



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Immunization Interface Management

(BYIM)

Addendum to User Manual

Version 2.0 Patch 10
June 2019

Office of Information Technology
Division of Information Resource Management

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1.0 Introduction

Please review these changes and add a copy of them to any printed documentation your site may be using for the Indian Health Service (IHS) BYIM version 2.0 (v2.0) component. These changes will be integrated into future versions of the software and user manuals. These changes will no longer be considered an addendum at the time of the next version release.

This addendum only provides written guidance on changes made in the patch that are relevant to the user. To see a list of all changes please refer to the patch notes for each of the respective patches.

1.1 Summary of Changes

- The HL7 file format changes/additions below were made to the Immunization Data Exchange Parameters to comply with current CDC-HL7 Immunization Data Exchange standards:
 - Ability to choose HL7 version 2.5.1 R1.5 2016+.
 - NPI is included in ORC-12 segment when available.
 - Message Profile ID to MSH-21 and Responsible Sending Organization added to MSH-22 segment.
 - Added ability to use NDC code instead of CVX or CPT codes to identify administered vaccines in RXA-5.
 - Option to exclude PV1 segment.
 - Name identifier ‘M’ to PID-6.7, Mother’s Maiden Name component added.
 - MSH-7 segment contains date/time the message was created in the format: YYYYMMDDHHMMSS along with time offset.
 - MSH-15 segment will be sent as ‘ER’ to indicate the receiving application will only send an Acknowledgement message when an error occurred.
 - ‘ML’ in RXA-7 changed to ‘mL’ when there is a numeric value for volume of an administered vaccine in RXA-6.
 - PID-10.3 race code identifier changed to ‘CDCREC’
- Added the ability to allow division-specific exports for both primary and secondary data exchange state export.

2.0 Patch 10 Changes

2.1 BYIM Menu Changes

The main menu **SET** option label is changed from **SET (SET UP Immunization Data Exchange Parameters)** to **SET (SETUP Options)**. See Figure 2-1.

```

BYIM VERSION: 2.0 P 10                                NEXT EXP: NOT SCHED
HL7 VERSION: 2.5.1 R1.5 2016+                          NEXT IMP: NOT SCHED
OUTPUT CONTROLLER: RUNNING
FORMAT CONTROLLER: RUNNING

  IZDE  Start Immunization Data Export
  IZS   Check Immunization Data Export Status
  IZIM  Import Immunizations from State Registry
  IZAD  Add Immunizations from State Registry
  EXP   Show Immunizations Exported for a Patient
  IZFS  File Statistics Report
  NO    Imported Patients NOT found in RPMS
  TEST  Create TEST Export File
  SET   SETUP Options ...
    
```

Figure 2-1: BYIM menu

When the user selects SET, new submenus display, as shown in Figure 2-2.

- **SET:** SET UP Immunization Data Exchange Parameters
- **ADD:** Define Additional Data Exchange States
- **IIS:** Add/Edit IIS Assigned Vaccine Inventory Codes
- **REL:** Review and Edit BYIM RELATIONSHIP Table Codes

```

BYIM VERSION: 2.0 P 10                                NEXT EXP: NOT SCHED
HL7 VERSION: 2.5.1 R1.5 2016+                          NEXT IMP: NOT SCHED
OUTPUT CONTROLLER: RUNNING
FORMAT CONTROLLER: RUNNING

  SET   SET UP Immunization Data Exchange Parameters
  ADD   Define Additional Data Exchange States
  IIS   Add/Edit IIS Assigned Vaccine Inventory Codes
  REL   Review and Edit BYIM RELATIONSHIP Table Codes
    
```

Figure 2-2: SET submenu

2.2 SET (Immunization Data Exchange Parameter) Changes

Users will see a display of the current data exchange parameters for the primary site/division (Figure 2-3).

```

State: DEMO HOSPITAL
Path...: C:\SMM\test\requests\          Ages...: 18 AND UNDER
MSH-3.1: RPMS              MSH-3.2:          MSH-3.3:
MSH-4.1: 2532              MSH-4.2:          MSH-4.3:
MSH-5.1: STATE IIS        MSH-5.2:          MSH-5.3:
MSH-6...:                  MSH-8...: 56473829  Version: 2.5.1 R1.5 2016+
MSH21.1: Z22              MSH21.2: CDCPHINVS MSH-22.: PRIMARY STATE
PID11.7: LEGAL
PD1-3.1: IHS              PD1-3.2:          PD1-3.3:
RXA-5.1: CPT ONLY         RXA-6.1: 999
File Extension.....: dat          Protection Indicator: PI NOT NEEDED
Include/Exclude SSN.: EXCLUDE SSN  Include Insurance...: YES
Include/Exclude PV1.: EXCLUDE PV1  Exchange State.....: OKLAHOMA
    
```

Figure 2-3: Current parameter display

The user is given the option to edit parameters for the primary export state, add specific facilities for the primary state export, or add IIS codes to the primary export state (Figure 2-4).

```

Select one of the following:

1  Edit parameters for (primary export state)
2  Add specific FACILITY(IES) for (primary export state) export
3  Add (primary export state) specific IIS code(s)
    
```

Figure 2-4: Primary state options

2.2.1 Edit Parameters for (Primary Export State)

The new and modified parameter settings are as follows (see Figure 2-5):

- Version in use: MSH-12: **2.5.1 R1.5 2016+** added as a selection option
- CVX or CPT for RXA-5: **NDC** added as a selection option.
- Exclude PV1 SEGMENT: Select **0 (Exclude PVI)** or **1 (Include PVI)**.

```

Version in use          MSH-12...: 2.5.1 R1.5 2016+// ??

Choose from:
1      2.3.1
2      2.4
3      2.5.1 R1.5 <2016
4      2.5.1 R1.5 2016+

CVX or CPT or NDC for RXA-5...: CPT ONLY// ??

Choose from:
0      CVX ONLY
1      CPT ONLY
2      CVX AND CPT
3      NDC ONLY

EXCLUDE PV1 SEGMENT.....: EXCLUDE PV1// ??
    
```

```

Choose from:
  0      EXCLUDE PV1
  1      INCLUDE PV1

State site exchanges with.....: (primary export state)//
    
```

Figure 2-5: New and modified parameters

2.2.2 Add Specific Facility(ies) for (Primary Export State) Export

This menu option presents the following selections:

1. **Select Facility to include in the export.** Select option **1** to add facilities to a specific state export. A list of available facilities displays. When you select a facility, the following options display:
 - **Edit IIS Facility Code for**
 - **State IIS Facility Code**

```

Which option: 1 Select Facility to include in the export

      Facility(ies) to include in the
No.  NEW MEXICO Additional state export      NEW MEXICO IIS Code
---  -----
  1   2013 DEMO HOSPITAL (4711)              NM_TEST_4711

Select another Facility to include in the export: CIMARRON HOSPITAL
TUCSON      01

Edit IIS Facility Code for: CIMARRON HOSPITAL
State IIS Facility Code...: NM_CIM_4585//

      Facility(ies) to include in the
No.  NEW MEXICO Additional state export      NEW MEXICO IIS Code
---  -----
  1   CIMARRON HOSPITAL (4585)              NM_CIM_4585
  2   2013 DEMO HOSPITAL (4711)            NM_TEST_4711

Select another Facility to include in the export:
    
```

Figure 2-6: Add additional facility

2. **Remove Facility from the export.** Select option **2** to remove a facility from the state export. When you select a facility to remove from the list of currently assigned facilities, a new list displays reflecting the removal.

2.2.3 Add (Primary Export State) Specific IIS Code(s)

Select this menu option to add, edit, or delete an IIS-assigned vaccine inventory location code for facilities configured to export to the primary export state.

The selection options are as follows:

1. **Edit a listed Code**
2. **Add IIS Code for another Facility**
3. **Delete IIS Code for a Facility**

```

ARIZONA IIS Assigned Vaccine Inventory Location Code

      NO.  Facility                                     IIS Code
      ---  -
      1    2013 DEMO CLINIC (IEN 2907)                 SIIDEMOCLINIC
      2    2013 DEMO HOSPITAL (IEN 2906)                UNMH
      3    2013 DEMO TRIBAL HOSPITAL (IEN 2908)         ISSTRIBAL

Select one of the following:

      1          Edit a listed Code
      2          Add IIS Code for another Facility
      3          Delete IIS Code for a Facility

Enter response:
    
```

Figure 2-7: IIS code options

2.2.4 Define Additional Data Exchange States

Option changes are as follows:

1. The **Define Additional Data Exchange Sites** option name is changed to **Define Additional Data Exchange States**.
2. The option now allows multi-divisional sites to set up division-specific exports for both primary and secondary data exchange state export. **Add specific FACILITY(IES) for State export** is added to the **Edit State** selection list.
3. The user is given the option to add more facilities to the export or delete facilities from the export.

```

Additional EXPORT State Directories

NUM  STATE
---  -
1    COLORADO
      OUTBOUND: d:\hl7bridge\colorado\requests
      INBOUND:  d:\hl7bridge\colorado\responses
      Export to COLORADO Only immunizations given at:
      FACILITY: 2013 DEMO HOSPITAL (2906)
2    NEW MEXICO
      OUTBOUND: d:\hl7bridge\new_mexico\requests
      INBOUND:  d:\hl7bridge\new_mexico\responses
      Export to NEW MEXICO Only immunizations given at:
    
```

```

FACILITY: 2013 DEMO TRIBE (978)      IIS CODE: NM_DEMO_978
FACILITY: 2013 DEMO HOSPITAL (2906)
FACILITY: 2013 DEMO CLINIC (2907)   IIS CODE: XYZ2019

Select one of the following:

1          Edit state
2          Add state
3          Delete state

Enter response: 1 Edit state

State: COLORADO
Path...: d:\hl7bridge\colorado\requests      Ages...: ALL AGES
MSH-3.1: CORPMS          MSH-3.2:          MSH-3.3:
MSH-4.1: CORPMS          MSH-4.2:          MSH-4.3:
MSH-5.1: CORPMS          MSH-5.2:          MSH-5.3:
MSH-6...: comsh6        MSH-8...: CORPMS      Version: 2.5.1 R1.5
<2016
MSH21.1: Z22            MSH21.2: CDCPHINVS      MSH-22.: COLORADO
PID11.7: PERMANENT
PD1-3.1: CORPMS          PD1-3.2:          PD1-3.3:
RXA-5.1: CVX ONLY        RXA-6.1: 888
File Extension.....: hl7          Protection Indicator: PI NOT NEEDED
Include/Exclude SSN.: EXCLUDE SSN      Include Insurance...: NO
Include/Exclude PV1.: INCLUDE PV1      Exchange State.....: COLORADO

Select one of the following:

1          Edit parameters for COLORADO
2          Add specific FACILITY(IES) for COLORADO export
3          Add COLORADO specific IIS code(s)

Which ADDITIONAL export function for COLORADO: 2 Add specific
FACILITY(IES) for COLORADO export

Facility(ies) to include in the
No. COLORADO Additional state export      COLORADO IIS Code
--- -----
1    2013 DEMO HOSPITAL (2906)

Select one of the following:

1          Select Facility to include in the export
2          Remove Facility from the export

Facility(ies) to include in the
No. COLORADO Additional state export      COLORADO IIS Code
--- -----
1    2013 DEMO HOSPITAL (2906)

Select another Facility to include in the export: 2013 DEMO CLINIC

Facility(ies) to include in the
No. COLORADO Additional state export      COLORADO IIS Code
--- -----
1    2013 DEMO CLINIC (2907)
    
```



```

2      2013 DEMO HOSPITAL (2906)
Select one of the following:

1          Select Facility to include in the export
2          Remove Facility from the export

State: COLORADO
Path...: d:\hl7bridge\colorado\requests          Ages...: ALL AGES
MSH-3.1: CORPMS          MSH-3.2:          MSH-3.3:
MSH-4.1: CORPMS          MSH-4.2:          MSH-4.3:
MSH-5.1: CORPMS          MSH-5.2:          MSH-5.3:
MSH-6...: comsh6          MSH-8...: CORPMS          Version: 2.5.1 R1.5
<2016
MSH21.1: Z22          MSH21.2: CDCPHINVS          MSH-22.: COLORADO
PID11.7: PERMANENT
PD1-3.1: CORPMS          PD1-3.2:          PD1-3.3:
RXA-5.1: CVX ONLY          RXA-6.1: 888
File Extension.....: hl7          Protection Indicator: PI NOT NEEDED
Include/Exclude SSN.: EXCLUDE SSN          Include Insurance...: NO
Include/Exclude PV1.: INCLUDE PV1          Exchange State.....: COLORADO

Select one of the following:

1          Edit parameters for COLORADO
2          Add specific FACILITY(IES) for COLORADO export
3          Add COLORADO specific IIS code(s)
    
```

Figure 2-8: Add facilities to state export

Acronym List

Acronym	Meaning
CDC	Centers for Disease Control and Prevention
HL7	Health Level Seven
IHS	Indian Health Service
IIS	Immunization Information System
RPMS	Resource and Patient Management System

Contact Information

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

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

Web: <https://www.ihs.gov/helpdesk/>

Email: support@ihs.gov