, back-out, and rollback are included in this document.

## 1.2 Dependencies

The following patches must be installed prior to installing IB\*2.0\*618:

- IB\*2.0\*433
- IB\*2.0\*449
- IB\*2.0\*516
- IB\*2.0\*568
- IB\*2.0\*604
- IB\*2.0\*614
- IB\*2.0\*616
- PRCA\*4.5\*338

## 1.3 Constraints

This product is intended for a fully patched VistA system.

# 2. Roles and Responsibilities

**Table 1: Deployment, Installation, Back-out, and Rollback Roles and Responsibilities**

Team	Phase / Role	Tasks
Health Product Support	Deployment	Plan and schedule deployment (including orchestration with vendors)
Health Product Support and existing local VAMC and CPAC processes	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.
Health Product Support and VIP Release Agent	Deployment	Test for operational readiness

<b>Team</b>	<b>Phase / Role</b>	<b>Tasks</b>
Health Product Support	Deployment	Execute deployment
Designated VistA patch installer for this package	Installation	Plan and schedule installation
Designated VistA patch installer for this package and VIP Release Agent	Installation	Ensure authority to operate and that certificate authority security documentation is in place
CPAC Revenue Analysts	Installations	Coordinate training
Designated VistA patch installer for this package, and CPAC Revenue Analysts, Health Product Support, and Development Team	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)
Product Development Team during warranty period, afterwards (software only) Tier 1, Tier 2, Tier 3 / VistA Maintenance	Post Deployment	Hardware, Software and System Support

### **3. Deployment**

The deployment is planned as a simultaneous national rollout to all 130 VistA production instances. This section provides the schedule and milestones for the deployment.

#### **3.1 Timeline**

The deployment and installation are scheduled to run for 30 days starting with the National Release date and concluding with the National Compliance date by which time all 130 VistA production instances should have the patch installed.

#### **3.2 Site Readiness Assessment**

This section discusses the locations that will receive the Community Care Integrated Billing Enhancements patch IB\*2.0\*618 deployment.

##### **3.2.1 Deployment Topology (Targeted Architecture)**

N/A for a VistA patch.

##### **3.2.2 Site Information (Locations, Deployment Recipients)**

All 130 VistA production instances. The IOC test sites for this project were REDACTED

### 3.2.3 Site Preparation

None required other than prerequisite patch installation as described in the patch description and in the Forum NPM.

## 3.3 Resources

The Community Care Integrated Billing Enhancements patch IB\*2.0\*618 is a VistA patch and does not require any special or specific resources other than an existing and functional VistA system.

### 3.3.1 Hardware

There is no specific hardware required other than that which already hosts the VistA system. This is a software enhancement that will not require additional hardware.

### 3.3.2 Software

There is no specific software required other than that which already hosts the VistA system.

### 3.3.3 Communications

When VistA patches are nationally released from the Forum National Patch Module (NPM) the patch is automatically sent to the targeted VistA systems nationwide. When VistA patches are installed at a site, a notification is sent back to the NPM to track which sites have and have not installed a patch. This is part of the standard VistA patch notifications and communications protocols.

#### 3.3.3.1 Deployment/Installation/Back-Out Checklist

The Release Management team will deploy the patch IB\*2\*618, which is tracked in the NPM in Forum, nationally to all VAMCs. Forum automatically tracks the patches as they are installed in the different VAMC production systems as described in the previous section. One can run a report in Forum to identify when the patch was installed in the VistA production at each site, and by whom. A report can also be run, to identify which sites have not installed the patch in their VistA production system as of that moment in time.

Therefore, this information does not need to be manually tracked in the chart below. The table is included below if manual tracking is desired and because it is part of the VIP document template.

**Table 2: Deployment/Installation/Back-Out Checklist**

Activity	Day	Time	Individual who completed task
Deploy	TBD	TBD	TBD
Install	TBD	TBD	TBD
Back-Out	TBD	TBD	TBD

## **4. Installation**

### **4.1 Pre-installation and System Requirements**

This product is a VistA patch. The only pre-installation and system requirements for deployment and installation of this patch are the prerequisite patches which need to be installed before this patch can be installed.

### **4.2 Platform Installation and Preparation**

This product is a VistA patch. There are five patches for this project and they must be installed in the following order:

1. PRCA\*4.5\*338
2. IB\*2.0\*618
3. PRCA\*4.5\*351
4. IB\*2.0\*645
5. IB\*2.0\*646

Sites should install patches into the test/mirror/pre-prod accounts before the production account as is the normal VistA patch installation standard convention.

When installing any VistA patch, sites should utilize the option “Backup a Transport Global” in order to create a backup message of any routines exported with this patch.

Post-installation checksums are found in the patch description and in Forum NPM.

### **4.3 Download and Extract Files**

N/A for this VistA patch.

### **4.4 Database Creation**

N/A for this VistA patch.

### **4.5 Installation Scripts**

N/A for this VistA patch.

### **4.6 Cron Scripts**

N/A for this VistA patch.

### **4.7 Access Requirements and Skills Needed for the Installation**

To install this VistA patch, the patch installer must be an active user on the VistA system and have access to the VistA menu option “Kernel Installation & Distribution System” [XPD MAIN] and have VistA security keys XUPROG and XUPROGMODE. Knowledge on how to install VistA patches using the items on this menu option is also a required skill.

## 4.8 Installation Procedure

### Installation Instructions

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This patch may be installed with users on the system although it is recommended that it be installed during non-peak hours to minimize potential disruption to users. This patch should take less than 5 minutes to install.

1. Choose the PackMan message containing this patch.
2. Choose the INSTALL/CHECK MESSAGE PackMan option.
3. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options:
  - a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.
  - b. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, DD's, templates, etc.).
  - c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.
4. To Install the Patch, from the Installation Menu, select the Install Package(s) option and choose the patch to install. When prompted for the INSTALL NAME, enter the patch IB\*2.0\*618.
5. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//, enter 'NO'
6. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//, enter 'NO'
7. If prompted Delay Install (Minutes): (0 60): 0// respond 0.

## 4.9 Installation Verification Procedure

Verify completed installation by comparing the post-install routine checksums against the published checksums in the patch description and in Forum NPM.

Another verification method is to ensure that the build components as listed in the patch description have been correctly installed onto the target VistA system.

## 4.10 System Configuration

N/A for this VistA patch.

## 4.11 Database Tuning

N/A for this VistA patch.

# 5. Back-Out Procedure

Back-Out pertains to a return to the last known good operational state of the software and appropriate platform settings.

## 5.1 Back-Out Strategy

The back-out plan for VistA applications is complex and is not able to be a “one size fits all” strategy. The general strategy for VistA software back-out is to repair the code with a follow-up patch. The development team recommends that sites log a ticket if it is a nationally released patch; otherwise, the site should contact the Enterprise Program Management Office (EPMO) directly for specific solutions to their unique problems.

Although it is unlikely due to care in collecting approved requirements, SQA/PBM review and multiple testing stages (Primary Developer, Secondary Developer, and Component Integration Testing) a back-out decision due to major issues with this patch could occur during site Mirror Testing, Site Production Testing or after National Release to the Field. The strategy would depend on during which of these stages the decision is made. If during Site Production Testing, unless the patch produces catastrophic problems, the normal VistA response would be for a new version of the test patch correcting defects to be produced, retested and upon successfully passing development team testing would be resubmitted to the site for testing. This project, however, has prepared a set of back-out patch instructions if necessary, as in the case that the project is canceled, or the implemented design is found to be so wrong and detrimental to the site’s delivery of services to Veterans that the software must be removed. If the defects were not discovered until after national release but during the 30 days support period, a new patch will be entered into the National Patch Module on Forum and go through all the necessary milestone reviews etc. as an emergency patch. After 30 days, the VistA Maintenance Program would produce the new patch, either to correct the defective components or to back-out.

## 5.2 Back-Out Considerations

It is necessary to determine if a wholesale back-out of the patch IB\*2.0\*618 is needed or if a better course of action is to correct through a new version of the patch (if prior to national release) or through a subsequent patch aimed at specific areas modified or affected by the original patch (after national release). A wholesale back-out of the patch will still require a new version (if prior to national release) or a subsequent patch (after national release). If the back-out is post-release of patch IB\*2\*618, this patch should be assigned status of “Entered in Error” in Forum’s NPM.

### 5.2.1 Load Testing

N/A for this VistA patch.

## 5.2.2 User Acceptance Testing

This is detailed in the User Stories in Rational Tools Management.

## 5.3 Back-Out Criteria

The decision to back-out this VistA patch will be made by Health Product Support, CPAC Revenue System Management staff, and the Development Team. Criteria to be determined based on separate and unique factors and will be evaluated upon post-patch installation use of the product.

## 5.4 Back-Out Risks

N/A for this VistA patch.

## 5.5 Authority for Back-Out

Back-out authorization will be determined by a consensus consisting of the following individuals:

- Health Product Support Management –
  - REDACTED REDACTED
  - REDACTED REDACTED
  - REDACTED REDACTED
- Release Managers –
  - REDACTED REDACTED
- CPAC Revenue System Managers –
  - REDACTED REDACTED
  - REDACTED REDACTED
- Development Team –
  - REDACTED REDACTED
  - REDACTED REDACTED

## 5.6 Back-Out Procedure

During the VistA Installation Procedure of the KIDS build, the installer can back up the modified routines using the ‘Backup a Transport Global’ action. The installer can restore the routines using the MailMan message that were saved prior to installing the patch. The back-out procedure for global, data dictionary and other VistA components is more complex and will require issuance of a follow-up patch to ensure all components are properly removed. All software components (routines and other items) must be restored to their previous state at the same time and in conjunction with restoration of the data. This back-out may need to include a database cleanup process.

Please contact the EPMO for assistance if the installed patch that needs to be backed out contains anything at all besides routines before trying to back-out the patch. If the installed patch that

needs to be backed out includes a pre or post install routine, please contact the EPMO before attempting the back-out.

From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following option. When prompted for the INSTALL enter the patch #.

- a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.

Locate the Transport Global Backup message which should have been created as a part of the patch installation and restore the software from that Packman message containing the pre-installation version of the routines. If this message was not created or cannot be found, then contact Health Product Support for help in generating a new Packman message from another source.

## **5.7 Back-out Verification Procedure**

The success of the back-out can be verified by verifying checksums for the routines removed to validate that they reflect the nationally released checksums.

## **6. Rollback Procedure**

Rollback pertains to data associated with this patch.

### **6.1 Rollback Considerations**

It is necessary to determine if a wholesale rollback of the data associated with patch IB\*2.0\*618 is needed or if a better course of action is to correct the data through a new version of the patch (if prior to national release) or through a subsequent patch aimed at specific areas modified or affected by the original patch (after national release). A wholesale rollback of the data associated with this patch will still require a new version (if prior to national release) or a subsequent patch (after national release).

### **6.2 Rollback Criteria**

The decision to rollback the data associated with this VistA patch will be made by Health Product Support, CPAC Revenue System Management staff, and the Development Team. Criteria to be determined based on separate and unique factors and will be evaluated upon post-patch installation use of the product.

### **6.3 Rollback Risks**

Rollback risks include being able to restore the database to what it looked before this patch was installed without introducing database corruption. For example, new rate types are being added by this patch into the RATE TYPE file (#399.3). This is a core IB dictionary file. If subsequent bills are created for one of the new rate types, and it is decided that a full rollback of this data is needed, then a decision needs to be made as to what to do with new bills with these new rate types.

## 6.4 Authority for Rollback

Rollback of the data associated with this patch will be determined by a consensus consisting of the following individuals:

- Health Product Support Management –
  - REDACTED REDACTED
  - REDACTED REDACTED
  - REDACTED REDACTED
- Release Managers –
  - REDACTED REDACTED
- CPAC Revenue System Managers –
  - REDACTED REDACTED
  - REDACTED REDACTED
- Development Team –
  - REDACTED REDACTED
  - REDACTED REDACTED

## 6.5 Rollback Procedure

There are several areas to consider for a full and complete rollback of the data associated with this patch. It may be determined that it is acceptable to leave some of this data in place to avoid risk of database corruption while removing other data associated with this patch.

The following list contains data in the VistA database which was altered by the installation of this patch. A full and complete rollback of this data would involve deleting all this data. For every item in this list, care must be taken to recognize if any other data files point to these new entries in these dictionary files. The FileMan delete action will prompt the user as to what should be done in these cases:

- Nineteen new Rate Types are added in the RATE TYPE file (399.3)
  - CC WORKERS' COMP
  - CC NO-FAULT AUTO
  - CC TORT FEASOR
  - CHOICE WORKERS' COMP
  - CHOICE NO-FAULT AUTO
  - CHOICE TORT FEASOR
  - CCN WORKERS' COMP
  - CCN NO-FAULT AUTO
  - CCN TORT FEASOR
  - CC REIMB INS
  - CCN REIMB INS
  - CC MTF REIMB INS
  - DOD DISABILITY EVALUATION
  - DOD SPINAL CORD INJURY
  - DOD TRAUMATIC BRAIN INJURY
  - DOD BLIND REHABILITATION
  - TRICARE DENTAL
  - TRICARE PHARMACY

- CHOICE REIMB INS
- One Rate Type is inactivated in the RATE TYPE file (399.3)
  - FEE REIMB INS
- Sixty-four new Rate Schedule/Rate Type combinations in the RATE SCHEDULE file (#363)
 

<ul style="list-style-type: none"> <li>○ CCC-NF-INPT^CHOICE NO-FAULT AUTO^1</li> <li>○ CCC-NF-SNF^CHOICE NO-FAULT AUTO^1^SKILLED NURSING</li> <li>○ CCC-NF-OPT^CHOICE NO-FAULT AUTO^3</li> <li>○ CCC-NF-RX^CHOICE NO-FAULT AUTO^3</li> <li>○ CC-NF-INPT^CC NO-FAULT AUTO^1</li> <li>○ CC-NF-SNF^CC NO-FAULT AUTO^1^SKILLED NURSING</li> <li>○ CC-NF-OPT^CC NO-FAULT AUTO^3</li> <li>○ CC-NF-RX^CC NO-FAULT AUTO^3^</li> <li>○ CCN-NF-INPT^CCN NO-FAULT AUTO^1</li> <li>○ CCN-NF-SNF^CCN NO-FAULT AUTO^1^SKILLED NURSING</li> <li>○ CCN-NF-OPT^CCN NO-FAULT AUTO^3</li> <li>○ CCN-NF-RX^CCN NO-FAULT AUTO^3</li> <li>○ CCC-RI-INPT^CHOICE REIMB INS^1</li> <li>○ CCC-RI-SNF^CHOICE REIMB INS^1^SKILLED NURSING</li> <li>○ CCC-RI-OPT^CHOICE REIMB INS^3</li> </ul>	<ul style="list-style-type: none"> <li>○ CC-TF-INPT^CC TORT FEASOR^1</li> <li>○ CC-TF-SNF^CC TORT FEASOR^1^SKILLED NURSING</li> <li>○ CC-TF-OPT^CC TORT FEASOR^3</li> <li>○ CC-TF-RX^CC TORT FEASOR^3</li> <li>○ CCN-TF-INPT^CCN TORT FEASOR^1</li> <li>○ CCN-TF-SNF^CCN TORT FEASOR^1^SKILLED NURSING</li> <li>○ CCN-TF-OPT^CCN TORT FEASOR^3</li> <li>○ CCN-TF-RX^CCN TORT FEASOR^3</li> <li>○ CCC-WC-INPT^CHOICE WORKERS' COMP^1</li> <li>○ CCC-WC-SNF^CHOICE WORKERS' COMP^1^SKILLED NURSING</li> <li>○ CCC-WC-OPT^CHOICE WORKERS' COMP^3</li> <li>○ CCC-WC-RX^CHOICE WORKERS' COMP^3</li> <li>○ CC-WC-INPT^CC WORKERS' COMP^1</li> <li>○ CC-WC-SNF^CC WORKERS' COMP^1^SKILLED NURSING</li> <li>○ CC-WC-OPT^CC WORKERS' COMP^3</li> </ul>
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- CCC-RI-RX^CHOICE REIMB INS^3
- CC-RI-INPT^CC REIMB INS^1
- CC-RI-SNF^CC REIMB INS^1^SKILLED NURSING
- CC-RI-OPT^CC REIMB INS^3
- CC-RI-RX^CC REIMB INS^3
- CCN-RI-INPT^CCN REIMB INS^1
- CCN-RI-SNF^CCN REIMB INS^1^SKILLED NURSING
- CCN-RI-OPT^CCN REIMB INS^3
- CCN-RI-RX^CCN REIMB INS^3
- CC-DOD-INPT^CC MTF REIMB INS^1^INPATIENT
- CC-DOD-SNF^CC MTF REIMB INS^1^SKILLED NURSING
- CC-DOD-OPT^CC MTF REIMB INS^3^OUTPATIENT VISIT
- CC-DOD-RX^CC MTF REIMB INS^3
- CCC-TF-INPT^CHOICE TORT FEASOR^1
- CCC-TF-SNF^CHOICE TORT FEASOR^1^SKILLED NURSING
- CC-WC-RX^CC WORKERS' COMP^3
- CCN-WC-INPT^CCN WORKERS' COMP^1
- CCN-WC-SNF^CCN WORKERS' COMP^1^SKILLED NURSING
- CCN-WC-OPT^CCN WORKERS' COMP^3
- CCN-WC-RX^CCN WORKERS' COMP^3
- DOD-DIS EXAM-OPT^DOD DISABILITY EVALUATION^3^OUTPATIENT VISIT
- DOD-SCI-INPT^DOD SPINAL CORD INJURY^1^INPATIENT
- DOD-SCI-OPT^DOD SPINAL CORD INJURY^3^OUTPATIENT VISIT
- DOD-SCI-SNF^DOD SPINAL CORD INJURY^1^SKILLED NURSING
- DOD-TBI-INPT^DOD TRAUMATIC BRAIN INJURY^1^INPATIENT
- DOD-TBI-OPT^DOD TRAUMATIC BRAIN INJURY^3^OUTPATIENT VISIT
- DOD-TBI-SNF^DOD TRAUMATIC BRAIN INJURY^1^SKILLED NURSING
- DOD-BR-INPT^DOD BLIND REHABILITATION^1^INPATIENT
- DOD-BR-OPT^DOD BLIND REHABILITATION^3^OUTPATIENT VISIT
- DOD-BR-SNF^DOD BLIND REHABILITATION^1^SKILLED NURSING

- CCC-TF-OPT^CHOICE TORT FEASOR^3
- CCC-TF-RX^CHOICE TORT FEASOR^3
- TR-DENTAL^TRICARE DENTAL^3^OUTPATIENT VISIT
- TR-PHARM^TRICARE PHARMACY^3
- Eighty-four new Action Types in the IB ACTION TYPE file (#350.1)
  - CHOICE (INPT) CANCEL
  - CHOICE (INPT) NEW
  - CHOICE (INPT) UPDATE
  - CHOICE (PER DIEM) CANCEL
  - CHOICE (PER DIEM) NEW
  - CHOICE (PER DIEM) UPDATE
  - CHOICE (OPT) CANCEL
  - CHOICE (OPT) NEW
  - CHOICE (OPT) UPDATE
  - CHOICE (RX) CANCEL
  - CHOICE (RX) NEW
  - CHOICE (RX) UPDATE
  - CC (INPT) CANCEL
  - CC (INPT) NEW
  - CC (INPT) UPDATE
  - CC (PER DIEM) CANCEL
  - CC (PER DIEM) NEW
  - CC (PER DIEM) UPDATE
  - CC (OPT) CANCEL
  - CC (OPT) NEW
  - CC (OPT) UPDATE
  - CC (RX) CANCEL
  - CC (RX) NEW
  - CC (RX) UPDATE
  - CCN (INPT) CANCEL
  - CCN (INPT) NEW
  - CC MTF (OPT) CANCEL
  - CC MTF (OPT) NEW
  - CC MTF (OPT) UPDATE
  - CC MTF (RX) CANCEL
  - CC MTF (RX) NEW
  - CC MTF (RX) UPDATE
  - LTC CC INPT CNH CANCEL
  - LTC CC INPT CNH NEW
  - LTC CC INPT CNH UPDATE
  - LTC CC INPT RESPITE CANCEL
  - LTC CC INPT RESPITE NEW
  - LTC CC INPT RESPITE UPDATE
  - LTC CC OPT ADHC CANCEL
  - LTC CC OPT ADHC NEW
  - LTC CC OPT ADHC UPDATE
  - LTC CC OPT RESPITE CANCEL
  - LTC CC OPT RESPITE NEW
  - LTC CC OPT RESPITE UPDATE
  - LTC CCN INPT CNH CANCEL
  - LTC CCN INPT CNH NEW
  - LTC CCN INPT CNH UPDATE
  - LTC CCN INPT RESPITE CANCEL
  - LTC CCN INPT RESPITE NEW
  - LTC CCN INPT RESPITE UPDATE
  - LTC CCN OPT ADHC CANCEL
  - LTC CCN OPT ADHC NEW

- CCN (INPT) UPDATE
- CCN (PER DIEM) CANCEL
- CCN (PER DIEM) NEW
- CCN (PER DIEM) UPDATE
- CCN (OPT) CANCEL
- CCN (OPT) NEW
- CCN (OPT) UPDATE
- CCN (RX) CANCEL
- CCN (RX) NEW
- CCN (RX) UPDATE
- CC MTF (INPT) CANCEL
- CC MTF (INPT) NEW
- CC MTF (INPT) UPDATE
- CC MTF (PER DIEM) CANCEL
- CC MTF (PER DIEM) NEW
- CC MTF (PER DIEM) UPDATE
- LTC CCN OPT ADHC UPDATE
- LTC CCN OPT RESPITE CANCEL
- LTC CCN OPT RESPITE NEW
- LTC CCN OPT RESPITE UPDATE
- LTC CHOICE INPT CNH CANCEL
- LTC CHOICE INPT CNH NEW
- LTC CHOICE INPT CNH UPDATE
- LTC CHOICE INPT RESPITE CANCEL
- LTC CHOICE INPT RESPITE NEW
- LTC CHOICE INPT RESPITE UPDATE
- LTC CHOICE OPT ADHC CANCEL
- LTC CHOICE OPT ADHC NEW
- LTC CHOICE OPT ADHC UPDATE
- LTC CHOICE OPT RESPITE CANCEL
- LTC CHOICE OPT RESPITE NEW
- LTC CHOICE OPT RESPITE UPDATE
- One new field is added to the IB ACTION TYPE file (350.1)
  - INACTIVE (.12)
- Twenty-four Action Types are inactivated in the IB ACTION TYPE file (#350.1)
  - DG FEE SERVICE (INPT) CANCEL
  - DG FEE SERVICE (INPT) UPDATE
  - DG FEE SERVICE (OPT) NEW
  - DG LTC FEE INPT CNH CANCEL
  - DG FEE SERVICE (INPT) NEW
  - DG FEE SERVICE (OPT) CANCEL
  - DG FEE SERVICE (OPT) UPDATE
  - DG LTC FEE INPT CNH NEW

- DG LTC FEE INPT CNH UPDATE
- DG LTC FEE INPT RESPITE NEW
- DG LTC FEE OPT ADHC CANCEL
- DG LTC FEE OPT ADHC UPDATE
- DG LTC FEE OPT RESPITE NEW
- FEE SERV INPT (PER DIEM) CANCEL
- FEE SERV INPT (PER DIEM) UPDATE
- FEE SERV NSC RX COPAY NEW
- DG LTC FEE INPT RESPITE CANCEL
- DG LTC FEE INPT RESPITE UPDATE
- DG LTC FEE OPT ADHC NEW
- DG LTC FEE OPT RESPITE CANCEL
- DG LTC FEE OPT RESPITE UPDATE
- FEE SERV INPT (PER DIEM) NEW
- FEE SERV NSC RX COPAY CANCEL
- FEE SERV NSC RX COPAY UPDATE
- Fifty-two new entries are added to the IB ACTION CHARGE file (350.2)
  - CHOICE (PER DIEM) NEW;FEE SERV INPT PER DIEM
  - CCN (PER DIEM) NEW;FEE SERV INPT PER DIEM
  - LTC CC INPT CNH NEW;FEE LTC INPT CNH
  - LTC CHOICE INPT CNH NEW;FEE LTC INPT CNH
  - LTC CCN INPT RESPITE NEW;FEE LTC INPT RESPITE
  - LTC CC OPT ADHC NEW;FEE LTC OPT ADHC
  - LTC CHOICE OPT ADHC NEW;FEE LTC OPT ADHC
  - LTC CCN OPT RESPITE NEW;FEE LTC OPT RESPITE
  - CHOICE (RX) CANCEL;FEE SERV RX1;1
  - CHOICE (RX) CANCEL;FEE SERV RX4;3
  - CC (PER DIEM) NEW;FEE SERV INPT PER DIEM
  - CC MTF (PER DIEM) NEW;FEE SERV INPT PER DIEM
  - LTC CCN INPT CNH NEW;FEE LTC INPT CNH
  - LTC CC INPT RESPITE NEW;FEE LTC INPT RESPITE
  - LTC CHOICE INPT RESPITE NEW;FEE LTC INPT RESPITE
  - LTC CCN OPT ADHC NEW;FEE LTC OPT ADHC
  - LTC CC OPT RESPITE NEW;FEE LTC OPT RESPITE
  - LTC CHOICE OPT RESPITE NEW;FEE LTC OPT RESPITE
  - CHOICE (RX) CANCEL;FEE SERV RX3;2
  - CHOICE (RX) NEW;FEE SERV RX1;1

- CHOICE (RX) NEW;FEE SERV RX3;2
- CHOICE (RX) UPDATE;FEE SERV RX1;1
- CHOICE (RX) UPDATE;FEE SERV RX4;3
- CC (RX) CANCEL;FEE SERV RX3;2
- CC (RX) NEW;FEE SERV RX1;1
- CC (RX) NEW;FEE SERV RX4;3
- CC (RX) UPDATE;FEE SERV RX3;2
- CCN (RX) CANCEL;FEE SERV RX1;1
- CCN (RX) CANCEL;FEE SERV RX4;3
- CCN (RX) NEW;FEE SERV RX3;2
- CCN (RX) UPDATE;FEE SERV RX1;1
- CCN (RX) UPDATE;FEE SERV RX4;3
- CCN (RX) CANCEL;FEE SERV RX3;2
- CCN (RX) NEW;FEE SERV RX1;1
- CCN (RX) NEW;FEE SERV RX4;3
- CCN (RX) UPDATE;FEE SERV RX3;2
- CC MTF (RX) CANCEL;FEE SERV RX1;1
- CC MTF (RX) CANCEL;FEE SERV RX4;3
- CC MTF (RX) NEW;FEE SERV RX1;1
- CC MTF (RX) NEW;FEE SERV RX4;3
- CC MTF (RX) UPDATE;FEE SERV RX3;2
- CHOICE (RX) NEW;FEE SERV RX4;3
- CHOICE (RX) UPDATE;FEE SERV RX3;2
- CC (RX) CANCEL;FEE SERV RX1;1
- CC (RX) CANCEL;FEE SERV RX4;3
- CC (RX) NEW;FEE SERV RX3;2
- CC (RX) UPDATE;FEE SERV RX1;1
- CC (RX) UPDATE;FEE SERV RX4;3
- CCN (RX) CANCEL;FEE SERV RX3;2
- CCN (RX) NEW;FEE SERV RX1;1
- CCN (RX) NEW;FEE SERV RX4;3
- CCN (RX) UPDATE;FEE SERV RX3;2
- CC MTF (RX) CANCEL;FEE SERV RX1;1
- CC MTF (RX) CANCEL;FEE SERV RX4;3
- CC MTF (RX) NEW;FEE SERV RX3;2
- CC MTF (RX) UPDATE;FEE SERV RX1;1
- CC MTF (RX) UPDATE;FEE SERV RX4;3

## 6.6 Rollback Verification Procedure

Verify that all the above data components have been removed from the system as described in the previous section.