



RESOURCE AND PATIENT MANAGEMENT SYSTEM

# Immunization Module

(BI)

## Technical Manual

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## Preface

This is the Technical Manual for the RPMS Immunization software module. Its purpose is to provide additional useful information to computer personnel regarding function and operation of the Immunization software. The Technical Manual is intended for use by knowledgeable computer personnel and not the typical end user.

## 1.0 Introduction

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

All routines, files, options, and keys are *name-spaced* starting with the letters “BI.” The file number range for this package is 9002084-9002084.99.

## 2.0 Implementation and Maintenance

### 2.1 System Requirements

- 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.

### 2.2 Key Variables

Table 2-1: Table of key variable names and descriptions

Name	Description
BIADFN	IEN of V IMMUNIZATION just created
BIBEGDT	Begin date of a date range
BICAT	Category: A (Ambul), I (Inpat), E (Event/Hist)
BICMGR	Case Manager
BIDATE	Date of Visit (FileMan format)
BIDFN	DFN of Patient in ^DPT and ^BIP
BIDOSE	Dose# number for this Immunization
BIENDDT	End date of a date range
BIIEN	IEN of an entry
BILOC	Location of encounter (IEN)
BILOT	Lot number for this Immunization (text)
BINAME	Patient Name
BIOLOC	Other Location of encounter (text)
BIPAGE	Page Count
BIPROV	Provider
BIPTR	Vaccine (IEN in IMMUNIZATION File)
BIREC	Vaccine Reaction (text)
BISSN	Social Security Number
BITITLE	Text of Title
BITYPE	Type of Visit (PCC Master Control File I,C,6)

Name	Description
BIVHL7	Vaccine HL7 Code
BIVNAM	Vaccine Name, short form
BIVSIT	IEN of Visit

**Note:** The above are only a few of the more commonly used variables in the package. No BI-namespaced variable can be assumed to be present in the local symbol table at all times. Many variables in the code are referenced extrinsically, calling code in the routines BIUTL1 through BIUTL8.

## 3.0 Menu Diagram



Figure 3-1: Diagram of main menu

## 4.0 Routines

### 4.1 Routines to Map

For those sites where routine mapping is applicable, all BI\* routines should be mapped.

### 4.2 Routines with Descriptions

Table 4-1: Table of routines and descriptions

Routine	Developer	Description
BIAGE	IHS/CM/MWR	PROCESSAGERANGES,PROMPTS
BIAPCH S	IHS/CM/MWR	PRODUCEIMMUNIZATIONPATIENTRECORDFORHEALTHSUMMARY.
BICMGR	IHS/CM/MWR	ADD/EDITCASEMANAGER
BIDTAB	IHS/CM/MWR	VIEWDATAELEMENTS
BIDU	IHS/CM/MWR	DUELIST/LETTERS,MAINDRIVER
BIDU1	IHS/CM/MWR	DUELIST/LETTERS,HELP
BIDUPL T	IHS/CM/MWR	BIPRINTLETTERS.
BIDUPL T1	IHS/CM/MWR	BIPRINTLETTERS.
BIDUR	IHS/CM/MWR	RETRIEVEPATIENTS.
BIDUR1	IHS/CM/MWR	RETRIEVE/STOREPATIENTS.
BIDUVL S	IHS/CM/MWR	VIEWDUELIST.
BIDUVL S1	IHS/CM/MWR	VIEWDUELIST.
BIDUVL S2	IHS/CM/MWR	VIEWDUELISTVIEW.
BIDX	IHS/CM/MWR	RISKFORFLU&PNEUMO,CHECKFORDIAGNOSES.
BIENVC HK	IHS/CM/MWR	ENVIRONMENTALCHECKFORKIDS
BIETAB	IHS/CM/MWR	VIEWERRORCODETABLE
BIEXP	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS.
BIEXP1	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS.
BIEXP2	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS.
BIEXP3	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS.
BIEXPR T2	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS



<b>Routine</b>	<b>Developer</b>	<b>Description</b>
BIEXPR T3	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS
BIEXPR T4	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS
BIEXPR T5	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS
BIEXPR T8	IHS/CM/MWR	EXPORTIMMUNIZATIONRECORDS
BIFMAN	IHS/CM/MWR	FILEMANCALLS
BIHELP	IHS/CM/MWR	DISPLAYHELPTTEXT
BIHS	IHS/CM/MWR	DISPLAYHEALTHSUMMARY
BIKEY	IHS/CM/MWR	UTIL:VIEW/ALLOCATEBIKEYS
BIKEY1	IHS/CM/MWR	ALLOCATE/DEALLOCATEBIKEYS
BIKEY2	IHS/CM/MWR	VIEWBIZKEYSEXPLANATION.
BILETPR	IHS/CM/MWR	PRINTPATIENTLETTERS.
BILETPR 1	IHS/CM/MWR	PRINTPATIENTLETTERS.
BILETPR 2	IHS/CM/MWR	PRINTPATIENTLETTERS
BILETPR 3	IHS/CM/MWR	PRINTPATIENTLETTERS.
BILETPR 4	IHS/CM/MWR	PRINTPATIENTLETTER
BILETV W	IHS/CM/MWR	VIEW/EDITFORMLETTERS
BILETV W1	IHS/CM/MWR	VIEW/EDITFORMLETTERS
BILETV W2	IHS/CM/MWR	VIEW/EDITFORMLETTERS
BILOGO	IHS/CM/MWR	DISPLAYLOGOWHRNENTERINGPKG
BILOT	IHS/CM/MWR	EDITLOTNUMBERS.
BILOT1	IHS/CM/MWR	EDITLOTNUMBERS.
BILOT2	IHS/CM/MWR	EDITLOTNUMBERS.
BIMFI	IHS/CM/MWR	MFIINTERFACECODE
BINFO	IHS/CM/MWR	VIEWPACKAGEINFORMATION.
BINTEG	INTEGRITYCHEC KER	
BIO	IHS/CM/MWR	CALLDDIOLTOWRITETODISPLAY
BIOUTP T	IHS/CM/MWR	HEADERS&PROMPTSFORREPORTS.

<b>Routine</b>	<b>Developer</b>	<b>Description</b>
BIOUTP T1	IHS/CM/MWR	PROMPTSFORREPORTS.
BIOUTP T2	IHS/CM/MWR	PROMPTSFORREPORTS.
BIOUTP T3	IHS/CM/MWR	PROMPTSFORREPORTS.
BIOUTP T4	IHS/CM/MWR	PROMPTSFORREPORTS.
BIOUTP T5	IHS/CM/MWR	WRITESUBHEADERS.
BIPATC O	IHS/CM/MWR	EDITCONTRAINdicATIONS
BIPATC O1	IHS/CM/MWR	BUILDLISTARRAYOFCONTRAS
BIPATC O2	IHS/CM/MWR	ADD/DELETECONTRAINdicATIONS
BIPATE	IHS/CM/MWR	PATIENTCASEDATAEDIT
BIPATE R	IHS/CM/MWR	VIEW/EDITPATIENTERRORS
BIPATE R1	IHS/CM/MWR	EDITPATIENTERRORS.
BIPATPF	IHS/CM/MWR	VIEWPATIENTPROFILE
BIPATU P	IHS/CM/MWR	UPDATEPATIENTFORECAST
BIPATU P1	IHS/CM/MWR	UPDATEPATIENTDATA
BIPATU P2	IHS/CM/MWR	UPDATEPATIENTDATA2
BIPATU P3	IHS/CM/MWR	UPDATEPATIENTDATA2
BIPATV W	IHS/CM/MWR	VIEWPATIENTIMMDATA
BIPATV W1	IHS/CM/MWR	BUILDLISTARRAYOFIMMDATA
BIPATV W2	IHS/CM/MWR	ADD/EDIT/DELETEVISITS
BIPATV W3	IHS/CM/MWR	ADDOTHERITEMS,DISPLAYHELP
BIPCC	IHS/CM/MWR	DISPLAYPCCLINKINFO
BIPOST	IHS/CM/MWR	POST-INITROUTINE
BIPRE	IHS/CM/MWR	PRE-INITROUTINE
BIREP	IHS/CM/MWR	REPORT,GENERICDISPLAYS

<b>Routine</b>	<b>Developer</b>	<b>Description</b>
BIREPA	IHS/CM/MWR	REPORT,VACACCOUNTABILITY
BIREPA 1	IHS/CM/MWR	REPORT,VACACCOUNTABILITY
BIREPA 2	IHS/CM/MWR	REPORT,VACACCOUNTABILITY
BIREPA 3	IHS/CM/MWR	REPORT,VACACCOUNTABILITY
BIREPD	IHS/CM/MWR	REPORT,ADOLESCENTRATES
BIREPD 1	IHS/CM/MWR	REPORT,ADOLESCENTRATES
BIREPD 2	IHS/CM/MWR	REPORT,ADOLESCENTRATES
BIREPD 3	IHS/CM/MWR	REPORT,ADOLESCENTRATES
BIREPD 4	IHS/CM/MWR	REPORT,ADOLESCENTRATES
BIREPF	IHS/CM/MWR	REPORT,FLUIMM
BIREPF1	IHS/CM/MWR	REPORT,FLUIMM
BIREPF2	IHS/CM/MWR	REPORT,FLUIMM
BIREPF3	IHS/CM/MWR	REPORT,FLUIMM
BIREPF4	IHS/CM/MWR	REPORT,FLUIMM
BIREPH	IHS/CM/MWR	REPORT,H1N1ACCOUNTABILITY
BIREPH 1	IHS/CM/MWR	REPORT,H1N1ACCOUNTABILITY
BIREPH 2	IHS/CM/MWR	REPORT,H1N1ACCOUNTABILITY
BIREPH 3	IHS/CM/MWR	REPORT,H1N1ACCOUNTABILITY
BIREPL	IHS/CM/MWR	REPORT,ADULTIMM
BIREPL1	IHS/CM/MWR	REPORT,ADULTIMM
BIREPL2	IHS/CM/MWR	REPORT,ADULTIMM
BIREPL3	IHS/CM/MWR	REPORT,ADULTIMM
BIREPP	IHS/CM/MWR	REPORT,PCV
BIREPP 1	IHS/CM/MWR	REPORT,PCV
BIREPP 2	IHS/CM/MWR	REPORT,PCV
BIREPP 3	IHS/CM/MWR	REPORT,PCV
BIREPQ	IHS/CM/MWR	REPORT,QUARTERLYIMM

<b>Routine</b>	<b>Developer</b>	<b>Description</b>
BIREPQ 1	IHS/CM/MWR	REPORT,QUARTERLYIMM
BIREPQ 2	IHS/CM/MWR	REPORT,QUARTERLYIMM
BIREPQ 3	IHS/CM/MWR	REPORT,QUARTERLYIMM
BIREPQ 4	IHS/CM/MWR	REPORT,QUARTERLYIMM
BIREPT	IHS/CM/MWR	REPORT,TWO-YR-OLDRATES
BIREPT1	IHS/CM/MWR	REPORT,TWO-YR-OLDRATES
BIREPT2	IHS/CM/MWR	REPORT,TWO-YR-OLDRATES
BIREPT3	IHS/CM/MWR	REPORT,TWO-YR-OLDRATES
BIREPT4	IHS/CM/MWR	REPORT,TWO-YR-OLDRATES
BIREPV P	IHS/CM/MWR	REPORT,VIEWPATIENTSINREPORT.
BIREST D	IHS/CM/MWR	CHECKANDRESTANDARDIZEVACCINETABLE.
BIRPC	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC1	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC2	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC3	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC4	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC5	IHS/CM/MWR	REMOTEPROCEDURECALLS
BIRPC6	IHS/CM/MWR	REMOTEPROCEDURECALLS
BISCAN	IHS/CM/MWR	SCANPATIENTDBFOR<36MTHS,ADDTOIMMDB
BISELE C1	IHS/CM/MWR	GENERICSELECTIONUTILITY
BISELE C2	IHS/CM/MWR	GENERICSELECTIONUTILITY
BISELE CT	IHS/CM/MWR	GENERICSELECTIONUTILITY
BISITE	IHS/CM/MWR	EDITSITEPARAMETERS
BISITE1	IHS/CM/MWR	EDITSITEPARAMETERS
BISITE2	IHS/CM/MWR	EDITSITEPARAMETERS
BISITE3	IHS/CM/MWR	EDITSITEPARAMETERS
BISITE4	IHS/CM/MWR	SELECTGPRACCOMMUNITIES.
BITEST	IHS/CM/MWR	TESTSPEEDOFFORECASTING.
BITN	IHS/CM/MWR	BUILD^BITNGLOBAL.
BITN2	IHS/CM/MWR	BUILD^BITNGLOBALSECONDHALF.

<b>Routine</b>	<b>Developer</b>	<b>Description</b>
BITRS	IHS/CM/MWR	TRANSFORMXINTOREQDCASE
BITX	IHS/CM/MWR	ROUTINESTOCREATEFLUANDPNEUMORISK TAXONOMIES
BITXA	IHS/CM/MWR	ROUTINESTOCREATEFLURISK TAXONOMY
BITXB	IHS/CM/MWR	ROUTINESTOCREATEPNEUMORISK TAXONOMY
BITXC	IHS/CM/MWR	ROUTINESTOCREATEPNEUMOSMOKING RISK TAXONOMY
BIUTL1	IHS/CM/MWR	UTIL:PATIENTDEMOGRAPHICS
BIUTL11	IHS/CM/MWR	UTIL:PATIENTINFO
BIUTL2	IHS/CM/MWR	UTIL:ZIS,PATH,ERRCODE
BIUTL3	IHS/CM/MWR	UTIL:ZTSAVE,ASKDATE,DIRZ.
BIUTL4	IHS/CM/MWR	UTIL:SCREENMANCODE
BIUTL5	IHS/CM/MWR	UTIL:MENUTITLS,DATEFORMAT
BIUTL6	IHS/CM/MWR	UTIL:TEXTFORPOINTERS
BIUTL7	IHS/CM/MWR	UTIL:SCREENMANCODE
BIUTL8	IHS/CM/MWR	UTIL:PATLKUP,PRTLST,ZGBL
BIUTLFI X	IHS/CM/MWR	UTIL:FIXSTUFF.
BIVACE D	IHS/CM/MWR	EDITVACCINES.
BIVACE D1	IHS/CM/MWR	EDITVACCINES.
BIVGRP	IHS/CM/MWR	EDITVACCINEGROUPS.
BIVGRP 1	IHS/CM/MWR	EDITVACCINES.
BIVISIT	IHS/CM/MWR	ADD/EDITIMM/SKINVISITS.
BIVISIT1	IHS/CM/MWR	CREATE/EDITVISITS.
BIVISIT2	IHS/CM/MWR	DELETEVISITS
BIVT100	IHS/CM/MWR	UPDATECODESFORVT100
BIVTAB	IHS/CM/MWR	VIEWVACCINETRANSLATIONTABLE
BIW	IHS/CM/MWR	WRITELINESTO^TMP.
BIXCALL	IHS/CM/MWR	XCALLTOIMMSERVELIBRARY
BIXRPC	IHS/CM/MWR	BIREMOTEPROCEDURECALLS

## 5.0 Files and Tables

### 5.1 File List

Table 5-1: Table of file numbers and names

File Number	File Name
9002084	BI PATIENT
9002084.01	BI CASE MANAGER
9002084.02	BI SITE PARAMETER
9002084.1	BI PATIENT IMMUNIZATIONS DUE
9002084.11	BI PATIENT CONTRAINDICATIONS
9002084.12	BI PATIENT FORECAST ERRORS
9002084.33	BI TABLE ERROR CODE
9002084.4	BI LETTER
9002084.45	BI LETTER SAMPLE
9002084.61	BI USER SELECTIONS
9002084.62	BI USER DATE-LOC LINE
9002084.63	BI USER AGE RANGE
9002084.7	BI PACKAGE INFORMATION
9002084.8	BI TABLE REACTION
9002084.81	BI TABLE CONTRA REASON
9002084.82	BI TABLE ADD INFO ITEMS
9002084.91	BI TABLE DATA ELEMENT
9002084.93	BI TABLE VACCINE GROUP (SERIES TYPE)
9002084.94	BI IMMUNIZATION TABLE HL7/CVX STANDARD
9002084.95	BI TABLE NDC CODES
9002084.97	BI TABLE MANUFACTURERS

The following files may be distributed with the package due to Data Dictionary changes. SAC Exemption 2/9/04.

Table 5-2: Table of file numbers and names

File Number	File Name
9000010.11	V Immunization
9000010.12	V Skin Test
9999999.04	IMM Manufacturer

File Number	File Name
9999999.14	Immunization
9999999.28	Skin Test
9999999.41	Immunization Lot

## 5.2 File Access

The following table indicates Read, Write, Laygo, Data Dictionary, and Delete Access Security for BI Files.

File #	Filename	GL	RD	WR	LYG	DD	DEL
9002084 BI Patient	^BIP(	M	M	M	@	M	9002084 BI Patient
9002084.01 BI Case Manager	^BIMGR(	M	M	M	@	M	9002084.01 BI Case Manager
9002084.02 BI Site Parameter	^BISITE(	M	M	M	@	M	9002084.02 BI Site Parameter
9002084.1 BI Patient Immunizations Due	^BIPDUE(	M	M	M	@	M	9002084.1 BI Patient Immunizations Due
9002084.11 BI Patient Contraindicatio ns	^BIPC(	M	M	M	@	M	9002084.11 BI Patient Contraindicatio ns
9002084.12 BI Patient Forecast Errors	^BIPERR(	M	M	M	@	M	9002084.12 BI Patient Forecast Errors
9002084.33 BI Table Error Code	^BIERR(	M	M	M	@	M	9002084.33 BI Table Error Code
9002084.4 BI Letter	^BILET(	M	M	M	@	M	9002084.4 BI Letter
9002084.45 BI Letter Sample	^BILETS(	M	M	M	@	M	9002084.45 BI Letter Sample
9002084.61 BI User Selections	^BISELECT(	M	M	M	@	M	9002084.61 BI User Selections

File #	Filename	GL	RD	WR	LYG	DD	DEL
9002084.62 BI User Date- Loc Line	^BIDLOC(	M	M	M	@	M	9002084.62 BI User Date- Loc Line
9002084.63 BI User Age Range	^BIAGRG(	M	M	M	@	M	9002084.63 BI User Age Range
9002084.7 BI Package Information	^BINFO(	M	M	M	@	M	9002084.7 BI Package Information
9002084.8 BI Table Reaction	^BIREC(	M	M	M	@	M	9002084.8 BI Table Reaction
9002084.81 BI Table Contra Reason	^BICONT(	M	M	M	@	M	9002084.81 BI Table Contra Reason
9002084.82 BI Table Add Info Items	^BIADDIN(	M	M	M	@	M	9002084.82 BI Table Add Info Items
9002084.91 BI Table Data Element	^BIEXPDD(	M	M	M	@	M	9002084.91 BI Table Data Element
9002084.93 BI Table Vaccine Group (Series Type)	^BISERT(	M	M	M	@	M	9002084.93 BI Table Vaccine Group (Series Type)
9002084.94 BI Immunization Table HL7/CVX Standard	^BITN(	M	M	M	@	M	9002084.94 BI Immunization Table HL7/CVX Standard
9002084.95 BI Table NDC Codes	^BINDC(	M	M	M	@	M	9002084.95 BI Table NDC Codes
9002084.97 BI Table Manufacturers	^BIMAN(	M	M	M	@	M	9002084.97 BI Table Manufacturers



## 5.3 Cross References

Table 5-3: Table of cross references

File Number	File Name Cross Reference	File#	Field#	Field Name
9002084	BI Patient			
	"B"	9002084	.01	Name
	"C"	9002084	.1	Case Manager
9002084.01	BI Case Manager			
	"B"	9002084.01	.01	Case Manager
9002084.02	BI Site Parameter			
	"B"	9002084.02	.01	Site/Facility Name
9002084.1	BI Patient Immunizations Due			
	"B"	9002084.1	.01	Patient Name
	"D"	9002084.1	.04	Recommended Date Due
	"DD"	9002084.1	.05	Date Past Due
	"E"	9002084.1	.05	Date Past Due
9002084.11	BI Patient Contraindications			
	"AC"	9002084.11	.02	Vaccine
	"B"	9002084.11	.01	Patient Name
9002084.12	BI Patient Forecast Errors			
	"B"	9002084.12	.01	Patient Name
9002084.33	BI Table Error Code			
	"B"	9002084.33	.01	Error Code #
	"C"	9002084.33	.02	Error Code Text
	"U"	9002084.33	.02	Error Code Text
9002084.4	BI Letter			
	"B"	9002084.4	.01	Form Letter Name
	"U"	9002084.4	.01	Form Letter Name
9002084.45	BI Letter Sample			
	"B"	9002084.45	.01	Form Letter Name
9002084.61	BI User Selections			
	"B"	9002084.61	.01	DUZ-Dash-File #
9002084.62	BI User Date Loc-Line			
	"B"	9002084.62	.01	DUZ
9002084.63	BI User Age Range			
	"B"	9002084.63	.01	DUZ
9002084.7	BI Package Information			
	"B"	9002084.7	.01	Name
9002084.8	BI Table Reaction			
	"B"	9002084.8	.01	Reaction
	"C"	9002084.8	.02	Numeric Code

File Number	File Name Cross Reference	File#	Field#	Field Name
	"U"	9002084.8	.01	Reaction
9002084.81	BI Table Contra Reason "B"	9002084.81	.01	Contraindication Reason
	"U"	9002084.81	.01	Contraindication Reason
9002084.82	BI Table Add Info Items "B"	9002084.82	.01	Item Name
	"U"	9002084.82	.01	Item Name
9002084.91	BI Table Data Element "B"	9002084.91	.01	Data Element Name
	"C"	9002084.91	.03	Synonym
9002084.93	BI Table Vaccine Group (Series Type) "B"	9002084.93	.01	Vaccine Group
9002084.94	BI Immunization Table HL7/CVX Standard "B"	9002084.94	.01	Name
	"C"	9002084.94	.03	HL7-CVX Code
	"D"	9002084.94	.02	Short Name
	"E"	9002084.94	.1	Alternate Short Name
9002084.95	BI Table NDC Codes "B"	9002084.95	.01	NDC Code
	"C"	9002084.95	.02	Vaccine
	"D"	9002084.95	.03	Manufacturer
	"E"	9002084.95	.04	Product Name
9002084.97	BI Table Manufacturers "B"	9002084.97	.01	Name
	"C"	9002084.97	.02	MVX Code

## 5.4 Table Files

### FILE: 9002084.33 BI TABLE ERROR CODE

GLOBAL: ^BIERR(

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	ERROR CODE#	D0,0	1	N
.02	ERROR CODE TEXT	"	2	F
.03	ERROR ABBREVIATED TEXT	"	3	F

**FILE: 9002084.8 BI TABLE REACTION****GLOBAL: ^BIREC(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	REACTION	D0,0	1	F
.02	NUMERIC CODE FOR THIS REACTION	"	2	N
.03	ACTIVE	"	3	S

**FILE: 9002084.81 BI TABLE CONTRA REASON****GLOBAL: ^BICONT(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	CONTRAINICATION REASON	D0,0	1	F
.02	WITHOLD CONTRA FROM FORECAST	"	2	S
.03	ACTIVE	"	3	S

**FILE: 9002084.82 BI TABLE CONTRA REASON****GLOBAL: ^BIADDIN(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	ITEM NAME	D0,0	1	F
.02	NUMBER	"	2	N
.03	SHORT NAME	"	3	F

**FILE: 9002084.91 BI TABLE DATA ELEMENT****GLOBAL: ^BIEXPDD(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	DATA ELEMENT NAME	D0,0	1	F
.02	DATA ELEMENT CODE	"	2	F
.03	SYNONYM	"	3	F
.04	TYPE OF VISIT	"	4	S

**FILE: 9002084.93 BI TABLE VACCINE GROUP (SERIES TYPE)****GLOBAL: ^BISERT(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	VACCINE GROUP (SERIES TYPE)	D0,0	1	F
.02	DISPLAY ORDER	"	2	N
.03	SHORT NAME	"	3	F
.04	MAX DOSES IN QUARTERLY REPORT	"	4	N
.05	FORECASTING ON/OFF	"	5	S
.06	AVAILABLE ON FORECASTNG MENU	"	6	S

**FILE: 9002084.94 BI IMMUNIZATION TABLE HL7/CVX STANDARD****GLOBAL: ^BITN(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	NAME	D0,0	1	F
.02	SHORT NAME	"	2	F
.03	HL7-CVX CODE	"	3	N
.05	MAXIMUM# DOSES IN SERIES	"	5	N
.07	ACTIVE	"	7	S
.08	SKIN TEST	"	8	S
.09	VACCINE GROUP (SERIES TYPE)	"	9	P
.1	ALTERNATE SHORT NAME	"	10	F
.11	CPT CODE	"	11	P
.12	RELATED CONTRAIND HL7 CODES	"	12	F
.13	VIS DEFAULT DATE	"	13	D
.14	ICD DIAGNOSIS CODE	"	14	F

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.15	ICD PROCEDURE CODE	"	15	F
.16	INCLUDE IN FORECAST	"	16	S
.17	INCLUDE IN VAC ACCOUNT REPORT	"	17	S
.18	DEFAULT VOLUME	"	18	N
.21	COMPONENT #1	"	21	P
.22	COMPONENT #2	"	22	P
.23	COMPONENT #3	"	23	P
.24	COMPONENT #4	"	24	P
.25	COMPONENT #5	"	25	P
.26	COMPONENT #6	"	26	P
1.01	BRAND #1	D0,1	1	F
1.03	BRAND #2	"	3	F
1.05	BRAND #3	"	5	F
1.07	BRAND #4	"	7	F
1.09	BRAND #5	"	9	F
1.14	FULL NAME	"	14	F
1.15	CPT CODE 2ND	"	15	p

**FILE: 9002084.95 BI TABLE NDC CODES****GLOBAL: ^BINDC(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	NDC CODE	D0,0	1	F
.02	VACCINE	"	2	p
.03	MANUFACTURER	"	3	P
.04	PRODUCT NAME	"	4	F
.05	CVX CODE	computed		C
.06	STATIS	"	6	S

**FILE: 9002084.97 BI TABLE MANUFACTURERS****GLOBAL: ^BIMAN(**

FIELD #	FIELD NAME	SUBSCRIPT	PIECE	TYPE
.01	NAME	D0,0	1	F

---

<b>FIELD #</b>	<b>FIELD NAME</b>	<b>SUBSCRIPT</b>	<b>PIECE</b>	<b>TYPE</b>
.02	MVX CODE	"	2	F
.03	ACTIVE	"	3	S
.04	FULL NAME	"	4	F

## 6.0 External/Internal Relations

Minimums of FileMan v22, Kernel v8, and PCC Health Summary v2.0 patch 10 are required to run this package. It is also critically important that the screen handling codes for C-VT100 be up-to-date in the Terminal Type File.

This v8.5 makes use of a piece of commercial software called ImmServe, distributed by Medical Decisions Associates, Inc. (MDA). This software is an immunization forecasting utility. Immunization "forecasting" is the complex and ever changing process of determining which immunizations patients are due for, based on their immunization history.

The IHS and MDA have worked closely to produce immunization forecasting for RPMS which utilizes the latest HL7/CVX codes for vaccines and vaccine combinations, as maintained now by the Centers for Disease Control (CDC). Renewal of the annual IHS-wide license with MDA for this software will allow the RPMS Immunization Package to remain abreast of the latest vaccines and vaccine combinations licensed by the Food and Drug Administration (FDA).

ImmServe is basically a C program that runs on the same host file server where Cache runs. The C program is loaded into memory by Cache's \$ZF functions and resides in memory until the host operating system is rebooted, which provides efficient processing of forecasts even when tens of thousands of patients are being processed for reports.

### 6.1 External Calls

Table 6-1: Table of external calls

Routine Called	Invoked By
APCDALVR	BIVISIT
APCDALV	BIVISIT1
APCDAPI4	BIVISIT1
BSDAPI4	BIVISIT1
DIC	BIFMAN, BIUTL8
DIE	BIFMAN
DDS	BIFMAN
DIR	BIFMAN
FILE^DICN	BIFMAN
CLEAN^DILF	BIUTL8
EN^DIQ	BIFMAN
EN^DIQ1	BIFMAN

Routine Called	Invoked By
EN^VALM RE^VALM CLEAR^VALM1 FULL^VALM1 TERM^VALM0	BIDU, BIDTAB, BIETAB, BIEXP, BIEXP1, BIEXP2, BIEXP3, BIEXPL, BIINFO, BIKEY, BIKEY1, BIKEY2, BILETPR2, BILETPR4, BILETVW, BILETVW2, BIOUTPT, BIOUTPT1, BIOUTPT2, BIOUTPT3, BIOUTPT4, BIPATCO, BIPATCO2, BIPATER, BIPATER1, BIPATPF, BIPATVW, BIPATVW1, BIPATVW2, BIREPA, BIREPA1, BIREPL, BIREPL1, BIREPQ, BIREPQ1, BIREPT, BIREPT1, BISELEC1, BISELEC2, BISITE, BISITE2, BISITE3, BIUTL8, BIVACED, BIVACED1, BIVTAB
XBKVAR	BIUTL5, BIUTLFIX
VIEWR^XBLM	BIHS
EN^XBNEW	BIVISIT, BIVISIT2
EN^XBVK	BIUTL8

## 6.2 Published Entry Points

Table 6-2: Table of exported options

Routine	Description	Required Variables
VER^BILOGO	Return Version# and Patch Level	None
AUTOADD^BIPATE	Automatically add a Patient to the Imm DB	1 - BIDFN (req) Patient's IEN in VA PATIENT File #2. 2 - BISITE (req) DUZ(2) for default Case Manager. 3 - BIERR (ret) Error text, if any. 4 - BINACT (opt) FileMan internal date Patient became Inactive.
ADDPAT^BIPATE	Add a Patient to Imm DB	1 - BIDFN (req) Patient's IEN in VA PATIENT File #2. 2 - BISITE (req) DUZ(2) for default Case Manager. 3 - BIERR (ret) Error text, if any. 4 - BINACT (opt) FileMan internal date Patient became Inactive. 5 - BINACTR (opt) Internal code for Inactive Reason: m: Moved Elsewhere, t: Treatment Elsewhere, d: Deceased, p: Previously Inactivated, n: Never Activated 6 - BIAUTO (opt) If BIAUTO=1, set Field# .22="Automatically" added.
FORCALL^BIRPC	Update Forecast for all Immunization Patients.	None.
IMMHX^BIRPC	Return Immunization History	1 - BIHX (ret) String of patient's immunizations_  _Error. 2 - BIDFN (req) DFN of patient. 3 - BIDE (opt) Array of Data Elements to be returned: BIDE(IEN of Data Element). 4 - BISKIN (opt) =1 if Skin Tests should be included



Routine	Description	Required Variables
		(DEFAULT); =0 if Skin Tests should NOT be included. 5 - BIFMT (opt) Format: 0=ASCII Split, 1=ASCII, 3=IMM/SERVE "Split" means the components of a combination vaccine will be split out as if they were given individually.
IMMFORC^BIRPC	Return Immunization Forecast	1 - BIFORC (ret) String of patient's forecast_  _Error. 2 - BIDFN (req) DFN of patient. 3 - BIFDT (opt) Forecast Date (date used for forecast). 4 - BIUPD (opt) If BIUPD=1, do NOT update ImmServe Forecast. Default \$G(BIUPD)="", forecast gets updated. 5 - BIDU22 (opt) User's DUZ(2) to indicate ImmServe Forecasting Rules in Patient History data string. 6 - BIPDSS (ret) Returned string of Visit IEN's that are Problem Doses, according to ImmServe.
IMMPROF^BIRPC	Return ImmServe Profile in global array	1 - BIGBL (ret) Name of result global containing patient's ImmServe Profile, passed to Broker. 2 - BIDFN (req) DFN of patient. 3 - BIFDT (opt) Forecast Date (date used to calc Imms due). 4 - BIDU22 (opt) User's DUZ(2) to indicate ImmServe Forecasting Rules in Patient History data string.
FORCALL^BIRPC	Update Forecast for all Immunization Patients	None.
CONTRAS^BIRPC 5	Return Patient's Contraindications and their Reasons	1 - BICONTR (ret) String of patient's Contraindications_  _Error. 2 - BIDFN (req) DFN of patient.
GET^BIRPC1	Return data for one Immunization or Skin Test	1 - BIDATA (ret) Visit Data or Text of Error Code if any. 2 - BIDA (req) IEN of V IMM or V SKIN entry for data retrieval. 3 - BIVTYPE (req) "I"=Immunization Visit, "S"=Skin Text Visit. 4 - BIDE (opt) Local array for Data Elements to be returned.
ADDEDIT^BIRPC3	Add/Edit an V Immunization or V Skin Test	1 - BIERR (ret) Text of Error Code if any, otherwise null. 2 - BIDATA (req) String of data for the Visit to be added.
DELETE^BIRPC3	Delete an Immunization or Skin Test	1 - BIERR (ret) Text of Error Code if any, otherwise null. 2 - BIDA (req) IEN of V IMM or V SKIN entry to be deleted. 3 - BIVTYPE (req) "I"=Immunization Visit, "S"=Skin Text Visit.
LOTDECR^BIRPC 3	Decrement Lot Total for a given Lot Number	1 - BILOT (req) Lot Number IEN for this Immunization.
LOTRBAL^BIRPC3	Return Remaining Balance for a Lot Number	1 - BILIEN (req) Lot Number IEN for this Immunization.

<b>Routine</b>	<b>Description</b>	<b>Required Variables</b>
LOTEXP^BIRPC3	Return Lot Expiration Date in format : MM/DD/YYYY	1 - BILIEN (req) Lot Number IEN for this Immunization. 2 - BIYY (opt) If BIYY=1, return 2-digit year: MM/DD/YY. If BIYY=2, return FileMan format of date.
ADDCONT^BIRPC4	Add a Contraindication	1 - BIERR (ret) Text of Error Code if any, otherwise null. 2 - BIDATA (req) String of data for the Contraindication to be added. Data elements are parsed by " " as follows: Patient IEN Vaccine IEN Contra Reason IEN Date Noted
DELCONT^BIRPC4	Delete a Contraindication	1 - BIERR (ret) Text of Error Code if any, otherwise null. 2 - BICIEN (req) IEN of BI CONTRAINDICATION to be deleted.
ACTLIST^BIRPC6	Produce ^TMP of Patients for Imm Report	1 - BIQDT (req) Quarter Ending Date. 2 - BITAR (opt) Two-Yr-Old Report Age Range: either "19-35" or "24-35" 3 - BISITE (req) Site IEN. 4 - BIERR (ret) Error text (if null, then no error).
OTHERLOC^BIRPC6	Return IEN of the "OTHER" Location	1 - BIDUZ2 (req) IEN of "OTHER" in LOCATION File. 2 - Z (opt) If Z=1 return text of "OTHER" Location.
GETGPRA^BISITE4	Return GPRA Communities Array	1 - BIGPRA (ret) Array of GPRA IEN's in the COMMUNITY file - ^AUTTCOM(. 2 - BIDUZ (req) Site IEN or DUZ(2). 3 - BIERR (ret) Error text, if any.
ACTIVE^BIUTL1	Return Patient's Active Status in Immunization Package	1 - DFN (req) Patient's IEN (DFN).
INACT^BIUTL1	Return Date Patient became Inactive in the Imm Package	1 - DFN (req) Patient's IEN (DFN). 2 - TEXT (opt) If TEXT=1, return text of date.
ISGPRA^BIUTL11	Return 1 if Pt's Current Community is in Imm GPRA Set	1 - BIDFN (req) Patient's IEN (BIDFN). 2 - BISITE (req) IEN of Site (often the user's DUZ(2)).
LASTIMM^BIUTL11	Return latest date patient received CVX vaccine(s).	1 - BIDFN (req) IEN of Patient in ^DPT. 2 - BICVXS (req) String of CVX Codes to check, delimited by comma. 3 - BIQDT (opt) Quarter Ending Date (ignore Visits after this date).
IMPORT^BIVISIT	Code to flag V Imm as "Imported."	1 - APCDALVR (req) Array returned from call to EN^APCDALVR. APCDALVR("APCDADFN") - IEN of V IMMUNIZATION File entry. APCDALVR("APCDAFLG") - =2 If FAILED to create a V FILE entry.

## 6.3 Exported Options

Table 6-3: Table of exported options

Option Name	Description
BI CASE MANAGER ADD/EDIT	Add/Edit Case Manager
BI CASE MANAGER TRANSFER	Transfer a Case Manager's Patients
BI DUE LISTS & LETTERS PRINT	Due Lists and Letters
BI EXPORT IMMUNIZATIONS	Export Immunizations
[BI EXPORT VACCINE TABLE	Export Vaccine Table to Excel File
BI KEYS ALLOCATE	Allocate/Deallocate Imm Menu Keys
BI LETTER EDIT	Form Letters Add/Edit
BI LINE FOR MENUS	
BI LOT NUMBER ADD/EDIT	Lot Number Add/Edit
BI LOT NUMBER NON-MANAGER	Lot Inventory for Non-Manager
BI MANUFACTURER ADD/EDIT	Manufacturer Add/Edit
BI MENU-MANAGER	Manager Menu
BI MENU-PATIENT	Patient Menu
BI MENU-REPORTS	Reports Menu
BI PACKAGE SETUP INFO VIEW	Package Setup Information
BI PATIENT ERRORS	Edit Patient Errors
BI PATIENT LETTER INDIVIDUAL	Print Individual Patient Letter
BI PATIENT LISTS & LETTERS	Patient Lists and Letters
BI PATIENT VIEW/EDIT	Single Patient Record
BI PATIENTS SCAN	Scan For Patients
BI REPORT ADOLESCENT IMMS	Adolescent Report
BI REPORT ADULT IMMS	Adult Immunization Report
BI REPORT FLU	Influenza Report
BI REPORT H1N1 ACCOUNTABILITY	H1N1 Report
BI REPORT QUARTERLY IMM	3-27 Month Report
BI REPORT TWO-YR RATES	Two-Yr-Old Immunization Rates
BI REPORT VAC ACCOUNTABILITY	Vaccine Accountability Report
BI SITE PARAMETERS EDIT	Site Parameters Edit
BI VACCINE TABLE EDIT	Vaccine Table Edit
BI VACCINE TABLE RESTAND	Re-standardize Vaccine Table

## 7.0 Security Keys

There are four keys included in the Immunization v8.5:

Table 7-1: Table of key names and descriptions

Key Name	Description
BIZMENU	Key to the Main Menu of Immunization
BIZ EDIT PATIENTS	Key to allow enter/edit of Patient Data
BIZ MANAGER	Key to Manager Menu
BIZ LOT NON-MANAGER	Key to Lot Inventory for Non-Imm users

### **BIZMENU**

The BIZMENU key gives users access to the Main Menu of the Immunization Package v8.5, with minimal permission to view patients' Immunization Data, to print Official Immunization Records, to view/print Due Lists, and to run reports.

### **BIZ EDIT PATIENTS**

The BIZ EDIT PATIENTS key gives users the ability to ADD/EDIT the immunization data of patients, such as contraindications, skin tests, and other patient information. This key functions by making various Add/Edit actions available on the main Patient View screen of the Patient Immunization Record Option.

(Users without this key will still be able to view patient data from the Patient Immunization Record Option, but they will only be able to view the Immunization Data and the Health Summary, and print the Official Immunization Record.)

### **BIZ MANAGER**

Gives users access to the Manager Menu of the New Immunization Package and the full range of Manager functions, such as editing Case Managers, editing Form Letters, editing Site Parameters, etc.

### **BIZ LOT NON-MANAGER**

Assignment of the option BI LOT NUMBER NON-MANAGER to other menus in RPMS is done by the local site manager, as is the key BIZ LOT NON-MANAGER. This option and its key cannot be assigned from within the Immunization Package itself.

## 8.0 Archiving and Purging

There is no archiving and purging in this package. The sizes of the table files that come with the package are insignificant. Data storage for the package is very roughly 100 megabytes for a database of 25,000 patients with 1,000,000 immunizations.

## 9.0 Generating Online Documentation

### 9.1 System Documentation

This section describes a few methods to generate Immunization Module technical documentation. Online Immunization Module software technical documentation, in addition to that which is located in the help prompts throughout the Immunization Module, can be generated through the use of several Kernel options. These include, but are not limited to, the following:

- %INDEX
- Menu Management
- Inquire Option
- Print Option File
- VA FileMan
- Data Dictionary Utilities
- List File Attributes

Typing ? at the “Select . . . Option” prompt will provide online technical information.

- A single question mark (?) lists all options that can be accessed from the current option.
- Two question marks (??) list all options accessible from the current one, showing the formal name and lock for each.
- Three question marks (???) display a brief description for each option in a menu.
- An option name preceded by a question mark (?OPTION) shows extended help, if available, for that option.

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

#### 9.1.1 %INDEX

The %INDEX 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 %INDEX 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 %INDEX for the Immunization package, type the BI namespace at the Routine(s)?> prompt.

### 9.1.2 Inquire Options

The Inquire menu management option provides the following information about a specified option:

- Option name
- Menu text
- Option description
- Type of option
- Lock (if any)

In addition, all items on the menu are listed for each menu option. To secure information about Immunization options, specify the BI namespace.

### 9.1.3 Print Option File

This utility generates a listing of options from the Option file (#19). Users can choose to print all of the entries in this file or specify a single option or range of options. For a list of Immunization Module options, refer to Exported Options section of this manual.

### 9.1.4 List File Attributes

This VA FileMan option allows users to generate documentation pertaining to files and file structure. The standard format of this option provides the following data dictionary information for a specified file:

- File name and description
- Identifiers
- Cross-references
- Files pointed to by the file specified

- Files that point to the file specified
- Input, print, and sort templates

In addition, the following applicable data is supplied for each field in the file:

- Field name, number, title, and description
- Global location
- Help prompt
- Cross-references
- Input transform
- Date last edited
- Notes

Using the Global Map format of this option generates an output that lists the following information:

- All cross-references for the file selected
- Global location of each field in the file
- Input, print, and sort templates



## 10.0 SAC Requirements and Exemptions

The following exemptions to the SAC standards have been made for this version:

- The BIXCALL routines open, use, and close the Host File Server directly and temporarily resets the Error Trap during the \$ZF calls to ImmServe, the c-program commercial forecasting software. This is done to avoid losing IO variables and unintentionally closing printer devices while calling the HFS to produce Imm forecasts by ImmServe.
- The \$ZF calls are proprietary Cache functions.
- All code is ANSI M Standard.

# Glossary

**Archiving**

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

**ASUFAC number**

Area Service Unit Facility; a unique identifier for each facility within IHS. A six-digit number comprised of 2 digits for Area, 2 digits for Service Unit, and 2 digits for Facility.

**Banner**

A line of text with the name and domain of a user.

**Browser**

An interactive application that displays ASCII text on a terminal that supports a scroll region. The text can be in the form of a word-processing field or sequential local or global array. The user is allowed to navigate freely within the document.

**Callable Entry Points**

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

**Cross-reference**

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

**Default Facility**

A user selects a facility identification to work with patients registered to that facility.

**Entry Point**

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

**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 Record Number (HRN)**

Each facility assigns a unique number within that facility to each patient. Each HRN with its facility identification “ASUFAC” make a unique identifier within all of IHS.

**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).

**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.

**Internal Entry Number (IEN)**

The number used to identify an entry within a file. Every record has a unique internal entry number.

**IRM**

Information Resource Management. The IHS personnel responsible for information systems management and security.

**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 2 to 4 alpha characters that are assigned by the database administrator to a software application.

**Official Registering Facility**

A facility so designated that when HRNs are added/modified, those changes are sent to the central database. A Service Unit may have several satellites for which it is registering patients.

**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.

**Patient Care Component (PCC)**

The central repository for data in the Resource and Patient Management System (RPMS).

**Queuing**

Requesting that a job be processed at a later time rather than within the current session.

**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.

**UCI**

User Class Identification: a computing area.

**Up-Hat (^)**

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

**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 3 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

None

## 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)