



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Immunization Interface Management

(BYIM)

Technical Manual

Version 3.0
September 2020

Office of Information Technology
Division of Information Technology

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Revision History

Version	Date	Notes
1.0	August 2005	Initial version
1.01	June 2008	Provides additional data structure and programming to allow automated exchange of the files created by the interface with the state immunization registries; allows for 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 (BYIM)
2.08	July 2017	The following sections were modified based on changes for BYIM Version 2.0 patch 8 <ul style="list-style-type: none"> • Section 2.2 (System Requirements) – Update Generic Interface version • Section 3.0 (BYIM Menu) – Add new options • Section 4.0 (Routines) – Add new routines • Section 5.0 (Files and Tables) – Add new files • Section 9.1 (System Documentation) – Change %XINDEX to XINDEX Update for 508 compliance
2.10	September 2019	The following sections were modified based on changes for BYIM Version 2.0 patch 10 <ul style="list-style-type: none"> • Section 2.2 (System Requirements) – Update patch levels • Section 2.3 (Security Keys) – Add new security key • Section 4.0 (Routines) – Add new routines • Section 5.0 (Files and Tables) – Add new files Section 7.2 (Callable Routines) – Add new entry points
3.0	September 2020	The following sections were modified based on changes for BYIM Version 3.0 <ul style="list-style-type: none"> • Section 2.3 (Security Keys) – Add new security key • Section 4.0 (Routines) – Add new routines • Section 5.0 (Files and Tables) – Add new files Section 7.2 (Callable Routines) – Add new entry points

Preface

This manual contains the complete technical programming information related to the updates to this version of the Indian Health Service Resource and Patient Management System Immunization Interface Management system.

1.0 Introduction

Immunization Interface Management (namespace BYIM), also known as Immunization Data Exchange, allows a two-way exchange of immunization data between facilities running the Resource and Patient Management System (RPMS) Patient Care Component (PCC) and State Immunization Information Systems (SIIS). Immunization Interface Management Menu (BYIM) uses secured data exchange via secure Internet protocols to meet Health Insurance Portability and Accountability Act (HIPAA) data security requirements for exchange of information between Indian Health Service (IHS) and Tribal facilities and state registries.

Version 3.0 provides new functionality for Centers for Disease Control and Prevention (CDC) Immunization Guide 2.5.1 R1.5 Query and Response capabilities to send both patient's immunizations to the SIIS and to query the SIIS to determine which immunizations the SIIS has listed for the patient.

Version 3.0 also ensures compliance with Certified Health Information Technology (CHIT) 15 National Institute of Standards and Technology (NIST) requirements and various state-specific message requirements.

This manual provides IHS site managers with a technical description of the BYIM routines, files, menus, cross references, globals, and other necessary information required to effectively manage the system.

All routines, files, options, and keys are namespaced starting with the letters "BYIM."

The file number range for this package is 90480–90480.99.

2.0 Orientation

There is no special orientation for this package.

3.0 Implementation and Maintenance

3.1 General Information

The BYIM system resides in the BYIM namespace, and all related options, security keys, routines, and globals are namespaced BYIM.

3.2 System Requirements

- Kernel (namespace XU) v8.0 patch 1018 or later
- FileMan (namespace DI) v23 patch18 or later
- Generic Interface (namespace GIS) version 3.01 with latest patches
- IHS Immunization System (namespace BI) v8.5 patch 19 or later
- For sites with the ability to transmit immunization data to/from their state immunization registry automatically, the Simple Message Mover software.

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

3.3 Package-wide Variables

BYIM has no package-wide variable.

3.4 Security Keys

Table 3-1 lists the BYIM security keys.

Table 3-1: Security keys by name with descriptions

Key Name	Description
BYIMZMENU	Controls access to the primary menu option.
BYIMZ IZ ADDITIONAL STATES	Controls access to the BYIM IZ ADDITIONAL STATES option, which is used to setup parameters for additional states.
BYIMZ IZ EXPORT	Controls access to the immunization export function.
BYIMZ IZ RT MESSAGES	Controls access to the option BYIM IZ RT MESSAGES which accesses the Query/Response real-time message functions.
BYIMZ IZ TEST EXPORT	Controls access to the option to create an initial small immunization data export file in order to test the data exchange process.
BYIMZ SET PARAMETERS	Controls access to the option to set parameters for the Immunization Data Exchange.

4.0 BYIM Menu

Table 4-1 lists the BYIM menu options.

Table 4-1: BYIM menu options with menu text and keys

Name	Menu Text	Key
BYIMMENU	Immunization Interchange Management Menu	BYIMZMENU
BYIM IZ ADDITIONAL STATES	Define Additional Data Exchange States	BYIMZ IZ ADDITIONAL STATES
BYIM IZ AUTO EXPORT	Entry Point for Auto export	<No Security Key>
BYIM IZ EXPORT	Start Immunization Data Export	BYIMZ IZ EXPORT
BYIM IZ EXPORT SELECTED PATIENTS	Export Selected Patients	<No Security Key>
BYIM IZ FACILITY EXPORT	Facility Specific Export	BYIMZ IZ FACILITY EXPORT
BYIM IZ FILE STATISTICS REPORT	File Statistics Report	<No Security Key>
BYIM IZ PURGE OLD QUERY/RESP	Purge old Query/Response Messages	<No Security Key>
BYIM IZ READY	Check Immunization Data Export Status	BYIMZ IZ EXPORT
BYIM IZ RT MESSAGES	Immunization Queries	BYIMZ IZ RT MESSAGES
BYIM IZ SCHEDULED APPT QUERY	Daily Scheduled Appts Query	<No Security Key>
BYIM IZ SETUP MENU	SETUP Options	BYIMZ SET PARAMETERS
BYIM IZ SHOW EXPORTS	Show Immunizations Exported for a Patient	<No Security Key>
BYIM IZ TEST EXPORT FILE	Create TEST Export File	BYIMZ IZ TEST EXPORT
BYIM SET PARAMETERS	SET UP Immunization Data Exchange Parameters	BYIMZ SET PARAMETERS

5.0 Routines

5.1 Routines with Description

Table 5-1 lists the BYIM routines and their descriptions.

Table 5-1: Routines and descriptions

Routine	Description
BYIMAPI	Manages external calls for query/response functionality.
BYIMD	BYIM Utility functions
BYIMIMM	Manages primary data export, import, and review functions
BYIMIMM1	Extension of BYIMIMM
BYIMIMM2	Extension of BYIMIMM
BYIMIMM3	Extension of BYIMIMM
BYIMIMM4	Extension of BYIMIMM
BYIMIMM5	Extension of BYIMIMM
BYIMIMM6	Extension of BYIMIMM
BYIMIMM7	Extension of BYIMIMM
BYIMIMM8	Extension of BYIMIMM
BYIMMU2	Setup for MU2/NIST testing
BYIMMU21	Extension of BYIMMU2
BYIMMU22	Extension of BYIMMU2
BYIMPATC	Entry for all patch updates
BYIMPORT	Manages GIS installation process
BYIMQSG	Manages creation of Query HL7 message content
BYIMRT	Manages Query/Response creation
BYIMRT1	Continuation of BYIMRT
BYIMRT2	Continuation of BYIMRT
BYIMSEGS	Controls HL7 segment creation
BYIMSEG1	Extension of BYIMSEGS
BYIMSEG2	Extension of BYIMSEGS
BYIMXIS	Controls device handling

6.0 Files and Tables

6.1 File List

Table 6-1: File numbers, names, and descriptions

File #	Filename	Description
90480	IZ PARAMETERS	Data fields for all BYIM needed parameters
90480.1	IZ EXPORTS	Database of all BYIM exports
90480.2	IZ HL7 MESSAGES	Database for all HL7 messages sent and received via VXU and query and response messages
90480.3	IZ TRANSPORT FILES	Database for transported files. Included for backward compatibility
90480.4	IZ OBX SEGMENTS	Database of OBX segments. Included for backward compatibility
90480.5	IZ NOS TABLE	Database of vaccine NOS relations. Included for backward compatibility
90480.6	IZ RELATIONSHIP MAPPING	Database of CDC Guide relationship code cross walk
90480.7	IZ CDC RELATIONSHIP CODES	Database of CDC guide relationship codes
90480.8	IZ CONTRAINDICATION CODES	Database of CDC guide vaccine contraindications
90480.9	IZ HL7 SEGMENTS AND FIELDS	Database of HL7 segments and fields used for ACK message and error processing
90480.91	IZ TABLE VIS BARCODES	Database of CDC VIS barcodes and related vaccines

6.2 File Access

Table 6-2: Access by file numbers and file names

File #	File Name	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS	AUDIT ACCESS
90480	IZ PARAMETERS	@	M	M	@	M	@
90480.1	IZ EXPORTS	@	M	M	M	M	@
90480.2	IZ HL7 MESSAGES	@	M	M	M	M	@
90480.3	IZ TRANSPORT FILES	@	M	M	M	M	@
90480.4	IZ OBX SEGMENTS	@	@	@	@	@	@
90480.5	IZ NOS TABLE	@	@	@	@	@	@
90480.6	IZ RELATIONSHIP MAPPING	@	@	@	@	@	@

File #	File Name	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS	AUDIT ACCESS
90480.7	IZ CDC RELATIONSHIP CODES	@	@	@	@	@	@
90480.8	IZ CONTRAINDICATION CODES	@	@	@	@	@	@
90480.9	IZ HL7 SEGMENTS AND FIELDS	@	@	@	@	@	@
90480.91	IZ TABLE VIS BARCODES	@	@	@	@	@	@

6.3 Cross-References

Table 6-3: Cross-references by file numbers, names, and fields

File #	Filename	Sub-File Name	Number	Field #	Field Name	Cross Reference
90480	IZ PARAMETERS			.01	SITE NAME	B
90480	IZ PARAMETERS	FILE IMPORT/EXPORT LOG	90480.02	.01	FILE IMPORTED/EXPORTED	FILE
90480	IZ PARAMETERS	FILE IMPORT/EXPORT LOG	90480.02	.02	DATE OF IMPORT/EXPORT	DATE
90480	IZ PARAMETERS	NO MATCH NAMES	90480.04	.01	NO MATCH NAME	NMNAME
90480	IZ PARAMETERS	NO MATCH NAMES	90480.04	.02	DOB	NMDOB
90480	IZ PARAMETERS	NO MATCH NAMES	90480.04	.03	IMPORT DATE	NMDATE
90480	IZ PARAMETERS	FACILITY FOR IIS RXA CODE	90480.05	.02	STATE IIS FACILITY CODE	RXA
90480.1	IZ EXPORTS			.01	NAME	B
90480.1	IZ EXPORTS			.02	EXPORT DATE	C
90480.1	IZ EXPORTS			.02	EXPORT DATE	AC
90480.1	IZ EXPORTS			.02	EXPORT DATE	ADTOO
90480.1	IZ EXPORTS			.03	V IMMUNIZATION	D
90480.1	IZ EXPORTS			.03	V IMMUNIZATION	AD
90480.1	IZ EXPORTS			.04	EXPORT OR IMPORT	DTOO
90480.1	IZ EXPORTS	EXPORT STATE	90480.12	.01	EXPORT STATE	DD
90480.2	IZ HL7 MESSAGES			.01	QUERY FILE NAME	B

File #	Filename	Sub-File Name	Number	Field #	Field Name	Cross Reference
90480.2	IZ HL7 MESSAGES			.01	QUERY FILE NAME	ACT2
90480.2	IZ HL7 MESSAGES			.02	MESSAGE TYPE	ACT
90480.2	IZ HL7 MESSAGES			.02	MESSAGE TYPE	RSP
90480.2	IZ HL7 MESSAGES			.04	PATIENT	PAT
90480.2	IZ HL7 MESSAGES			.04	PATIENT	PAT2
90480.2	IZ HL7 MESSAGES			.04	PATIENT	RSP2
90480.2	IZ HL7 MESSAGES			.05	MESSAGE DATE/TIME	DT
90480.2	IZ HL7 MESSAGES			.05	MESSAGE DATE/TIME	RSP3
90480.2	IZ HL7 MESSAGES			.06	MESSAGE ID	MID
90480.2	IZ HL7 MESSAGES			.1	STATE	ACT3
90480.2	IZ HL7 MESSAGES			.08	TRANSMISSION STATUS	STAT
90480.2	IZ HL7 MESSAGES			.1	STATE	ACT3
90480.9	IZ HL7 SEGMENTS AND FIELDS			.01	SEGMENT	B
90480.9	IZ HL7 SEGMENTS AND FIELDS			.01	SEGMENT	LU
90480.9	IZ HL7 SEGMENTS AND FIELDS			.02	FIELD	LU2
90480.9	IZ HL7 SEGMENTS AND FIELDS			.03	SUB-FIELD	LU3
90480.91	IZ TABLE VIS BARCODES			.01	VIS DOCUMENT TYPE	B
90480.91	IZ TABLE VIS BARCODES			.03	VIS TEXT STRING	BC
90480.91	IZ TAVLE VIS BARCODES	RELATED IMMUNIZATION	90480.911	.01	RELATED IMMUNIZATION	VIS

7.0 External Relations

7.1 External Calls

\$\$GETMCR^AGUTL(

ADDLOT^BIRPC5(

ADDEDIT^BIRPC3(

7.2 Callable Routines

Table 7-1: BYIM called routines

Routine Called	Invoked by
ENV^BYIMIMM	Installation process Environment Check
DE^BYIMIMM	Option IZDE Start Immunization Data Export
DATE^BYIMIMM	Option BYIM IZ AUTO EXPORT
DEX^BYIMIMM	Called by BYIMIMM3 and BYIMIMM5 for HL7 message creation
HFSA^BYIMIMM	Called internally for HL7 message creation
HFSARES^BYIMIMM	Programmer call for HL7 message creation restart
READY^BYIMIMM	Option BYIM IZ READY
EOJ^BYIMIMM	Internal call for EOJ cleanup
RESTART^BYIMIMM	Restart call moved to BYIMIMM7
PATH^BYIMIMM	Forward original call to BYIMIMM6
NOPATH^BYIMIMM	Forward original call to BYIMIMM6
PAUSE^BYIMIMM	Forward original call to BYIMIMM6
FN^BYIMIMM	Internal call to create export file name
DUZ^BYIMIMM	Determine primary DUZ(2)
IMPORT^BYIMIMM1	Option IZIM Import Immunizations from State Registry
I1^BYIMIMM1	Called by routine BYIMIMM2
IN^BYIMIMM1	Called for processing of inbound messages
SET^BYIMIMM1	Internal for ID of patients
SET1^BYIMIMM1	Internal processing of incoming messages
DEL^BYIMIMM1	Called from the BYIM DEL STATE IMMUNIZATIONS protocol
ADD^BYIMIMM1	Function to add immunizations from the state registry to RPMS.
FMINIT^BYIMIMM1	Called by lister to create list of kids and immunizations to list for display.
HDR^BYIMIMM1	Called by lister to create header for immunization list display.
START^BYIMIMM1	Called by lister to start immunization list display.

Routine Called	Invoked by
VALM^BYIMM1	Called by lister to control immunization list display.
PARAM^BYIMM1	Called from BYIM SET PARAMETERS option
PADD^BYIMM1	Called from within the BYIMM1 routine
ADDIMM^BYIMM1	Process additional import files
MATCH^BYIMM2	Called from routine BYIMM1
NN^BYIMM2	Internal select device for no match report
NONAME^BYIMM2	Call for no match report
AUTOIMP^BYIMM2	Called by option BYIM IZ AUTO IMPORT
FLIP^BYIMM2	Called by the package installation process
SHOW^BYIMM2	Called by the option BYIM IZ SHOW EXPORT
SDISP^BYIMM2	Called by report to display immunizations exported
SHEAD^BYIMM2	Called by report to display immunizations exported
INSET^BYIMM2	Called from routine BYIMM1
LOG^BYIMM2	Called from routine BYIMM and BYIMM1
BULLETIN^BYIMM2	Called from routine BYIMM2
KILL^BYIMM2	Called from routine BYIMM1
SELECT^BYIMM3	Called by option BYIM IZ FILE STATISTICS REPORT
DISP^BYIMM3	Called from routine BYIMM3
OL^BYIMM3	Called from routine BYIMM3
HX1^BYIMM3	Called from GIS HL7 message
HX2^BYIMM3	Called from GIS HL7 message
VFC^BYIMM3	Called from GIS HL7 message
VFCD^BYIMM3	Called from GIS HL7 message
RT^BYIMM3	Called by option BYIM RT MESSAGES
VXQ^BYIMM3	Called from GIS HL7 message
VXU^BYIMM3	Called from GIS HL7 message
MULT^BYIMM4	Process inbound messages
ASITE^BYIMM4	Process multiple site exports
ASE^BYIMM4	Primary site edit
CP^BYIMM4	Determine varicella exposure
IMMDUP^BYIMM4	Deduplication Immunizations
DEXIT^BYIMM4	Clean-up after immunization add
ALOT^BYIMM4	Activate lot number
ILOT^BYIMM4	Deactivate lot number
LV^BYIMM4	Calculate last V IMM for a patient
MAN^BYIMM4	Check immunization manufacturer

Routine Called	Invoked by
LOT^BYIMIMM4	Evaluate lot and manufacturer info
LOG^BYIMIMM4	Log auto import files
BULLETIN^BYIMIMM4	Create import/export bulletin
EXPBULL^BYIMIMM4	Export file creation failed bulletin
QPATH^BYIMIMM4	Pre-set query path
LOGDFN^BYIMIMM4	Log patients included in export
LOGD^BYIMIMM4	Log each imported or exported file
ASDISP^BYIMIMM4	Display additional state setup parameters
RXA^BYIMIMM5	Set IIS code for RXA-11.4
RXAE1^BYIMIMM5	Call to edit IIS
TEST^BYIMIMM5	Call to create and edit test messages
CLEAN^BYIMIMM5	Cleanup after test export
COMPSPEC^BYIMIMM5	Specify component content
CDISP^BYIMIMM5	Display components for primary site
CAS^BYIMIMM5	Display components for additional states
CSEL^BYIMIMM5	Display and add/edit site components
AGECHK^BYIMIMM5	Check age parameter
ASSET^BYIMIMM5	Set state specific variables
MENU^BYIMIMM6	Menu header display
ADDLOT^BYIMIMM6	Add lot
SCRN^BYIMIMM6	Screen immunizations to be included in export file
HFSA^BYIMIMM6	Find HL7 messages that have not been exported
RLSH^BYIMIMM6	Display and edit relationship
RUPD^BYIMIMM6	Update relationship file
RDISPLAY^BYIMIMM6	Display relationship
REDIT^BYIMIMM6	Edit relationship
PATH^BYIMIMM6	Set path and related variables
NOPATH^BYIMIMM6	Display no path message
PAUSE^BYIMIMM6	Pause call
NEW^BYIMIMM6	Determine if there are new immunizations to export for a patient
FAC^BYIMIMM7	Set Option and BYIMIMM4
RESTART^BYIMIMM7	Restart export
ASSET^BYIMIMM7	BYIMIMM5 and BYIMIMM8
HEADER^BYIMIMM7	BYIMIMM
LOG^BYIMIMM7	Log state/facility export
CPT^BYIMIMM7	Adjust RXA-5 for CVX or CPT or NDC

Routine Called	Invoked by
IISX^BYIMIMM7	Set RXA-11.4 to state specific code
ESSN^BYIMIMM7	Remove SSN if needed
MCR^BYIMIMM7	Remove MCR number if needed
OBX^BYIMIMM7	Evaluate if VIS barcode or NOS segments to be included
VISNOS^BYIMIMM7	Get VIS/NOS parameter
HFSA^BYIMIMM8	BYIMIMM
WRITE^BYIMIMM8	Final message configuration
PI^BYIMIMM8	Eliminate patient if privacy criteria not met
RXA^BYIMIMM8	Ensure each message has RXA segment
LOG^BYIMIMM8	Log state/facility export
IEN^BYIMIMM8	Find IEN from ORC segment
BYIMPATC	Called by KIDS post-install routine
BYIMQSG	Call for query message creation
BYIMRT, BYIMRT1, BYIMRT2	Calls for real-time query and response message processing
BYIMSEGS, BYIMSEG1, BYIMSEG2	Calls for HL7 message segment creation
ZIS^BYIMXIS	Called by routine BYIMIMM2

7.3 Published Entry Points

Table 7-2: Callable routines and descriptions

Callable Routine	Description
QUERY^BYIMAPI	Called to create query message for patient(s)
SENDIMM^BYIMAPI	Called to create VXU message for patient(s)
RESPONSE^BYIMAPI	Called to create array of information from query response
RD^BYIMAPI	Called to return date of last response

7.4 Exported Options

There are no Interactive RPMS Server Menus.

7.5 Remote Procedure Calls

There are no remote procedure calls.

8.0 Internal Relations

There are no interactive RPMS Server Menus for this package. Users do not need access to the appropriate options and keys.

9.0 Archiving and Purging

The routine QPURGE^BYIMRT2 is scheduled to run daily and purges old, processed HL7 messages used for query/response processing.

10.0 Documentation Resources

10.1 System Documentation

Online VPS system documentation can be generated through the use of several Kernel options, including (but not limited to) the following:

- XINDEX
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

For more option listings and further information about other utilities that supply online technical information, see the Decentralized Hospital Computer Program Kernel Reference manual.

10.1.1 Index (XINDEX)

The XINDEX kernel option analyzes the structure of a routine to determine, in part, if the routine adheres to RPMS programming standards. The output can include the following components:

- Compiled list of errors and warnings
- Routine listing
- Local variables
- Global variables
- Naked globals
- Label references
- External references

Running XINDEX for a specified set of routines allows users to discover any deviations from RPMS programming standards that exist, and to see how routines interact with one another (i.e., which routines call or are called by other routines).

To run XINDEX for the VPS system, at the “Routine(s)?” prompt, type the BYIM namespace.

10.1.2 List File Attributes

Not applicable.

10.1.3 Inquire Option

Not applicable.

10.1.4 Print File Option

Not applicable.

10.2 RPMS Online Help

In addition to system documentation, RPMS includes special help displays for most menu options and data entry prompts. Typing a question mark (?) at the “Select . . . Option” prompt displays information related to the current option, as shown in Table.

Table 10-1: Online help prompts and options

Typing . . .	Displays . . .
A single question mark (?)	A list of all options accessible from the current option.
Two question marks (??)	A list of all accessible options and their formal names.
Three question marks (???)	A brief description for each option in a menu.
A single question mark (?) Followed by an option name (?option)	Extended help, if available, for that option.

11.0 SAC Requirements/Exemptions

There are no exemptions to the SAC standards for this version.

Glossary

Archiving

The storing of historical or little-used data off-line (often on tape).

Banner

A line of text with a user's name and domain.

Callable Entry Points

Locations in a routine that can be called from an application program.

Caret (^)

A circumflex, also known as a "hat," that is used as a delimiter in a global. The caret is denoted as "^" and typed by pressing Shift+6 on the keyboard.

Cross-reference

An indexing method in which files can include pre-sorted lists of entries as part of the stored database. Cross-references (x-refs) facilitate look-up and reporting.

Entry Point

Entry point within a routine that is referenced by a "DO" or "GOTO" command from a routine internal to a package.

Event Type

A message that is sent, which signifies a particular event on the system (e.g., admit, discharge, etc.).

File

A set of related records or entries treated as a single unit.

FileMan

The database management system for RPMS.

Global

In MUMPS, global refers to a variable stored on disk (global variable) or the array to which the global variable may belong (global array).

Health Level 7

The generally accepted standard for the exchange of certain specified types of medical information between applications. HL7 is both the name of the standards developing organization and the collection of protocols that the organization has developed and published. For more information, refer to the HL7 Web site: <http://www.hl7.org/>.

INDEX (%INDEX)

A Kernel utility used to verify routines and other MUMPS code associated with a package. Checking is done according to current ANSI MUMPS standards and RPMS programming standards. This tool can be invoked through an option or from direct mode (>D ^%INDEX).

Information Resource Management

The IHS personnel responsible for information systems management and security.

Init

Initialization of an application package. The initialization step in the installation process builds files from a set of routines (the init routines). Init is a shortened form of initialization.

Kernel

The set of MUMPS software utilities that function as an intermediary between the host operating system and application packages, such as Laboratory and Pharmacy. The Kernel provides a standard and consistent user and programmer interface between application packages and the underlying MUMPS implementation. These utilities provide the foundation for RPMS.

Menu

A list of choices for computing activity. A menu is a type of option designed to identify a series of items (other options) for presentation to the user for selection. When displayed, menu-type options are preceded by the word "Select" and followed by the word "option" as in "Select Menu Management option:" (the menu's select prompt).

Namespace

A unique set of two to four alphabetic characters that are assigned by the database administrator to a software application.

Option

An entry in the Option file. As an item on a menu, an option provides an opportunity for users to select it, thereby invoking the associated computing activity. Options may also be scheduled to run in the background, non-interactively, by TaskMan.

Routine

A program or sequence of instructions called by a program that may have some general or frequent use. MUMPS routines are groups of program lines that are saved, loaded, and called as a single unit via a specific name.

Segment

A group of elements (also known as data fields) in an HL7 message that have been defined as logically belonging to the same category. Each segment contains a three-character Segment ID, the elements, administrative information (if applicable to that segment type), and designated delimiters between each element.

User Class Identification

A computing area

Utility

A callable routine line tag or function; a universal routine usable by anyone.

Variable

A character or group of characters that refers to a value. MUMPS recognizes three types of variables: local variables, global variables, and special variables. Local variables exist in a partition of the main memory and disappear at sign-off. A global variable is stored on disk, potentially available to any user. Global variables usually exist as parts of global arrays.

Acronym List

Acronym	Meaning
CDC	Centers for Disease Control and Prevention
CHIT	Certified Health Information Technology
HIPAA	Health Insurance Portability and Accountability Act
HL7	Health Level 7
IHS	Indian Health Service
MU2	Meaningful Use 2
NIST	National Institute of Standards and Technology
PCC	Patient Care Component
RPMS	Resource and Patient Management System
SIIS	State Immunization Information Systems

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

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

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

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