



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# **Immunization Module**

(BI)

## **Installation Guide and Release Notes**

Version 8.5  
November 2011

Office of Information Technology (OIT)  
Division of Information Resource Management  
Albuquerque, New Mexico

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## Preface

This manual provides information regarding only the loading and installation of the Indian Health Service RPMS Immunization Module v8.5 software. Information regarding the setup of Immunization v8.5 (site parameters, keys, letters, etc.) is provided in the Immunization v8.5 User Manual.

## **1.0 Release Notes**

### **1.1 Background**

The original RPMS Immunization tracking software was written in the 1980s. Version 7.0, which was a complete rewrite of the Immunization software, began in 1996 with consultation from a national team of IHS field staff that developed a set of design requirements for the software. The current version 8.5 software replaces all previous versions (v8.xx, v7.xx, and v6.8).

## 2.0 New Features in Version 8.5

### 2.1 Most Important New Features

Version 8.5 includes updated forecasting for HPV in males, PCV13, IPV, influenza in children, Tdap, Zoster, and Meningococcal conjugate (MCV) vaccines. The 3-27 month Quarterly Report is updated to include new “on-time” logic. There is a PCV report to document receipt of PCV13 vaccine. The VAC report can be printed by vaccine lot number.

### 2.2 PATIENT MENU

#### 2.2.1 Updated Forecasting: HPV in males, IPV, Influenza in children, Tdap , Mening booster

- HPV forecasts in males 19-18 (26) years who receive 1 dose.
- PCV13 forecasts in 14-59 month olds who received 4 doses of PCV7
- IPV3 to 4 interval 6 months; IPV4 must be age 4 years or older
- Influenza – only one dose required in children who received Flu in 2010-11
- Tdap – forecast one dose for all ages regardless of interval since Td, including 7-10 year olds incompletely vaccinated and 65+ year olds
- Meningococcal booster required at 16 yrs for those who received dose before 16 yrs.

#### 2.2.2 Contraindications: Immunodeficient status to include Rotavirus

Updated “Contraindications” of immunodeficient to include Rotavirus

#### 2.2.3 Add/Edit Screen: Disable VFC in 19 years and older

VFC eligibility will no longer be displayed and completed for patients 19 years and older.

#### 2.2.4 Add intradermal (ID) injection sites

Added injection sites RID and LID for right/left intradermal.

#### 2.2.5 Patient Lists and Letters

In Patient Lists and Letters, the following filters have been added to the parameters:

- Parameter 3: Patient Group – Beneficiary. Users can limit this group to only American Indian/Alaska Beneficiaries
- Parameter 10: Additional Information. New data element includes VFC status

## 2.3 REPORTS MENU

### 2.3.1 3-27 month Quarterly Report: new ‘on-time’ logic

- The 3-27 month Report logic now counts children current for Hib and PCV if they started late but are considered ‘up-to-date’ per the catch up schedule
- Hib and Rotavirus vaccine logic now accounts for different formulations and different dose numbers needed when calculating up to date status.

3-27 month report forecasting logic for Hib, PCV, Rotavirus

Vaccine	3-4mo	5-6mo	7-15mo	16-18mo	19-23mo	24-27
<b>Hib</b>						
Pedvax (all doses <12mo)	1	2	2	3 or 2 ≥ 12 mo. 1 ≥ 15 mo.	3 or 2 ≥ 12 mo. 1 ≥ 15 mo.	3 or 2 ≥ 12 mo. 1 ≥ 15 mo.
ActHIB	1	2	3 or 2 ≥ 7 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 15 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 15 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 15 mo.
<b>PCV</b> (PCV7 and/or PCV13)	1	2	3 or 2 ≥ 7 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 24 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 24 mo.	4 or 3 ≥ 7 mo. 2 ≥ 12 mo. 1 ≥ 24 mo.
<b>Rotavirus</b>						
RotaTeq (Rota-5)	1	2	3	3	3	3
Rotarix (Rota-1)	1	2	2	2	2	2

### 2.3.2 Adult Report

- Age Range broadened to 19 years and older.
- Report includes coverage with: Tdap ever, Tdap/Td in past 10 years, Pneumococcal, and HPV in 19-26 year old females and males.

### 2.3.3 VAC Report

The VAC Report has a new option to run report by vaccine lot number.

### 2.3.4 PCV Report

There is a new PCV report to show PCV13 vaccine usage by age group and time period.

### 2.3.5 Adolescent Report

The Adolescent report has been revised as outlined below:

- Added male denominators and coverage for HPV,
- Underreporting of Flu immunizations corrected,
- Changed the Up-to-date measure for Current/Not current. Current = 1Tdap/Td and 1 Mening.

## 2.4 MANAGERS MENU

### 2.4.1 Add optional Zoster Forecasting

Under ESP (Edit Site Parameters) Option #11, users can choose to forecast for Zoster vaccine in all adults >60 years.

### 2.4.2 Automatically activate children <36 months with no community listed

### 2.4.3 Update Vaccine Table and Manufacturers Table

The Vaccine Table has been updated with changes made by CDC to the CVX (vaccine) and MVX (manufacturer) codes in recent months. The following vaccines have been added: Flu-dermal (Influenza intradermal vaccine), Adeno-oral, Tet Tox, na (Tetanus toxoid, non-adsorbed), Td-NA (Tetanus diphtheria, non-adsorbed).

### 2.4.4 Changes to High Risk Factor Check

Under ESP (Edit Site Parameters) updated the code that looks for smoking related health factors.

### 2.4.5 Add NDC codes to Lot number add/edit

Added NDC field to the Lot number add/edit screen which links to a list of NDC codes. If a NDC code is entered here, it will automatically populate in the Add Immunization Screen in the Patient Menu when a lot number is added.

### 2.4.6 Export Vaccine Table to Excel

A new feature added which sends file named RPMS Vaccine Table.csv to Host File Server.

### 2.4.7 Security Key BIZ LOT ONLY Check/Fix

A check on the integrity of the BIZ LOT ONLY Security Key in locking the BI LOT NUMBER NON-MANAGER Option is automatically performed when Imm v8.5 is installed. (The BI LOT NUMBER NON-MANAGER Option gives “off-menu” access to a user, such as a pharmacist, to add and maintain the Lot Number Inventory without gaining access to the rest of the Manager Menu in the Immunization Package.) It may be necessary to reassign the BIZ LOT ONLY key to some users who previously had access but find it missing after the installation of Imm v8.5.



## 3.0 Installation Notes

**Prefix:** B

**Current Version:** 8.5

Read entire notes file prior to attempting any installation

### 3.1 General Information

- Make a copy of this distribution for offline storage.
- Print all note/readme files.
- It is recommended that the terminal output during the installation be captured using an auxport printer attached to the terminal at which you are performing the software installation. This will ensure a printed audit trail if any problems should arise.

### 3.2 Contents of Distribution

File	Description
bi__0850.k	KIDS installation file
bi__0850win.zip	Immserve Files for Windows PCs
bi__0850unix.tar	Immserve Files for AIX machines
bi__085i.pdf	Installation Guide and Release Notes (this document)
bi__085s.pdf	Security Manual
bi__085t.pdf	Technical Manual
bi__085u.pdf	User Manual

### 3.3 Required Resources

- Kernel v8 or later
- FileMan v22
- Immunization v8.4 or later, or Immunization never before installed
- Cache 4.1 or later
- Cache \$ZF Heap of at least 124335

**Note:** It is critically important that the screen handling codes for C-VT100 in the Terminal Type File be up-to-date.

## 3.4 Before You Begin: Installation Issues

None

## 4.0 Installation Instructions

In all Namespaces running RPMS Immunization:

1. Be sure that a good backup of the Cache database has been obtained and is available. Disable logins and ensure all users are off, or at least ensure that PCC Data Entry for immunizations is not occurring and that Health Summaries are not being printed.
2. Load the Immserve utility by performing the following steps. The process differs slightly for PC's versus unix/AIX. For PCs running Windows NT or XP:
  - a. You must first create a new folder to hold the new Immserve files.  
Create a new folder named: C:\Program Files\Immserve85
  - b. In the folder that you just created, unzip the file:  
bi\_\_0850win.zip (which is specifically for NT/XP)

Unix machines running AIX, Linux, or Solaris:

- a. You must first create a new directory to hold the new Immserve files.  
Create a new directory named: /usr/local/Immserve85
- b. In the directory that you just created, untar (tar xvf) the file: bi\_\_0850unix.tar (which is specifically for unix systems)
- c. Important! The unix permissions on the /usr/local/Immserve85 directory you created must be: -rwxr-xr-x

This is accomplished with the unix command:

```
chmod 755 Immserve85
```

**Note:** The untarring of "bi\_\_0850unix.tar" should give the files with a ".so" extension permission attributes of "-rwxr-xr-x". If ordinary users are unable to execute Immserve, check the permissions on this file.

3. Under the KIDS menu select Installation, and then select Load a Distribution.
  - a. At the "Enter a Host File:" prompt, type the filename **bi\_\_0850.k** preceded by the appropriate pathname for your system (for example, /usr/spool/uucpublic/bi\_\_0850.k).
  - b. Answer YES to questions concerning "Continue to load" and "Environmental Check Routine."

4. Under the same KIDS Installation menu, select Install Package.
  - a. Type **IMMUNIZATION 8.5** (or press the spacebar).
  - b. At the "DEVICE:" prompt, select HOME. Do not send the output of this installation to a printer, as there is some user interaction required (you may capture the output to a buffer or print screen).
5. Be sure that the three BIZ Security Keys are assigned to the site manager and immunization program manager. Also check the Site Parameters (IMM→MGR→ESP). Each site parameter presents online help when selected and can be successfully edited by knowledgeable people, even if they have not received training in the package.
6. Enable logins and/or BIMENU.
7. If this software is being used in the “roll and scroll” environment (as opposed to EHR), ensure that a robust terminal emulator is in use on the client machines. Some telnet terminal emulators lack features such as reverse scrolling, highlighting, slave printing, use of function keys, cutting and pasting, etc. NetTerm by Intersoft is an excellent telnet terminal emulator for Windows. Trial license versions may be obtained online at: [www.securenetterm.com](http://www.securenetterm.com)
8. All Site Parameters should be reviewed and edited as necessary on the “Edit Site Parameters Screen” (MGR→ESP).

**Note:** If multiple RPMS sites/facilities are set up on one computer, the Site Parameters for *each site* must be reviewed and updated.

9. Review the Package Setup Information found under the Manager Menu (MGR→PKG), which provides important information on options, security keys, devices, old menu options, the vaccine table, duplicate lot numbers, and more.

**Note:** The Package Setup Information is also printed in an appendix of the Immunization Module user manual.

## 4.1 Routines and Official Checksums

Routine Checksum	
BIAGE	7500
BIAPCHS	8722
BICMGR	3466
BIDTAB	2169
BIDU	8915
BIDU1	4378

<b>Routine Checksum</b>	
BIDUPLT	4209
BIDUPLT1	2020
BIDUR	12447
BIDUR1	3214
BIDUVLS	5673
BIDUVLS1	7998
BIDUVLS2	7448
BIDX	4959
BIENVCHK	4227
BIETAB	1720
BIEXP	3647
BIEXP1	5565
BIEXP2	6249
BIEXP3	3322
BIEXPRT2	6283
BIEXPRT3	10793
BIEXPRT4	3660
BIEXPRT5	11575
BIEXPRT8	1913
BIFMAN	9404
BIHELP	2787
BIHS	1230
BIKEY	3573
BIKEY1	6149
BIKEY2	1519
BILETPR	7076
BILETPR1	14891
BILETPR2	2817
BILETPR3	5350
BILETPR4	2606
BILETVW	4223
BILETVW1	6878
BILETVW2	9391
BILOGO	4867
BILOT	10141
BILOT1	14723

<b>Routine Checksum</b>	
BILOT2	2846
BIMFI	2960
BINFO	1596
BINTEG	4490
BIO	474
BIOUTPT	14174
BIOUTPT1	11002
BIOUTPT2	9447
BIOUTPT3	10830
BIOUTPT4	13014
BIOUTPT5	11067
BIPATCO	4363
BIPATCO1	2125
BIPATCO2	5997
BIPATE	6238
BIPATER	5737
BIPATER1	4690
BIPATPF	4251
BIPATUP	6071
BIPATUP1	13562
BIPATUP2	13531
BIPATUP3	4937
BIPATVW	7314
BIPATVW1	10421
BIPATVW2	11663
BIPATVW3	9414
BIPCC	1433
BIPOST	4322
BIPRE	4967
BIREP	8828
BIREPA	6351
BIREPA1	3894
BIREPA2	7825
BIREPA3	5621
BIREPD	6997
BIREPD1	4912

<b>Routine Checksum</b>	
BIREPD2	9416
BIREPD3	7182
BIREPD4	10790
BIREPF	8801
BIREPF1	5482
BIREPF2	6178
BIREPF3	6146
BIREPF4	8679
BIREPH	6381
BIREPH1	3835
BIREPH2	7691
BIREPH3	7694
BIREPL	7046
BIREPL1	4925
BIREPL2	8963
BIREPL3	10693
BIREPP	5157
BIREPP1	4081
BIREPP2	7121
BIREPP3	5802
BIREPQ	8167
BIREPQ1	5077
BIREPQ2	5299
BIREPQ3	5568
BIREPQ4	10246
BIREPT	7495
BIREPT1	4899
BIREPT2	6677
BIREPT3	4994
BIREPT4	11125
BIREPVP	5542
BIRESTD	5233
BIRPC	9334
BIRPC1	6041
BIRPC2	4026
BIRPC3	9639

<b>Routine Checksum</b>	
BIRPC4	9346
BIRPC5	3565
BIRPC6	3169
BISCAN	6447
BISELEC1	9011
BISELEC2	6000
BISELECT	10196
BISITE	2594
BISITE1	5253
BISITE2	12426
BISITE3	11301
BISITE4	9499
BITEST	1110
BITN	14730
BITN2	8465
BITRS	2385
BITX	441
BITXA	3411
BITXB	3318
BITXC	3594
BIUTL1	13839
BIUTL11	14909
BIUTL2	14395
BIUTL3	7156
BIUTL4	14454
BIUTL5	7346
BIUTL6	13783
BIUTL7	14951
BIUTL8	9410
BIUTLFIX	8264
BIVACED	5555
BIVACED1	5577
BIVGRP	3570
BIVGRP1	3354
BIVISIT	14230
BIVISIT1	8213



<b>Routine Checksum</b>	
BIVISIT2	4747
BIVT100	3352
BIVTAB	3640
BIW	3368
BIXCALL	8020
BIXRPC	5710

## 5.0 Sample Installation

```

Kernel Installation & Distribution System

Edits and Distribution ...
Utilities ...
Installation ...

Select Kernel Installation & Distribution System Option: INstallation

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
       Restart Install of Package(s)
       Unload a Distribution

Select Installation Option: LLoad a Distribution
Enter a Host File: /usr/spool/uucppublic/bi__0850.k
KIDS Distribution saved on Aug 31, 2011@20:49:04
Comment: Immunization v8.5, 09/01/2011, CIM/ER/ Demo User

This Distribution contains Transport Globals for the following Package(s):
  IMMUNIZATION 8.5
Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

Build IMMUNIZATION 8.5 has an Enviromental Check Routine
Want to RUN the Environment Check Routine? YES//
  IMMUNIZATION 8.5
Will first run the Environment Check Routine, BIENVCHK

Use INSTALL NAME: IMMUNIZATION 8.5 to install this Distribution.

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
       Restart Install of Package(s)
       Unload a Distribution

Select Installation Option: install Package(s)

Select INSTALL NAME:   IMMUNIZATION 8.5
Loaded from Distribution  9/7/11@20:20:10
      => Immunization v8.5, 09/01/2011, CIM/ER/Mike Remillard  ;Created on
Aug

This Distribution was loaded on Sep 07, 2011@20:20:10 with header of

```

```
Immunization v8.5, 09/01/2011, CIM/ER/Mike Remillard ;Created on Aug
31, 201
1@20:49:04
```

```
It consisted of the following Install(s):
IMMUNIZATION 8.5
Checking Install for Package IMMUNIZATION 8.5
Will first run the Environment Check Routine, BIENVCHK
```

```
Hello, DEMO USER
```

```
Checking Environment for IMMUNIZATION v8.5
```

```
Need at least XU v8.0.....XU v8.0 Present
Need at least DI v22.....DI v22.0 Present
Need at least BI v8.4.....BI v8.4 Present
```

```
ENVIRONMENT OK.
```

```
Enter RETURN to continue or '^' to exit:
```

```
Install Questions for IMMUNIZATION 8.5
```

```
Incoming Files:
```

```
9000010.11V IMMUNIZATION
```

```
Note: You already have the 'V IMMUNIZATION' File.
```

```
9002084 BI PATIENT
```

```
Note: You already have the 'BI PATIENT' File.
```

```
9002084.01BI CASE MANAGER
```

```
Note: You already have the 'BI CASE MANAGER' File.
```

```
9002084.02BI SITE PARAMETER
```

```
Note: You already have the 'BI SITE PARAMETER' File.
```

```
9002084.1 BI PATIENT IMMUNIZATIONS DUE
```

```
Note: You already have the 'BI PATIENT IMMUNIZATIONS DUE' File.
```

```
9002084.11BI PATIENT CONTRAINDICATIONS
```

```
Note: You already have the 'BI PATIENT CONTRAINDICATIONS' File.
```

```
9002084.12BI PATIENT FORECAST ERRORS
```

```
Note: You already have the 'BI PATIENT FORECAST ERRORS' File.
```

```
9002084.33BI TABLE ERROR CODE (including data)
```

```
Note: You already have the 'BI TABLE ERROR CODE' File.
I will OVERWRITE your data with mine.
```

```
9002084.4 BI LETTER
```

```
Note: You already have the 'BI LETTER' File.
```

9002084.45BI LETTER SAMPLE (including data)  
Note: You already have the 'BI LETTER SAMPLE' File.  
I will OVERWRITE your data with mine.

9002084.61BI USER SELECTIONS  
Note: You already have the 'BI USER SELECTIONS' File.

9002084.62BI USER DATE-LOC LINE  
Note: You already have the 'BI USER DATE-LOC LINE' File.

9002084.63BI USER AGE RANGE  
Note: You already have the 'BI USER AGE RANGE' File.

9002084.7 BI PACKAGE INFORMATION (including data)  
Note: You already have the 'BI PACKAGE INFORMATION' File.  
I will OVERWRITE your data with mine.

9002084.8 BI TABLE REACTION (including data)  
Note: You already have the 'BI TABLE REACTION' File.  
I will OVERWRITE your data with mine.

9002084.81BI TABLE CONTRA REASON (including data)  
Note: You already have the 'BI TABLE CONTRA REASON' File.  
I will OVERWRITE your data with mine.

9002084.82BI TABLE ADD INFO ITEMS (including data)  
Note: You already have the 'BI TABLE ADD INFO ITEMS' File.  
I will OVERWRITE your data with mine.

9002084.91BI TABLE DATA ELEMENT (including data)  
Note: You already have the 'BI TABLE DATA ELEMENT' File.  
I will OVERWRITE your data with mine.

9002084.93BI TABLE VACCINE GROUP (SERIES TYPE) (including data)  
Note: You already have the 'BI TABLE VACCINE GROUP (SERIES TYPE)' File.  
I will OVERWRITE your data with mine.

9002084.94BI IMMUNIZATION TABLE HL7/CVX STANDARD  
Note: You already have the 'BI IMMUNIZATION TABLE HL7/CVX STANDARD' File.

9002084.95BI TABLE NDC CODES (including data)  
Note: You already have the 'BI TABLE NDC CODES' File.  
I will OVERWRITE your data with mine.

9002084.97BI TABLE MANUFACTURERS (including data)  
Note: You already have the 'BI TABLE MANUFACTURERS' File.  
I will OVERWRITE your data with mine.

```
9999999.04IMM MANUFACTURER
Note: You already have the 'IMM MANUFACTURER' File.

9999999.41IMMUNIZATION LOT
Note: You already have the 'IMMUNIZATION LOT' File.

Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO

Want KIDS to INHIBIT LOGONs during the install? YES// NO

Enter the Device you want to print the Install messages.
Enter a '^' to abort the install.

DEVICE: HOME// Virtual
-----

Install Started for IMMUNIZATION 8.5 :
          Sep 07, 2011@20:20:29

Build Distribution Date: Aug 31, 2011

Installing Routines:
          Sep 07, 2011@20:20:31

Running Pre-Install Routine: ^BIPRE

Installing Data Dictionaries:
          Sep 07, 2011@20:20:32

Installing Data:
          Sep 07, 2011@20:20:32

Installing PACKAGE COMPONENTS:

Installing SECURITY KEY

Installing FUNCTION

Installing PRINT TEMPLATE

Installing INPUT TEMPLATE

Installing FORM

Installing PROTOCOL

Installing REMOTE PROCEDURE

Installing LIST TEMPLATE

Installing OPTION
          Sep 07, 2011@20:20:33

Running Post-Install Routine: ^BIPOST

Please hold....
```

```
Checking Lot Numbers for null Status...

Done.  3 Lot Numbers have been fixed.

Press ENTER/RETURN to continue or "^" to exit:

                * NOTE! *

        Do not forget to complete the Immserve part of the installation!!

                * NOTE! *

Press ENTER/RETURN to continue or "^" to exit:

        - This concludes the Post-Initialization program. -

                * CONGRATULATIONS! *

        You have successfully installed Immunization v8.5.

Press ENTER/RETURN to continue or "^" to exit:

Updating Routine file...
Updating KIDS files...
IMMUNIZATION 8.5 Installed.
        Sep 07, 2011@20:20:49

Install Completed
```

Figure 5-1: Shows the screens that will display during a typical installation

## Contact Information

If you have any questions or comments regarding this distribution, please contact the OIT Help Desk (IHS).

**Phone:** (505) 248-4371 or (888) 830-7280 (toll free)

**Fax:** (505) 248-4363

**Web:** <http://www.ihs.gov/GeneralWeb/HelpCenter/Helpdesk/index.cfm>

**Email:** [support@ihs.gov](mailto:support@ihs.gov)