



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Immunization Interface Management

(BYIM)

Installation Guide and Release Notes

Version 2.0

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

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DOCUMENT VERSION HISTORY

Version	Date	Notes
1.0	August 2005	Initial version
1.01	June 2008	Allows automated exchange of information via HL7 Bridge (not part of RPMS package), ability to add HIPAA-compliant secured directories for in/outbound files. Allows automatic importation of state immunization data into RPMS
2.0	April 2010	Added the ability to expand age groups included in export to include 65 and older or all ages; the ability to exit (^) the manual export process; the ability to sort the NO MATCH report by patient name, date of birth, or import file date, and include a reason for each No Match; new statistical report for the number of children and immunizations in both the export and import processes, including the VFC status. Retitled manual from Immunization Data Exchange to Immunization Interface Management (IIMM)

1.0 Release Notes

Immunization Interface Management (BYIM), also known as Immunization Data Exchange, is a two-way Generic Interface System (GIS) HL7 interface that allows the exchange of immunization data for children from birth (0) to 19 years of age with State immunization registries.

The RPMS side of Immunization Interface Management Menu (IIMM) sends the complete immunization history for each child to the respective state registry. IIMM is also capable of receiving and processing immunization data that is returned from the State registries.

Version 2.0 adds the following functionality:

1. Provides the ability to expand the age groups to either include 65 and older or all ages
2. Includes statistical reports for the number of children and immunizations in both the export and import processes
3. Includes the VFC status
4. Provides the ability to sort the NO MATCH report by import date and date of birth (DOB), as well as name
5. Includes a reason for each NO MATCH
6. Ability to exit (by typing a caret [^]) the manual export process

Note: Retitled manual from Immunization Data Exchange to Immunization Interface Management (IIMM)
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2.0 Installation Notes

Prefix: BYIM

Current Version: 2.0

Note: Read entire notes file prior to attempting any installation.

2.1 Contents of Distribution

byim0200.k - KIDS file

byim0200.g - Global file

byim020i.pdf - Installation Guide and Release Notes

byim020u.pdf - User Manual

byim020t.pdf - Technical Manual

2.2 System Requirements

Kernel (XU) v8.0 or higher

FileMan (DI) v22 or higher

IHS/VA Utilities (XB/ZIB) v3.0 patch 11

IHS Patient Dictionaries (AUPN) v99.1 patch 17

Patient Information Management (PIMS) v5.3 patch 1006 or
MAS V5 (DG/SD) patch 8, if still in use

Generic Interface (GIS) v3.0 patch 14

IHS Immunization System (BI) v8.1 or higher

For sites with the ability to transmit immunization data to/from their state immunization registry automatically, the HL7 Communications Bridge

Note: The site must have an account with their State Immunization Registry for HTTPS secured transfer of the immunization data to the state.

2.3 Before You Begin

Make a copy of this distribution for offline storage.

Print all notes/readme files.

We recommend that you create a printed audit trail, in case there are any problems with the installation.

To capture terminal output during the installation, use an auxport printer attached to the terminal on which you are performing the installation.

Make sure you have the correct database privileges.

If your site is set up to transmit immunization data to/from your state immunization registry, you must complete the following steps:

Download the third party, HL7 Communications Bridge from the STC Web site:

<http://www.stchome.com/downloads/hl7bridge.zip>.

The bridge software is in a password protected Zip file.

Contact the OIT User Support (IHS) to obtain the password:

Email: support@ihs.gov

Phone: (888) 830-7280 (toll free)

3.0 Installation Instructions

1. At the prompt, kill the global **^INXPORT**.
2. Do a global restore of the **byim0200.g** file.

Cache install:

- a. At the prompt, type **D ^%GI**.
 - b. At the “Device” prompt, enter the path followed by the global file name.
For example: Unix: **/usr/import/byim0200.g**
Windows: **d:\import\byim0200.g**
 - c. At the “Input option” prompt, type **A**.
 - d. At the next three prompts, press the Enter key to continue.
3. At the system prompt, type **D ^XUP** to enter the kernel.
 4. Select Option Name: **XPD MAIN** (KIDS Menu).
 5. Select the Kernel Installation & Distribution System option: **Installation**.
 - a. Select Installation Option **1**, Load a Distribution.
 - b. Enter the path filename of the Host File, **byim0200.k**.
For example: **/usr/spool uucppublic/byim0200.k**
 - c. At the “OK to continue with Load?” prompt, type **Y** and press the Enter key.
 - d. At the “Want to Continue with Load?” prompt, press Enter (Yes).
 - e. At the “Want to RUN the Environment Check Routine?” prompt, press the Enter key (Yes).
 6. Select Installation Option **2**, Verify Checksums in Transport Global.

Install name: **BYIM Immunization Data Exchange Interface 2.0**
 7. At the “DEVICE:” prompt, do one of the following:

Press the Enter key to print the output to your terminal, or
Enter the auxport printer to print the output on paper.
 8. Select Installation Option **6**, Install Package(s).

Install name: **BYIM Immunization Data Exchange Interface 2.0**
 9. At the “DEVICE:” prompt, do one of the following:

Press the Enter key to print the output to your terminal, or
 Enter the auxport printer to print the output on paper.

10. At the “Yes or No??” prompt to clean out existing subfields from all fields, fields, form all segments, and segments from all messages, type **Y** and press the Enter key.
11. After the installation is complete:
 - a. Assign the BYIM menu and security key to the authorized users.

BYIMZMENU	For all users who need access to Immunization Data Exchange
BYIMZ IZ EXPORT	For users who need access to manually export immunizations.
BYIM IZ AUTO IMPORT BYIM IZ TEST EXPORT BYIM SET PARAMETERS	For user(s) responsible for management of Immunization Data Exchange

- b. Add the BYIMMENU option to the appropriate RPMS menu.

4.0 Sample Installations

4.1 Sample Cache Install

```
PRD>K ^INXPORT <Enter>

PRD>D ^%GI <Enter>

Global input

Device: /usr/spool/uucppublic/byim0200.g Parameters: "RS"=>
Globals were saved on 28 SEPTEMBER 2008 7:58 PM Cache with description:
Input option: A <Enter>
^INXPORT

Check that the file has been restored successfully:

PRD>D ^%G <Enter>

Device: Right margin: 80=> <Enter>

Global ^INXPORT <ENTER> (the global is displayed)

PRD>D ^XUP <Enter>

Setting up programmer environment
Terminal Type set to: C-VT100

You have 2 new messages.
Select OPTION NAME: XPD MAIN <Enter> Kernel Installation & Distribution
System

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

Select Kernel Installation & Distribution System Option: INSTALLATION
<Enter>

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: 1 <Enter> Load a Distribution

Enter a Host File: /usr/spool/uucppublic/byim0200.k <Enter>
```

```
KIDS Distribution saved on SEPTEMBER 28, 2008@18:20:07
Comment: BYIM Immunization Data Exchange Interface Version 2.0

This Distribution contains Transport Globals for the following Package(s):
Build BYIM Immunization Data Exchange Interface 2.0

OK to continue with Load? NO// Y <Enter> Yes

Distribution OK!

Want to Continue with Load? YES// <Enter> Yes
Loading Distribution...

Build BYIM Immunization Data Exchange Interface 2.0 has an Environmental
Check Routine
Want to RUN the Environment Check Routine? YES// <Enter> Yes

    BYIM Immunization Data Exchange Interface 2.0
Will first run the Environment Check Routine, BYIMIMM
Use INSTALL NAME: BYIM Immunization Data Exchange Interface 2.0 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

You have 50 PENDING ALERTS
    Enter "VA to jump to VIEW ALERTS option

Select Installation Option: 2 <Enter> Verify Checksums in Transport Global
Select INSTALL NAME:      BYIM IMMUNIZATION DATA EXCHANGE V 2.0    Loaded
from Distribution        Loaded from Distribution 9/28/08@21:21:58
    => BYIM Immunization Data Exchange Version 2.0 ;Created on Sep 18

This Distribution was loaded on Sep 29, 2008@21:21:58 with header of
    BYIM Immunization Data Exchange Version 2.0 ;Created on Sep 18,
2008@13:03:08
    It consisted of the following Install(s):
BYIM IMMUNIZATION DATA EXCHANGE V 2.0
DEVICE: HOME// <Enter>

PACKAGE: BYIM IMMUNIZATION DATA EXCHANGE V 2.0 Sep 29, 2008 9:22 pm PAGE 1
-----

    6 Routine checked, 0 failed.
```

```

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: 6 <Enter>  Install Package(s)

Select INSTALL NAME:      BYIM Immunization Data Exchange Interface 2.0
Loaded from Distribution      Loaded from Distribution  9/28/08@20:28:06
=> BYIM Immunization Data Exchange Interface Version 2.0  ;Created

This Distribution was loaded on SEPTEMBER 28, 2008@20:28:06 with header of
BYIM Immunization Data Exchange Interface Version 2.0  ;Created on
SEPTEMBER 28, 2008@18:20:07
It consisted of the following Install(s):
BYIM Immunization Data Exchange Interface 2.0
Checking Install for Package BYIM Immunization Data Exchange Interface 2.0
Will first run the Environment Check Routine, BYIMIMM

Install Questions for BYIM Immunization Data Exchange Interface 2.0

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME// <Enter>
*****

Install Started for BYIM Immunization Data Exchange Interface 2.0 :
      SEPTEMBER 28, 2008@20:28:16

Build Distribution Date: SEPTEMBER 28, 2008

Installing Routines:
      SEPTEMBER 28, 2008@20:28:16

Running Pre-Install Routine: MPORT^BYIMIMM
Importing GIS HL Supplement IZV04, developing site IHS

Want to clean out existing sub-fields from all fields, fields from all
segments and segments from all messages?

Yes or No?? NO// Y <Enter>  Yes

Generation for message: HL IHS IZV04 IN.
The following scripts were generated:
      Generated: HL IHS IZV04 IN-I
    
```

```
Compiling Script: Generated: HL IHS IZV04 IN-I
DATA section.....
TRANS section.....
REQUIRED section.....
END section.

Compile completed with 0 warnings and 0 errors.

Linking...  Filing generated routines...

Routine IS00016    ...Filed
Routine IS00016A  ...Filed
Routine IS00016B  ...Filed

Generation for message: HL IHS IZV04 OUT.

The following scripts were generated:
    Generated: HL IHS IZV04 OUT-O

Compiling Script: Generated: HL IHS IZV04 OUT-O..
MUMPS section.....
DATA section.....
END section.

Compile completed with 0 warnings and 0 errors.
Linking...  Filing generated routines...

Routine IS00017    ...Filed
Routine IS00017A  ...Filed
Routine IS00017B  ...Filed
Routine IS00017C  ...Filed

Generation for message: HL IHS IZV04 BATCH HEADER.

The following scripts were generated:
    Generated: HL IHS IZV04 BATCH HEADER-O

Compiling Script: Generated: HL IHS IZV04 BATCH HEADER-O

DATA section.....
END section.

Compile completed with 0 warnings and 0 errors.
Linking...  Filing generated routines...

Routine IS00019    ...Filed

Generation for message: HL IHS IZV04 BATCH FOOTER.

The following scripts were generated:
    Generated: HL IHS IZV04 BATCH FOOTER-O
```

```
Compiling Script: Generated: HL IHS IZV04 BATCH FOOTER-O
DATA section.....
END section.
Compile completed with 0 warnings and 0 errors.
Linking...  Filing generated routines...

Routine IS00020    ...Filed

Finished Importing GIS Supplement

  Installing PACKAGE COMPONENTS:

  Installing SECURITY KEY

  Installing PROTOCOL

  Installing LIST TEMPLATE

  Installing OPTION
                SEPTEMBER 28, 2008@20:28:22
Updating Routine file...

Updating KIDS files...

BYIM Immunization Data Exchange Interface 2.0 Installed.
                SEPTEMBER 28, 2008@20:28:22

No link to PACKAGE file

Install Completed
```

Figure 4-1: Sample cache installation

5.0 Contact Information

If you have any questions or comments regarding this distribution, please contact OIT User Support (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