Collaborative Terminology Tooling & Data Management (CTT&DM)

Native Domain Standardization (NDS)

Payers (IB*2.0*585)

Deployment, Installation, Back-Out, and Rollback Guide

Version 1.0

December 2017

Department of Veterans Affairs

Office of Information and Technology (OI&T)

Revision History

Date	Version	Description	Author
12/2017	1.0	Delivery to Customer.	N.B Functional Analyst ManTech Mission Solutions and Services

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1 Introduction

This document describes how to deploy and install Payers Native Domain Standardization patch IB*2.0*585, 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 Payers Native Domain Standardization patches IB*2.0*585 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 Payers Native Domain Standardization Integrated Billing patch IB*2.0*585 possesses a direct application dependency on the VistA Integrated Billing v2.0 application, and Health Data & Informatics (HDI) patch HDI*1.0*20.

Patch IB*2.0*585 possesses an indirect application dependency on Kernel patch XU*8.0*683. Enforcement of this dependency will be achieved by patch HDI*1.0*20's direct dependency on XU*8.0*683.

1.3 Constraints

Payers Native Domain Standardization patch IB*2.0*585 possesses the following constraints:

- The update to the VistA TYPE OF PLAN file (#355.1) shall not affect the current functionality or conflict with applications that utilize this file.
- The new MASTER TYPE OF PLAN file (#355.99) shall not affect the current functionality or conflict with applications that utilize this file.
- The fields being added to these files should only be visible on the back end and to those requesting the information, not the Graphical User Interface (GUI) applications used by clinicians within the VA.

2 Roles and Responsibilities

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

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
	OIT Regional Support	Deployment	Test for operational readiness	
	OIT Regional Support	Deployment	Execute deployment	
	OIT Regional Support	Installation	Plan and schedule installation	

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
	CTT&DM NDS Project Team	Installation	Coordinate training	
	OIT Regional Support	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	
	CTT&DM NDS Project Team	Post Deployment – Warranty Period	Hardware, Software and System Support	
	OIT Regional Support	Post Deployment – Warranty Period	Hardware, Software and System Support	

3 Deployment

The deployment is planned as a concurrent online rollout. During the initial operating capability (IOC) testing and after national release, patch IB*2.0*585 will be distributed via the FORUM Patch Module, and may be deployed at any site without regard to deployment status at other sites.

3.1 Timeline

The deployment and installation is scheduled to run for a period of thirty days, as depicted in the master deployment schedule.

3.2 Site Readiness Assessment

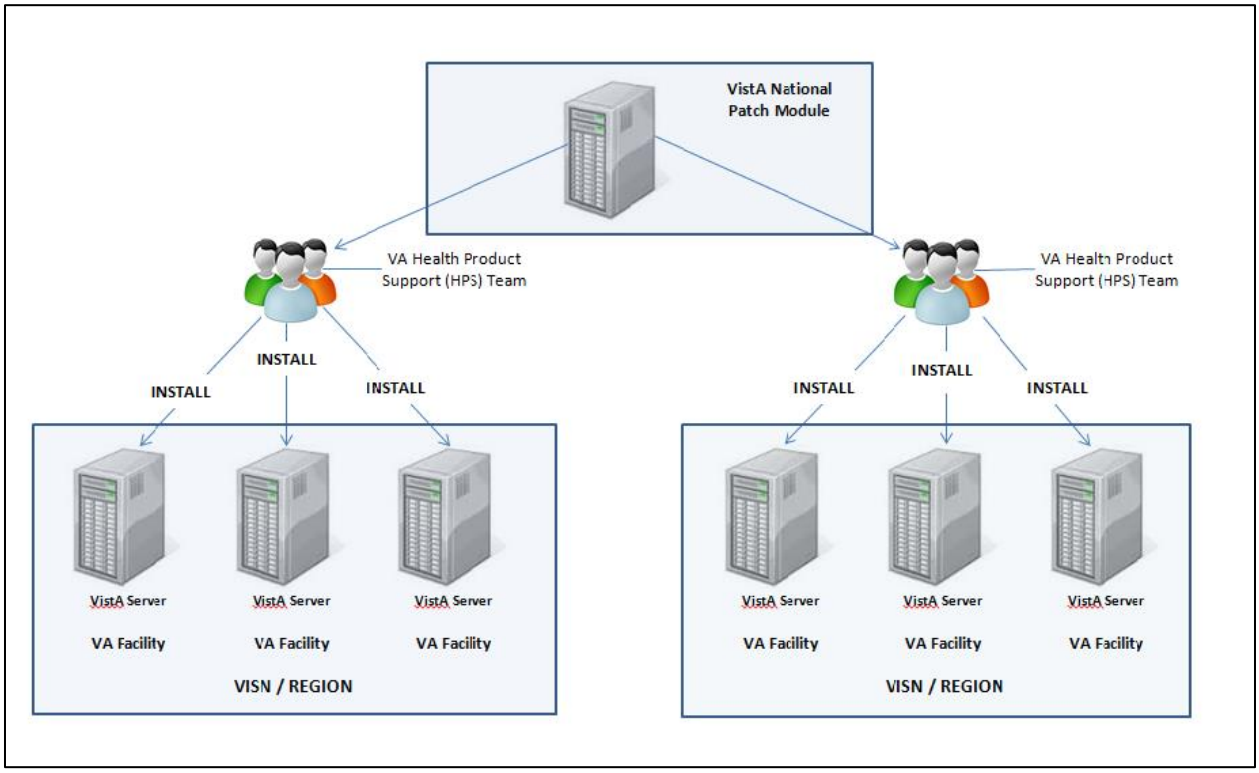
This section discusses the locations that will receive the CTT&DM NDS patch IB*2.0*585 deployment.

The IB*2.0*585 patch must be manually installed, or manually queued for installation, at each VistA instance at which it is deployed, using the standard Kernel Installation Distribution System (KIDS) software. The IB*2.0*585 patch should be installed at all VA VistA instances running the VistA Integrated Billing (IB) v2.0 application, and will update the M (Mumps) server software in each VistA instance's Integrated Billing namespace.

3.2.1 Deployment Topology (Targeted Architecture)

The deployment topology for the CTT&DM NDS patch IB*2.0*585 during IOC testing and after national release, is described below.

Figure 1: Patch IB*2.0*585 Topology



3.2.2 Site Information (Locations, Deployment Recipients)

During IOC testing, CTT&DM NDS patch IB*2.0*585 will be deployed at the following sites:

- Altoona, PA VAMC
- Manchester, NH VAMC

After national release, CTT&DM NDS patch IB*2.0*585 will be deployed at all sites running the VistA Integrated Billing v.2.0 application.

3.2.3 Site Preparation

No special preparation is required by the site prior to deployment.

3.3 Resources

Deployment of CTT&DM NDS patch IB*2.0*585 requires a fully patched VistA environment running the Integrated Billing v.2.0 application, as well as a Health Product Support (HPS) team member available to perform the patch installation.

3.3.1 Facility Specifics

There are no facility-specific deployment or installation features of CTT&DM NDS patch IB*2.0*585.

3.3.2 Hardware

CTT&DM NDS patch IB*2.0*585 requires no site hardware specifications during, or prior to, deployment.

3.3.3 Software

The following table describes software specifications required at each site prior to deployment.

Table 2: Software Specifications

Required Software	Make	Version	Configuration	Manufacturer	Other
IB*2.0*528	VistA	2.0	Standard	VHA	
HDI*1.0*20	VistA	1.0	Standard	VHA	
XU*8.0*683	VistA	8.0	Standard	VHA	Indirect dependency, required by HDI*1.0*20

Please see Table 1 in the Roles and Responsibilities section above for details about who is responsible for preparing the site to meet these software specifications.

3.3.4 Communications

No notifications are required for deployment of CTT&DM NDS patch IB*2.0*585.

3.3.4.1 Deployment/Installation/Back-Out Checklist

Table 3: Deployment/Installation/Back-Out Checklist

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

4 Installation

4.1 Pre-installation and System Requirements

4.1.1 Pre/Post Installation Overview

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 five minutes to install.

All the software components contained in patch IB*2.0*585 are new with this patch. Since restoring a backup or local save of the patch does not delete any software components, creating a backup or local save of the patch is not necessary. Backing out the patch's software components must be done by installing 'back-out' KIDS build IB*2.0*00585, created specifically to back-out all the software components installed by IB*2.0*585.

4.1.2 Patch Dependencies

Patches IB*2.0*528 and HDI*1.0*20 must be installed prior to installing this patch.

Knowledge of, and experience with, the Kernel Installation and Distribution System (KIDS) software is required. For more information, see Section V, Kernel Installation and Distribution System, in the Kernel 8.0 & Kernel Toolkit 7.3 Systems Management Guide.

4.1.3 Pre-Installation Instructions

There are no specific pre-installation instructions related to patch IB*2.0*585.

4.2 Platform Installation and Preparation

Patch IB*2.0*585 does not require any platform installation or preparation.

4.3 Download and Extract Files

CTT&DM NDS patch IB*2.0*585 is being released as a FORUM Patch via the Patch Module, therefore, the patch must be forwarded from FORUM to the destination site in the form of a PackMan message.

Documentation describing the new functionality introduced by this patch is available. The preferred method is to retrieve files from download.vista.med.va.gov. This transmits the files from the first available server. Sites may also elect to retrieve files directly from a specific server.

Sites may retrieve the software and/or documentation directly using Secure File Transfer Protocol (SFTP) from the ANONYMOUS.SOFTWARE directory at the following OI Field Offices:

Albany:	fo-albany.med.va.gov
Hines:	fo-hines.med.va.gov
Salt Lake City:	fo-slc.med.va.gov

The documentation will be in the form of Adobe Acrobat files. Documentation can also be found on the VA Software Documentation Library (VDL) at: VA VDL website.

Title:	Integrated Billing (IB) V. 2.0 Technical Manual
File Name:	ib_2_0_tm.doc ib_2_0_tm.pdf
FTP Mode:	Binary

Title:	Deployment, Installation, Back-Out, Rollback Guide IB*2.0*585
File Name:	ib_2_0_585_ig.doc ib_2_0_585_ig.pdf
FTP Mode:	Binary

4.4 Database Creation

No new database is required for the CTT&DM NDS patch IB*2.0*585.

4.5 Installation Scripts

No installation scripts are required for installation of CTT&DM NDS patch IB*2.0*585.

4.6 Cron Scripts

No CRON scripts are required for installation of CTT&DM NDS patch IB*2.0*585.

4.7 Access Requirements and Skills Needed for the Installation

Access to national VA network, as well as the local network of each site to receive CTT&DM NDS patch IB*2.0*585 is required to perform the installation, as well as authority to create and install patches.

Knowledge of, and experience with, the Kernel Installation and Distribution System (KIDS) software is required. For more information, refer back to the Kernel Installation and Distribution System link found in Section 4.1.2.

4.8 Installation Procedure

Installation Instructions:

1) Choose the PackMan message containing this patch.
2) Choose the INSTALL/CHECK MESSAGE PackMan option.
3) From Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following options. When prompted for the INSTALL NAME, enter the patch IB*2.0*585:
    a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup other changes such as data dictionaries (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) From the Installation Menu, select the Install Package(s) option and choose the patch to install.
5) When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.
6) When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.
7) When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.
8) If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

4.9 Installation Verification Procedure

The software components installed with CTT&DM NDS patch IB*2.0*585 are data dictionaries, options, and routines.

Successful installation of data dictionaries may be verified by running the FileMan List File Attributes option from the Data Dictionary Utilities menu after installation, for the following files and fields installed with the patch:

MASTER TYPE OF PLAN file (#355.99)

Fields: ALL

TYPE OF PLAN file (#355.1)

Fields: MASTER TYPE OF PLAN field (#15)

The new fields will print in the output if installation was successful.

Example, verification of TYPE OF PLAN file (#355.1) fields installed with IB*2.0*585 using FileMan Data Listing:

```
D P^DI

Select OPTION: DATA DICTIONARY UTILITIES

Select DATA DICTIONARY UTILITY OPTION: LIST FILE ATTRIBUTES

 START WITH What File: TYPE OF PLAN// 355.1   TYPE OF PLAN

                                  (63 entries)

      GO TO What File: PERSON CLASS// 355.1   TYPE OF PLAN

                                       (63 entries)

      Select SUB-FILE:

Select LISTING FORMAT: STANDARD// BRIEF

ALPHABETICALLY BY LABEL? No//   (No)

Start with field: FIRST// MASTER TYPE OF PLAN

Go to field: MASTER TYPE OF PLAN

DEVICE: ;;999  DEC Windows    Right Margin: 80// 132
```

Output, FileMan brief Data Listing verifying successful installation of TYPE OF PLAN file (#355.1) fields:

```
BRIEF DATA DICTIONARY #355.1 -- TYPE OF PLAN FILE              7/5/17    PAGE 1
SITE: TEST.CHEYENNE.MED.VA.GOV   UCI: CHEY59,ROU               (VERSION 2.0)
------------------------------------------------------------------------------

MASTER TYPE OF PLAN             355.1,15    POINTER
                                      TO MASTER TYPE OF PLAN FILE (#355.99)
```

Successful installation of options may be verified by searching for new option Master Type of Plan Report [IBMTOP RPT] using the FileMan utility INQUIRE TO FILE ENTRIES after installation. The new option will print in the output if installation was successful.

Example, verification of option installed with IB*2.0*585 by running FileMan utility INQUIRE TO FILE ENTRIES:

```
D P^DI
Select OPTION: INQUIRE TO FILE ENTRIES
Output from what File: OPTION//           (13268 entries)
Select OPTION NAME: IBMTOP ASSN      Master Type of Plan Association
Select OPTION NAME: IBMTOP MNU       Master Type of Plan Menu
Select OPTION NAME: IBMTOP RPT       Master Type of Plan Report
Another one:
Standard Captioned Output? Yes//   (Yes)
```

Output, FileMan Inquiry into OPTION file after successful installation:

```
NAME: IBMTOP ASSN
  MENU TEXT: Master Type of Plan Association
  TYPE: run routine                    CREATOR: HARRIS,JAMES
  PACKAGE: INTEGRATED BILLING
 DESCRIPTION:   This option is provided to allow TYPE OF PLAN file (#355.1)
 entries to be associated with entries from the MASTER TYPE OF PLAN file
 (#355.99). The MASTER TYPE OF PLAN file (#355.99) represents the Source of
 Payment Typology developed by the Public Health Data Standards Consortium
 (PHDSC).
  ROUTINE: EN^IBENDS

NAME: IBMTOP MNU                       MENU TEXT: Master Type of Plan Menu
  TYPE: menu                           CREATOR: HARRIS,JAMES
 DESCRIPTION:   This menu contains options designed to maintain TYPE OF PLAN
 file (#355.1) associations to the MASTER TYPE OF PLAN file (#355.99).  The
 MASTER TYPE OF PLAN file (#355.99) represents the Source of Payment Typology
 developed by the Public Health Data Standards Consortium (PHDSC).
ITEM: IBMTOP ASSN                      SYNONYM: ASSN
  DISPLAY ORDER: 1
ITEM: IBMTOP RPT                       SYNONYM: RPT
  DISPLAY ORDER: 2

NAME: IBMTOP RPT                       MENU TEXT: Master Type of Plan Report
  TYPE: run routine                    CREATOR: HARRIS,JAMES
```

```
 PACKAGE: INTEGRATED BILLING
DESCRIPTION:   This option prints the TYPE OF PLAN file (#355.1) entries and
their association to the MASTER TYPE OF PLAN file (#355.99).


The MASTER TYPE OF PLAN file (#355.99) represents the Source of Payment
Typology developed by the Public Health Data Standards Consortium (PHDSC).
 ROUTINE: EN^IBENDS1
```

Successful installation of routines may be verified by running the CHECK1^XTSUMBLD utility from the command line after installation. The new routines will print, along with checksum values, if installation was successful.

Example, verification of routines installed with IB*2.0*585 by running CHECK1^XTSUMBLD:

```
D CHECK1^XTSUMBLD
New CheckSum CHECK1^XTSUMBLD:
This option determines the current checksum of selected routine(s).
     Select one of the following:
          P         Package
          B         Build
Build from: Build
This will check the routines from a BUILD file.
Select BUILD NAME: IB*2.0*585       INTEGRATED BILLING
```

Output, CHECK1^XTSUMBLD after successful installation:

```
IBE585PO  value = 25508579
IBENDS    value = 13732020
IBENDS1   value = 88591296
done
```

4.10 System Configuration

No system configuration is required before or after deployment of CTT&DM NDS patch IB*2.0*585.

4.11 Database Tuning

No database tuning is required before or after deployment of CTT&DM NDS patch IB*2.0*585.

5 Back-Out Procedure

NOTE: Due to the complexity of this patch (because of the data dictionary changes), it is not recommended for back-out. However, in the event that a site decides to back-out this patch, the site should contact the National Service Desk (NSD) to submit a CA SDM ticket; the development team will assist with the process.

Perform the back-out procedure by installing KIDS build IB*2.0*00585 to delete the data dictionary fields and file, option, and routines installed by patch IB*2.0*585. The back-out is to be performed by persons with programmer-level access.

5.1 Back-Out Strategy

The Back-out Strategy is to install KIDS build IB*2.0*00585 to delete the data dictionary fields and file, option, and routines installed by patch IB*2.0*585.

5.2 Back-Out Considerations

The back-out should only be done in the event that the local facility management determines that the patch IB*2.0*585 is not appropriate for that facility, and should only be done as a last resort.

5.2.1 Load Testing

No load testing is required for patch IB*2.0*585.

5.2.2 User Acceptance Testing

N/A

5.3 Back-Out Criteria

Local Facility Management would need to determine patch IB*2.0*585 is not appropriate for their facility.

5.4 Back-Out Risks

By backing out IB*2.0*585, the local facility will lose interoperability capabilities of the Payers domain, specifically with regard to the TYPE OF PLAN file (#355.1).

5.5 Authority for Back-Out

The Local Facility Management has the authority to back-out patch IB*2.0*585.

5.6 Back-Out Procedure

NOTE: Due to the complexity of this patch (because of the data dictionary changes), it is not recommended for back-out. However, in the event that a site decides to back-out this patch, the site should contact the National Service Desk (NSD) to submit a CA SDM ticket; the development team will assist with the process.

Perform the back-out procedure by using KIDS build IB*2.0*00585 to delete the following components:

- MASTER TYPE OF PLAN field (#15) from the TYPE OF PLAN file (#355.1). This will also remove all data.
- MASTER TYPE OF PLAN file (#355.99). This will also remove all data.
- Routines IBENDS, IBENDS1, and IBE585PO.
- Options IBMTOP ASSN, IBMTOP RPT, IBMTOP MNU
- Input template IB TOPM.

The back-out is to be performed by persons with programmer-level access. The following should be executed from the programmers prompt.

The preferred back-out procedure is the installation of back-out build IB*2.0*00585.

5.6.1 Preferred Back-Out Method

Load KIDS build IB*2.0*00585:

1) Find and select the mailman message containing IB*2.0*00585.
2) Extract and Load PackMan message from the 'Enter message action' prompt:

Example, extract and load PackMan message IB*2.0*00585:

```
Enter message action (in IN basket): Ignore// Xtract KIDS
Select PackMan function: 6  INSTALL/CHECK MESSAGE


Line 3    Message #198245    Unloading KIDS Distribution   IB*2.0*00585
OK to continue with Load? NO// YES
Want to Continue with Load? YES//
Loading Distribution...


   IB*2.0*00585
```

3) From the Install Package(s) option in the Installation menu in the Kernel Installation and Distribution System [XPD MAIN] menu, install IB*2.0*00585.

Example, installation IB*2.0*00585 KIDS build.

```
Select Kernel Installation & Distribution System <TEST ACCOUNT> Option: INSTallation

Select Installation <TEST ACCOUNT> Option: INSTall Package(s)
Select INSTALL NAME: IB*2.0*00585      7/5/17@12:18:03
     => IB*2.0*00585 v1 Back-Out IB*2*585

This Distribution was loaded on Jul 05, 2017@12:18:03 with header of
   IB*2.0*00585 v1 Back-Out IB*2*585
   It consisted of the following Install(s):
   IB*2.0*00585
Checking Install for Package IB*2.0*00585
Install Questions for IB*2.0*00585

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

DEVICE: HOME// HOME   SSH VIRTUAL TERMINAL

                                    IB*2.0*00585
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
 Installing Routines:
               Jul 05, 2017@12:22

Running Post-Install Routine: ASKBO^IB585BO
Completely back out patch IB*2.0*585? N// YES
Deleting data from MASTER TYPE OF PLAN(#15) in File 355.1
Deleting Field MASTER TYPE OF PLAN(#15) in File 355.1
Deleting File 355.99
Deleting Option IBMTOP ASSN
Deleting Option IBMTOP MNU
Deleting Option IBMTOP RPT
Deleting Input Template [IB TOPM]
Deleting routine ^IBE585PO
Deleting routine ^IBENDS
Deleting routine ^IBENDS1
Updating Routine file
 Updating KIDS files

 IB*2.0*00585 Installed.
               Jul 05, 2017@12:22
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
           P,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,T
  100%     |                    25                   50                   75
Complete   Φ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,Γ

Install Completed
```

5.6.2 Alternate (Manual) Back-Out Method

The following involves manual deletion of Data Dictionaries (DDs) and routines, and will need to be executed from the programmers prompt. This procedure must be performed by persons with programmer-level access, and in conjunction with the STS team.

5.6.2.1 Manual Deletion of Data Dictionaries

1) Manually delete the MASTER TYPE OF PLAN file (#355.99), and delete the MASTER TYPE OF PLAN field (#15) from the TYPE OF PLAN file (#355.1).
2) Use File Manager to delete the new fields added with IB*2.0*585.
3) Delete the MASTER TYPE OF PLAN field (#15) from the TYPE OF PLAN (#355.1) file:
   a. Select FileMan option MODIFY FILE ATTRIBUTES.
   b. At the Select FIELD prompt, enter 'MASTER TYPE OF PLAN'.
   c. At the 'LABEL' prompt, enter "@".
   d. At the prompt "SURE YOU WANT TO DELETE THE ENTIRE 'MASTER TYPE OF PLAN' FIELD?" enter YES.
   e. At the prompt "OK TO DELETE 'MASTER TYPE OF PLAN' FIELDS IN THE EXISTING ENTRIES?" enter YES.

Example, manual deletion of MASTER TYPE OF PLAN field (#15) from TYPE OF PLAN file (#355.1):

```
VA FileMan 22.2

Select OPTION: MODIFY FILE ATTRIBUTES

Modify what File: TYPE OF PLAN//          (63 entries)

Select FIELD: MASTER TYPE OF PLAN

LABEL: MASTER TYPE OF PLAN// @

   SURE YOU WANT TO DELETE THE ENTIRE 'MASTER TYPE OF PLAN' FIELD? Y  (Yes)

OK TO DELETE 'MASTER TYPE OF PLAN' FIELDS IN THE EXISTING ENTRIES? Yes// Y
```

4) Delete the MASTER TYPE OF PLAN file (#355.99):
   a. Select FileMan option UTILITY FUNCTIONS.
   b. At the UTILITY OPTION prompt, select EDIT FILE.
   c. At the 'Modify what File' prompt, enter MASTER TYPE OF PLAN.
   d. At the "NAME" prompt, enter "@".
   e. At the prompt "DO YOU WANT JUST TO DELETE THE <nn> FILE ENTRES & KEEP THE FILE DEFINITION?", enter NO.
   f. At the prompt, "IS IT OK TO DELETE THE '^IBEMTOP(355.99' GLOBAL?", enter YES.
   g. At the prompt, "SURE YOU WANT TO DELETE THE ENTIRE 'MASTER TYPE OF PLAN' FILE?", enter YES.

Example: Manual deletion of MASTER TYPE OF PLAN file (#355.99):

```
VA FileMan 22.2

Select OPTION: UTILITY FUNCTIONS

Select UTILITY OPTION: EDIT FILE

Modify what File: MASTER TYPE OF PLAN//   (15 entries)

Do you want to use the screen-mode version? YES// NO

NAME: MASTER TYPE OF PLAN// @

POINTED TO BY: PARENT field (#2) of the MASTER TYPE OF PLAN File (#355.99)

               REPLACED BY VHA STANDARD TERM field (#99.97) of the MASTER TYPE

                   OF PLAN File (#355.99)


DO YOU WANT JUST TO DELETE THE 15 FILE ENTRIES,

         & KEEP THE FILE DEFINITION? No//   (No)

   IS IT OK TO DELETE THE '^IBEMTOP(355.99)' GLOBAL? Yes// Y  (Yes)

   SURE YOU WANT TO DELETE THE ENTIRE 'MASTER TYPE OF PLAN' FILE? Y  (Yes)

   Deleting the DATA DICTIONARY

   Deleting the INPUT TEMPLATES

   Deleting the PRINT TEMPLATES

   Deleting the SORT TEMPLATES

   Deleting the FORMS

   Deleting the BLOCKS
```

5.6.2.2 Manual deletion of Routines IBENDS, IBENDS1, and IBE585PO

The deletion of a routine is a potentially dangerous activity. This procedure must be performed by persons with programmer-level access, and in conjunction with the STS team.

1) From the ROUTINE MANAGEMENT MENU [XUROUTINES], select the DELETE ROUTINES [XTRDEL] option. IMPORTANT: When prompted for 'All Routines?', enter NO.
   a. At the 'Routine:' prompt, enter IBE585PO.
   b. At the next 'Routine:' prompt, enter IBENDS
   c. At the next 'Routine:' prompt, enter IBENDS1
   d. At the next 'Routine:' prompt, press <Enter>
   e. At the prompt '3 routines to DELETE, OK:'. enter YES.

Example, manual deletion of routines IB585PO, IBENDS, IBENDS1 using option DELETE ROUTINES [XTRDEL]:

```
Select OPTION NAME: ROUTINE MANAGEMENT MENU  XUROUTINES     Routine Management Menu
          Bring in Sent Routines
          Delete Routines
          First Line Routine Print
          List Routines
          Move Routines across Volume Sets
Select OPTION NAME: DELETE ROUTINES  XTRDEL     Delete Routines
Delete Routines
ROUTINE DELETE


All Routines? No => No
Routine: IB585PO
Routine: IBENDS
Routine: IBENDS1
Routine:
3 routine


3 routines to DELETE, OK: NO// Y
IBE585PO
IBENDS
IBENDS1
Done.
```

5.6.2.3 Manual deletion of options IBMTOP ASSN, IBMTOP RPT, IBMTOP MNU

The deletion of an option is a potentially dangerous activity. This procedure must be performed by persons with programmer-level access, **and in conjunction with the STS team**.

1) From FileMan, select option ENTER OR EDIT FILE ENTRIES.
2) At the "Input to what File" prompt, enter "19" or "OPTION".
3) At the "EDIT WHICH FIELD" prompt, accept the default of ALL.
4) At the "OPTION NAME" prompt, enter IBMTOP ASSN. (repeat steps iv-vii with options IBMTOP MNU and IBMTOP RPT to delete all three options).
5) At the prompt "NAME", enter "@".
6) At the prompt "SURE YOU WANT TO DELETE THE ENTIRE 'IBMTOP ASSN' OPTION", enter YES.

7) At the prompt “DO YOU WANT THOSE POINTER UPDATED (WHICH COULD TAKE QUITE A WHILE)”, enter NO.

Example, manual deletion of options IBMTOP ASSN, IBMTOP MNU, IBMTOP RPT:

```
VA FileMan 22.2

Select OPTION: ENTER OR EDIT FILE ENTRIES

Input to what File: 19  OPTION       (11402 entries)

EDIT WHICH FIELD: ALL//

Select OPTION NAME: IBMTOP ASSN

NAME: IBMTOP ASSN// @

   SURE YOU WANT TO DELETE THE ENTIRE 'IBMTOP ASSN' OPTION? Y  (Yes)

SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'

BY ENTRIES IN THE 'AUDIT' FILE, ETC.,

DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// N
```

5.6.2.4 Manual deletion of Input template IB TOPM

The deletion of an Input Template is a potentially dangerous activity. This procedure must be performed by persons with programmer-level access, **and in conjunction with the STS team.**

1) From FileMan, select option ENTER OR EDIT FILE ENTRIES.
2) At the “Input to what File” prompt, enter INPUT TEMPLATE.
3) At the “EDIT WHICH FIELD” prompt, accept the default of ALL.
4) At the “SELECT INPUT TEMPLATE” prompt, enter IB TOPM.
5) At the prompt “NAME”, enter “@”.
6) At the prompt “SURE YOU WANT TO DELETE THE ENTIRE ‘IB TOPM’ INPUT TEMPLATE”, enter YES.
7) At the prompt “DO YOU WANT THOSE POINTER UPDATED (WHICH COULD TAKE QUITE A WHILE)”, enter NO.

Example, manual deletion of Input Template IB TOPM:

```
VA FileMan 22.2
Select OPTION: ENTER OR EDIT FILE ENTRIES
Input to what File: INPUT TEMPLATE// INPUT TEMPLATE    (1840 entries)
EDIT WHICH FIELD: ALL//
Select INPUT TEMPLATE: IB TOPM
                              (AUG 12, 2017@11:05)          File #355.1
NAME: IB TOPM// @
   SURE YOU WANT TO DELETE THE ENTIRE 'IB TOPM' INPUT TEMPLATE? Y  (Yes)
SINCE THE DELETED ENTRY MAY HAVE BEEN 'POINTED TO'
BY ENTRIES IN THE 'MAS PARAMETERS' FILE, ETC.,
DO YOU WANT THOSE POINTERS UPDATED (WHICH COULD TAKE QUITE A WHILE)? No// N
  (No)
```

5.7 Back-out Verification Procedure

5.7.1 Routines

Successful back-out of the routines installed by the patch may be verified by running the CHECK1^XTSUMBLD utility from the programmer prompt for IB*2.0*585 after installation of IB*2.0*00585. If back-out was successful, the message "Routine not in this UCI" will display next to each routine.

Example, CHECK1^XTSUMBLD of routines installed by patch IB*2.0*585:

```
D CHECK1^XTSUMBLD

New CheckSum CHECK1^XTSUMBLD:


This option determines the current checksum of selected routine(s).

     Select one of the following:

          P          Package

          B          Build

Build from: Build

This will check the routines from a BUILD file.

Select BUILD NAME: IB*2.0*585       INTEGRATED BILLING

IBE585PO  Routine not in this UCI.

IBENDS    Routine not in this UCI.

IBENDS1   Routine not in this UCI.

done
```

5.7.2 Data Dictionaries

Successful back-out of the fields and file installed by the patch may be verified by running a global listing from the VistA server command line after installation.

The verification of successful data dictionary back-out consists of verifying the MASTER TYPE OF PLAN field (#15) in the TYPE OF PLAN file (#355.1) was successfully deleted and no longer exists (User input is depicted below in ***bold italicized and underlined*** font):

Example, global listing of backed out MASTER TYPE OF PLAN field (#15) in the TYPE OF PLAN file (#355.1):

```
D ^%G
Device:
Right Margin:
Screen size for paging (0=nopaging)? =>
Global ^DD(355.1,15
     <nothing should print>
```

Example, global listing of backed out MASTER TYPE OF PLAN file (#355.99):

```
D ^%G
Device:
Right Margin:
Screen size for paging (0=nopaging)? =>
Global ^DD(355.99,
     <nothing should print>
```

5.7.3 Options

Successful back-out of the options installed by the patch may be verified by running an inquiry in FileMan after back-out has been completed. The verification of successful back-out of options consists of verifying the *IBMTOP ASSN*, *IBTMTOP MNU*, and *IBMTOP RPT* options were successfully deleted and no longer exist.

Example, FileMan Inquiry after deleting options:

```
VA FileMan 22.2

Select OPTION: INQUIRE TO FILE ENTRIES

Output from what File: OPTION//           (11401 entries)

Select OPTION NAME: IBMTOP ASSN ??
```

5.7.4 Input Template

Successful back-out of the input template installed by the patch may be verified by running an inquiry in FileMan after back-out has been completed. The verification of successful back-out of the input template consists of verifying the IB TOPM input template was successfully deleted and no longer exists.

Example, FileMan Inquiry after deleting input template:

```
VA FileMan 22.2

Select OPTION: INQUIRE TO FILE ENTRIES

Output from what File: INPUT TEMPLATE//   (1839 entries)

Select INPUT TEMPLATE: IB TOPM ??

Select INPUT TEMPLATE:
```

6 Rollback Procedure

N/A

6.1 Rollback Considerations

N/A

6.2 Rollback Criteria

N/A

6.3 Rollback Risks

N/A

6.4 Authority for Rollback

N/A

6.5 Rollback Procedure

N/A

6.6 Rollback Verification Procedure

N/A