U.S. Department of Veterans Affairs

Office of Information and Technology
Product Development

**Electronic Data Interchange (EDI)
New Standards and Operating Rules –
VHA Provider-side Technical Compliance Requirements
VA118-1001-1018**

Health Plan Identifier (HPID) Implementation

Integrated Billing (IB)

Release Notes/ Installation Guide/ Rollback Plan

IB*2*519

November 2014

Table of Contents

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1 Introduction

This Integrated Billing (IB) patch introduces changes to VistA's Insurance Company file (#36) and electronic Insurance Verification (eIV) in order to meet the Committee on Operating Rules for Information Exchange (CORE) Operating Rules.

```
   APPLICATION/VERSION                                PATCH
   -------------------------------------------------------------
   INTEGRATED BILLING (IB) V. 2.0                     IB*2*519
```

This patch (IB*2*519) is being released in the Kernel Installation and Distribution System (KIDS) distribution.

1.1   Documentation and Distribution

Updated documentation describing the new functionality introduced by this patch is available using the File Transfer Protocol (FTP).

The preferred method is to FTP the files from ftp://download.vista.med.va.gov/. This transmits the files from the first available FTP server. Sites may also elect to retrieve software directly from a specific server as follows:

Albany   ftp.fo-albany.med.va.gov
<ftp://ftp.fo-albany.med.va.gov>

Hines   ftp.fo-hines.med.va.gov
<ftp://ftp.fo-hines.med.va.gov>

Salt Lake City ftp.fo-slc.med.va.gov
<ftp://ftp.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 at: http://www4.va.gov/vdl/

```
File Description                      File Name            FTP Mode
------------------------------------------------------------------------
Release Notes/Installation Guide     ib_2_519_rn_ig.pdf   Binary
IB User Manual                       ib_2_0_um_r1114.pdf  Binary
IB Technical Manual                  ib_2_0_tm_r1114.pdf  Binary
```

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2 Patch Description and Installation Instructions

2.1 Patch Description

```
==============================================================================
Run Date: DEC 16, 2014                     Designation: IB*2*519
Package : INTEGRATED BILLING               Priority   : MANDATORY
Version : 2                                Status     : RELEASED
==============================================================================


Associated patches: (v)IB*2*211    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*400    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*457    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*488    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*494    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*497    <<= must be installed BEFORE `IB*2*519'
                    (v)IB*2*506    <<= must be installed BEFORE `IB*2*519'


Subject:  IB/NATIONAL INSURANCE FILE (NIF) INTERFACE, eIV AND eBILLING FIXES

Category:  ROUTINE
           ENHANCEMENT
           DATA DICTIONARY
           OTHER

Description:
===========


*****************************************************************************
Please install this patch at your earliest convenience. When you install this
patch, an extract of insurance company data will be transmitted to the
eBusiness Solutions group of the Chief Business Office (CBO). Once received,
this extract will be combined with extracts from other VAMC sites -- a time-
consuming process. In order to allow the eBusiness team adequate time to
consolidate this data, it would be appreciated if this patch could be
installed closer to the beginning of the compliance window rather than toward
the end of it.

After installing this patch, you must enable the logical link for the HL7
interface to the NIF. Instructions for doing this are included in the post-
install instructions below.
*****************************************************************************


The Health Plan Identifier (HPID) project implements a new national standard
of having a single identifier to use on electronic transmissions pertaining
to health care. All entities that are financially responsible for care are
assigned a HPID or Other Entity Identifier (OEID), used for entities that
aren't traditional health plans. This new standard increases interoperability
by replacing clearinghouse-specific identifiers for health plans.

This patch updates the Integrated Billing (IB) package to enable it to store
these new HPIDs and OEIDs, and to associate the entries in the local
INSURANCE COMPANY file (#36) with a new National Insurance File (NIF). The
```

NIF is housed at the Financial Services Center (FSC), which will centrally manage distribution of HPID/OEID data.

This patch introduces a new Health Level Seven (HL7) interface for exchanging insurance information with the NIF. Included with this new interface is a logging function which generates transaction records, facilitating troubleshooting. These records are periodically purged by the software itself.

When installed, this patch will transmit a flat-file extract to the FSC in order to assist in the setup of the NIF.

Additional patch items:

1) If a user selects the option PROCESS INSURANCE BUFFER[IBCN INSURANCE BUFFER PROCESS] and they have neither of the security keys (IB INSURANCE COMPANY EDIT and IB GROUP PLAN EDIT), then the only insurance buffer records that are displayed to them would be entries for Electronic Insurance Verification (eIV) confirmed active policies ("+" entries) when the patient in that record has an active policy on file in VistA. This patch increases the number of potential active policies that users may process.

2) Corrected a problem that occurs on some insurance buffer entries. With the menu option PROCESS INSURANCE BUFFER [IBCN INSURANCE BUFFER PROCESS], a user can select to Expand Entry (action 'EE'). Some records, when expanded, are showing that the eIV response is based on an unknown Service Date and unknown Service Type. This is being corrected to report the correct service date and type. This data is only available to those buffer entries that were processed by eIV.

3) Corrected a problem that occurs with the option PROCESS INSURANCE BUFFER [IBCN INSURANCE BUFFER PROCESS]. If a user selects the Expand Entry action ('EE') followed by the Response Report action ('RR'), when the user exits the eIV Response Report the display does not show the detail of the record and page 0 of 0 is displayed. The software has been updated so that the display is correct when a user exits the eIV Response Report.

4) Corrected a problem where the Total Charges dollar amount (BOX24F) and the Days/Unit (BOX24G) were printing one character too far over to the right on the CMS-1500 form and causing BOX24G's data to run into BOX24H. To support this, the IB FORM SKELETON DEFINITION (#364.3) entry for BOX24F (record 1487) had its Length field (#.09) changed from 9 to 8.

5) Corrected a problem where the Total Charges dollar amount was dropping the last number in the cents field on the TPJI->BC (Bill Charges) display screen.

Patch Components
================

Files & Fields Associated:

File Name (Number)	Field Name (Number)	New/Mod/Del
INSURANCE COMPANY (#36)		

```
                      HPID/OEID (#8.01)                          NEW
                      CHP/SHP (#8.02)                            NEW
                      PARENT CHP (HPID) (#8.03)                  NEW
                      NIF ID (#8.04)                             NEW


IB FORM SKELETON DEFINITION (#364.6)                        MOD ENTRY
    Screen: I Y=1487


HPID/OEID RESPONSE (#367)
                      MESSAGE CONTROL ID (#.01)                 NEW
                      TRANSMISSION QUEUE (#.02)                 NEW
                      RESPONSE TYPE (#.03)                      NEW
                      INSURANCE COMPANY (#.04)                  NEW
                      PROCESSING STATUS (#.05)                  NEW
                      STATUS DATE/TIME (#.06)                   NEW
                      VISTA UNIQUE ID (#.07)                    NEW
                      PARENT CHP (HPID) (#.08)                  NEW
                      CHP/SHP (#.09)                            NEW
                      DATE OF FUTURE PURGE (#.1)                NEW


HPID/OEID RESPONSE (#367) Subfile IDENTIFIERS (#1)
                      INSURANCE COMPANY ID TYPE (#.01)          NEW
                      ID (#.02)                                 NEW
                      SECONDARY ID QUALIFIER (#.03)             NEW


HPID/OEID TRANSMISSION QUEUE (#367.1)
                      TRANSACTION NUMBER (#.01)                 NEW
                      INSURANCE COMPANY (#.02)                  NEW
                      DATE/TIME CREATED (#.03)                  NEW
                      TRANSMISSION STATUS (#.04)                NEW
                      STATUS DATE/TIME (#.05)                   NEW
                      RESPONSE (#.07)                           NEW
                      STREET ADDRESS [LINE 1] (#2.01)           NEW
                      STREET ADDRESS [LINE 2] (#2.02)           NEW
                      CITY (#2.03)                              NEW
                      STATE (#2.04)                             NEW
                      ZIP CODE (#2.05)                          NEW
                      BILLING COMPANY NAME (#2.06)              NEW
                      TYPE OF COVERAGE (#2.07)                  NEW
                      PHONE NUMBER (#2.08)                      NEW


HPID/OEID TRANSMISSION QUEUE (#367.1) Subfile IDENTIFIERS (#1)
                      INSURANCE COMPANY ID TYPE (#.01)          NEW
                      ID (#.02)                                 NEW
                      SECONDARY ID QUALIFIER (#.03)             NEW


INSURANCE COMPANY ID TYPE (#367.11)
                      NAME (#.01)                               NEW
                      DESCRIPTION (#1)                          NEW


Forms Associated:

Form Name            File #      New/Modified/Deleted
---------            ------      --------------------
N/A

Mail Groups Associated:
```

```
Mail Group Name          New/Modified/Deleted
---------------          --------------------
NIFQRY                   NEW

Options Associated:

Option Name                      Type         New/Modified/Deleted
-----------                      ----------   ------------------------
IBCNH HPID NIF BATCH QUERY       SERVER       NEW

Protocols Associated:

Protocol Name                New/Modified/Deleted
-------------                --------------------
IB NIF QUERY DRIVER          NEW
IB NIF QUERY SUBSCRIPTION     NEW
IB NIF RESPONSE DRIVER       NEW
IB NIF RESPONSE SUBSCRIPTION  NEW

Security Keys Associated:

Security Key Name
-----------------
N/A


Templates Associated:

Template Name               Type      File Name (Number) New/Mod/Del
-------------               ----      ----------------- -----------
N/A

Remote Procedure                      New/Mod/Del
-------------                         -----------
N/A

HL7 Logical Link Name                 New/Mod/Del
--------------------                  --------------------
IB NIF TCP                            NEW

HL7 Application Parameter Name        New/Mod/Del
-----------------------------        --------------------
NIF FSC                              NEW
NIF VISTA                           NEW

Additional Information:
N/A


New Service Requests (NSRs):
----------------------------
NSR - Request ID: 20110503 Electronic Data Interchange (EDI) New
      Standards and Operating Rules (Veterans Health Administration)
      VHA Provider-Side TCRs 05/19/2011
      http://vista.med.va.gov/nsrd/ViewITRequest.asp?RequestID=20110503
```

```
Patient Safety Issues (PSIs):
-----------------------------
N/A

Remedy Ticket(s) & Overviews:
-----------------------------
1066171 - Total Charges (Box 24F) amount truncated on CMS1500 and TPJI

Test Sites:
-----------
White River Junction, VT
Houston, TX
Walla Walla, WA
Tampa, FL
```

2.2   Pre/Post Installation Overview

```
Pre/Post Installation Overview
------------------------------
This patch should be installed during a period of low system activity with IB
users off the system. After this patch is installed, a task will be scheduled
to send an extract of the INSURANCE COMPANY file (#36) to the FSC to aid in
setting up the NIF. By default, the task will begin immediately after the
installation is complete, but this can be delayed until a later time if
necessary. Since this patch should be installed during a period of low system
activity, the chance of this extract impacting users' sessions is low. This
should be taken into account when deciding on the timing of this extract.

Don't forget to enable the logical link for the HL7 interface (step 3 of the
post install instructions) immediately after installing the patch.
```

2.3   Installation Instructions

```
Installation Instructions
-------------------------
This patch should be installed during a period of low system activity
with IB users off the system. No options need to be placed out of
service. Installation time is expected to be less than 5 minutes.

Pre-Installation Instructions
-----------------------------

1. Choose the PackMan message containing this patch.

2. Choose the INSTALL/CHECK MESSAGE PackMan option.

3. From the Kernel Installation and Distribution System (KIDS) Menu, select
   the Installation Menu.  From this menu, you may elect to use the following
   option. When prompted for the INSTALL enter the patch # (IB*2.0*519):
```

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, data dictionaries, templates, etc.). Note: Because of a typo in the previous patch, you may see the message "*** WARNING, you are missing one or more Patches ***" when comparing IBCNEHL4. You may safely ignore this warning, and the typo that caused KIDS to display this message has been fixed.

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. Enter IB*2.0*519.

5. When prompted for 'Enter the Coordinator for Mail Group 'NIFQRY':", respond with the name of the Mail Group Coordinator for the Integrated Billing package or a facility Mail Group Coordinator.

6. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.

7. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.

8. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.

9. If prompted 'Delay Install (Minutes): (0 - 60): 0//' respond 0.

Post-Installation Instructions
----
1. You will be prompted 'Requested Start Time: NOW//

    At this prompt, you may enter a time to run the data extract after installation, with a default of immediately. If you wish to delay the extract until a later time, enter that time at this prompt. This prompt will be skipped if the install is queued. In that case, the extract will be executed at the time the install is performed.

 2. If you chose to delay the extract, then you will see 'Task #' followed by the number of your scheduled task. You will need this number if you want to confirm that your task has been scheduled to run. To confirm this, from the Taskman Management menu, select List Tasks, then Your future tasks. Check the output from that option for an entry matching your task number, and verify that it is scheduled for the appropriate time.

 3. Enable the logical link for the HL7 interface to the NIF.
      a. From the HL7 Main Menu [HL MAIN MENU], select Filer and Link Management Options [HL MENU FILER LINK MGT].
      b. Select Start/Stop Links [HL START].
      c. When promped to "Select HL LOGICAL LINK NODE:" enter "IB NIF TCP" and press ENTER.

```
        d. The system will display "This LLP has been enabled!" to confirm that
           it has successfully started.

Routine Information:
====================
The second line of each of these routines now looks like:
V ;;2.0;INTEGRATED BILLING;**[Patch List]**;21-MAR-94;Build 56

The checksums below are new checksums, and
 can be checked with CHECK1^XTSUMBLD.

Routine Name: IBAMTC
     Before: B26047773   After: B26484499  **34,52,70,93,100,118,115,132,
                                             150,153,137,176,215,275,321,
                                             312,457,519**
Routine Name: IBCEU3
     Before:B105297417   After:B106673839  **51,137,155,323,348,371,400,
                                             432,488,519**
Routine Name: IBCNBLE
     Before:B105786784   After:B108261556  **82,231,184,251,371,416,435,
                                             452,497,519**
Routine Name: IBCNBLL
     Before:B138729075   After:B139954762  **82,149,153,183,184,271,345,
                                             416,438,435,506,519**
Routine Name: IBCNBMN
     Before: B7906645    After:  B8591639  **82,211,519**
Routine Name: IBCNEHL4
     Before:B174792299   After:B176214857  **300,416,438,497,506,519**
Routine Name: IBCNERPE
     Before: B65900140   After: B70614398  **271,300,416,438,497,506,519**
Routine Name: IBCNHHLI
     Before:        n/a  After: B10645426  **519**
Routine Name: IBCNHHLO
     Before:        n/a  After: B10205311  **519**
Routine Name: IBCNHSRV
     Before:        n/a  After:  B2517223  **519**
Routine Name: IBCNHUT1
     Before:        n/a  After: B19672959  **519**
Routine Name: IBCNHUT2
     Before:        n/a  After: B47011114  **519**
Routine Name: IBCNSC01
     Before: B57572758   After: B59075221  **52,137,191,184,232,320,349,
                                             371,399,416,432,494,519**
Routine Name: IBCNSC1
     Before: B88597979   After: B90495985  **62,137,232,291,320,348,349,
                                             371,400,519**
Routine Name: IBCNSJ3
     Before: B19317542   After: B20256950  **28,497,506,519**


Routine Name: IBY519PO
     Before:        n/a  After: B40291795  **519**



Routine list of preceding patches: 211, 457, 488, 494, 506
```

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3 Backout and Rollback Procedures

3.1   Overview of Backout and Rollback Procedures

The rollback plan for VistA applications is complex and not able to be a "one size fits all." The general strategy for VistA rollback is to repair the code with a follow-on patch. The development team recommends that sites log a Remedy ticket if it is a nationally released patch; otherwise, the site should contact the product development team directly for specific solutions to their unique problems.

3.2   Backout Procedure

During the VistA Installation Procedure of the KIDS build, the installer hopefully backed up the modified routines by the use of 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 backout procedure for global, data dictionary and other VistA components is more complex and will require issuance of a follow-on 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 backout may need to include a database cleanup process.

Please contact the product development team for assistance if the installed patch that needs to be backed out contains anything at all besides routines before trying to backout the patch. If the installed patch that needs to be backed out includes a pre or post install routine please contact the product development team before attempting the backout.

```
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.
```

3.3   Rollback Procedure

The rollback procedure for VistA patches is complicated and may require a follow-on patch to fully roll back to the pre-patch state. This is due to the possibility of Data Dictionary updates, Data updates, cross references, and transmissions from VistA to offsite data stores.

Please contact the product development team for assistance if needed.

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4 Enhancements

The following features in VistA, Integrated Billing are affected by this effort:

4.1   System Feature: HL7 Messages Inbound

4.1.1 HL7 Messages Inbound – Maintain the Insurance Company Name in the Insurance Company file (#36)

The insurance company name in the Insurance Company File (#36) is NOT updated using the data from the NIF.

4.1.2 HL7 Messages Inbound – The HPID/OEID Field to Be Viewable Only in the Insurance Company file (#36)

The HPID/OEID field is viewable but non-editable in VistA in the Insurance Company file (#36). Any changes to HPID/OEID are made in the NIF so that they may be distributed to all VAMCs.

4.1.3 HL7 Messages Inbound – Store the HPID in the Insurance Company file (#36)

The system stores the HPID in the Insurance Company file (#36). The HPID is a 10-digit, all-numeric identifier which follows the ISO (International Organization for Standardization) Standard 7812 format with a Luhn check-digit as the tenth digit. The start digit of the HPID signals whether the identifier has been provided to a health plan or to an "other entity". If the start digit is a seven (7) then it identifies a health plan, a six (6) indicates an "other entity".

4.1.4 HL7 Messages Inbound – Store the Other Entity Identifier (OEID) in the Insurance Company file (#36)

The system stores the Other Entity Identifier (OEID) in the Insurance Company file (#36). The OEID serves as the identifier for entities that are not health plans, healthcare providers, or individuals (persons) who are not eligible for the HPID or National Provider Identifier (NPI), yet they need to be identified in standard transactions and for other lawful purposes. The Other Entity Identifier begins with a six (6).

4.1.5 HL7 Messages Inbound – Distinguish Between HPID and OEID

The system maintains a field to distinguish between an HPID identifier and an OEID identifier. **Note**: HPID is used for patient specific health plan product or benefit plan; OEID is used for organizations that perform the health plan function or other entity that performs certain administrative or contracting functions on behalf of the health plan.

4.1.6 HL7 Messages Inbound – Ability to Define the HPID as Either a Controlling Health Plan (CHP) or Subhealth Plan (SHP)

The system defines the VistA Insurance Company file (#36) entry as either the Controlling Health Plan (CHP) or Subhealth Plan (SHP).

Note: CHP is a health plan that controls its own business activities, actions, or policies. Can have 0 to many subhealth plans associated to it. SHP is a health plan whose business activities, actions, or policies are directed by a CHP.

4.1.7 HL7 Messages Inbound – Associate the Legacy Identifiers to the New HPID/ OEID

The system associates the new HPID/OEID data element with the legacy identifiers representing a given health plan so there will be a linkage between old and new.

Note: A HPID/OEID may be linked to more than one legacy ID and there may be multiple HPID/OEID entries linked to a single legacy ID.

4.1.8 HL7 Messages Inbound – Retain Patient Policy Functionality with Respect to the Patient File (#2)

The system retains the functionality to associate patients to their policies, and maintain the necessary information on electronic transmissions so that FSC retains the ability to route files to the correct payer system.

4.1.9 HL7 Messages Inbound – Maintain the Existing EDI Professional and EDI Institutional Legacy 20-Byte Fields

The system provides the ability for VistA to maintain the existing (legacy) 20 byte data field, for the EDI Professional and the EDI Institutional.

Note: Fields are as follows: File #36, field #3.02 EDI ID NUMBER-PROF and File #36 field #3.04 EDI ID NUMBER-INST.

4.1.10 HL7 Messages Inbound – Continue to Store the Legacy Electronic Payer ID

The system provides the ability for VistA to continue to store the legacy electronic Payer ID.

4.1.11 HL7 Messages Inbound – Load the HPID/OEID into the local Insurance Company File (#36)

The system loads the HPID into the local Insurance Company file (#36) based on the INSID from the original seeding of the NIF from VistA.

Note: INSID is a unique insurance company ID from VistA. It is a combination of the site's number and the internal record number in file #36.

4.1.12 HL7 Messages Inbound – Receive and Process a HPID/OEID from FSC

The system provides the ability for VistA to receive and process HPID/OEID into file #36 upon receipt of an update from FSC based on changes to the NIF. An INSID consisting of a site ID and IEN is used so that updates are only stored at sites with systems already containing a given payer.

4.1.13 HL7 Messages Inbound – Modify the Insurance Company View Screen to Include the HPID/OEID

The Insurance Company View Screen includes the HPID/OEID. This field is view only.

4.2   System Feature: HL7 Messages Outbound

4.2.1 HL7 Messages Outbound - Allow Messages to be Exchanged between VistA and the NIF

The system provides the ability for VistA to use an interface to send and receive messages to/from the NIF, regardless of who initiates the message.

Note: VistA receives and stores a NIFID (National Insurance File ID).

4.2.2 HL7 Messages Outbound - Send Updates to the NIF for New Group/Plans Entered in VistA

The system provides the ability for VistA to use an interface to send a message containing insurance company information to the NIF, when a new Group/Plan is entered into VistA, and it is a new Insurance Company.

Note: VistA receives and stores a NIFID.

4.2.3 HL7 Messages Outbound - Send Updates to the NIF for Insurance Companies Modified in VistA

The system provides the ability for VistA to use an interface to send a message containing insurance company information to the NIF, when a VistA/NIF exchanged field associated with an insurance company is modified in VistA.

4.3   System Feature: Data Extract

4.3.1 Data Extract - Create Data Extract Files from Each VAMC to FSC for Initial Seeding of NIF

Data extracts are created from each VAMC's VistA system using data from the Insurance Company (#36) file and sent to the FSC for initial seeding of the NIF. VistA only sends active insurance companies.