

RESOURCE AND PATIENT MANAGEMENT SYSTEM

IHS Personal Health Record

(BPHR)

Technical Manual

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Revision History

Version	Date	Author	Section	Page Number	Summary of Change
1.0	July 2014	OIT Developers	All	All	Initial Version
1.1	October 2024	OID Developers	All	All	Updated document to reflect changes made in patches 1 through 6

Preface

The purpose of this manual is to provide technical information about the Indian Health Service (IHS) Personal Health Record (BPHR) package. The BPHR package contains an Application Programming Interface (API) call used by the Meaningful Use Performance Report and by the DIRECT Mail button in the Electronic Health Record (EHR). The BPHR application also contains functionality to pull down medication refill requests made by patients on their PHR page and places the requests on the Pharmacy 'Complete OE/RR Orders LM' (CPO) queue.

1.0 Introduction

The BPHR package is a component of the Indian Health Service (IHS) Resource and Patient Management System (RPMS) that provides an interface for patients to access their medical information. Patients will access their Personal Health Record via the internet. The RPMS side only contains an API that is used by the Meaningful Use (MU) Performance report to count how many patients have accessed their PHR and how many patients have used secure messaging.

This manual provides IHS site managers with a technical description of the BPHR APIs, routines, files, menus, cross-references, globals, and other necessary information required to effectively maintain this component of PHR.

All APIs, routines, files, options, and keys are namespaced starting with the letters BPHR. The file number range for this package is 90670–90679.

2.0 Orientation

The API package will be distributed as a Kernel Installation and Distribution System (KIDS) package, which will contain the appropriate files and routines to enable MU Performance measure to calculate their data.

Interaction between RPMS and the actual PHR is accomplished via web service calls or requests. All APIs and classes in this package begin with the namespace letters BPHR.

A high-level diagram of the PHR services architecture is shown in Figure 2-1. Each of the main components identified are detailed in the sections that follow.

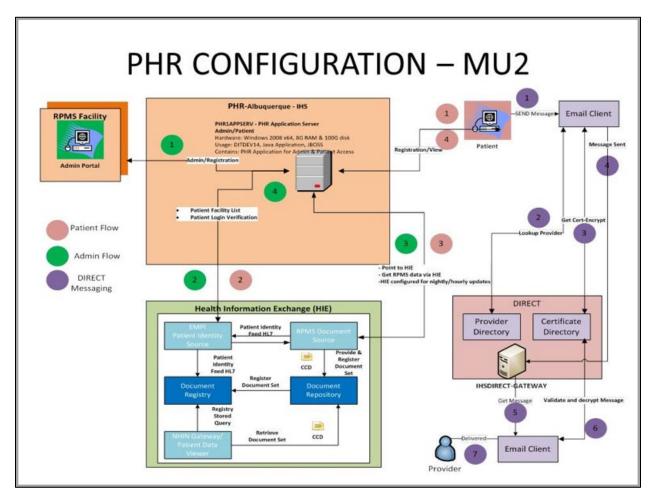


Figure 2-1: High-Level Application Architecture diagram for the Personal Health Record

2.1 Health Information Exchange (HIE)

The PHR application will make a SOAP-based web service call to the HIE service. There will be two calls made. One retrieves a list of documents related to the patient accessing the PHR application. Another call retrieves the actual CCDA that the patient chooses to view. This information is provided to the Performance Measures.

2.2 Direct Email Services

To allow secure messaging, the PHR application will use Direct email.

3.0 Implementation and Maintenance

The BPHR APIs are designed to provide a **MUMPS-based** programming interface for the MU Performance report development team to obtain needed information from the PHR. The API in turn utilizes a web-service interface to interact with the PHR server.

3.1 General Information

Table 3-1 shows the prerequisite patch requirements.

Table 3-1: Patch Requirements

Package and Version	Associated Patch Designation(s)	
IHS PERSONAL HEALTH RECORD 2.1 (BPHR)	v2.1 p5	

3.2 System Requirements

Table 3-2 shows the versions of other packages that should be installed for BPHR to work properly.

Table 3-2: BPHR System Requirements by Module and Minimum Version

Module	Minimum Version	Recommended Version
Ensemble 2012	v2012	N/A
VA FileMan (DI)	v22.0 p1020	N/A
IHS/VA Utilities (XB)	v3.0 through p11	N/A
IHS Kernel Toolkit (XT)	v7.3 through p1018	N/A
VA Kernel (XU)	v8.0 p1020	N/A
IHS Personal Health Record (BPHR)	v2.1 p5	N/A

3.3 Package-wide Variables

There are no package-wide BPHR variables in RPMS.

3.4 Security Keys

Table 3-3 lists the security keys that govern BPHR and can be assigned to users.

Table 3-3: BPHR Security Key and Description

Key Name	Description
BPHRZMENU	This security key should only be assigned to those users who will manage the BPHR system. It should not be given to the general RPMS user population.

4.0 Menu Diagram

Figure 4-1 shows the BPHR Main Menu.

```
Select OPTION NAME: BPHRMENU IHS Personal Health Record Management

WEB Edit PHR Web Service
CHK Check the PHR connection
DIR Check Patient for DIRECT Message
HST Medication Refill Task History
TSK BPHR MEDICATION REFILL TASK

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

You've got PRIORITY mail!

Select IHS Personal Health Record Management <TEST ACCOUNT> Option:
```

Figure 4-1: BPHR Main Menu

The BPHR options are contained in the IHS Personal Health Record Management [BPHRMENU] menu. To access this menu, the BPHRZMENU key is required. The BPHR main menu contains the following options:

- Edit PHR Web Service [BPHR EDIT WEB SERVICE]
 - Updates information about the web services used by the site to connect to the PHR server.
- Check the PHR connection [BPHR CHECK CONNECTION]
 - Using a patient, check if the PHR connection is working.
- Check Patient for DIRECT Message [BPHR MU DIRECT CHECK]
 - Checks for a provider, date range, and patient, whether a DIRECT message was sent.
- Medication Refill Task History [BPHR MED REFILL TASK HISTORY]
 - This option allows users to view the medication refill request history. The option functions as follows:
 - After selecting the **HST** option, the user is prompted to answer the questions show in Figure 4-2.

```
Enter the earliest date to review: Aug 27, 2024// (AUG 27, 2024)

Skip tasks that ran with no refill requests or errors? Yes// YES

See only tasks for a specific patient? No//
```

Figure 4-2: Medication Refill Task History User Prompts

- At the Enter the earliest date to review prompt, enter the first date of medication refill history task runs that you would like to view.
- Entering YES at the Skip tasks that ran with no refill requests or errors prompt will only display task runs that contained medication refill requests or tasks that errored out with some type of error. Entering NO will show all runs, regardless of whether they contained refill requests.
- Answering YES at the See only tasks for a specific patient prompt will then prompt the user to enter a specific patient. Only task runs that contain medication refill requests from the chosen user will be displayed.
- After answering the prompts described above, the user will be presented with a screen similar to the one shown in Figure 4-3.

Figure 4-3: Medication Refill Task History screen

 Selecting the Med Refill Task History (H) option and choosing a task number from the list will display information about each Station Number request that was made to PHR. See Figure 4-4 for a sample display.

```
RUN DATE/TIME: AUG 28, 2024@14:11:27
SITE NAME: 2013 DEMO TRIBE
                                            NUMBER OF REFILL REQUESTS: 1
                                            STATION NUMBER: 8990
  REFILL COUNTS: 0
                                            REQUEST MADE: AUG 28, 2024@14:11:27
  REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
SITE NAME: FT. DUCH. HC
                                            STATION NUMBER: 8285
  REFILL COUNTS: 0 REC
REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
                                            REQUEST MADE: AUG 28, 2024@14:11:28
SITE NAME: HOPI HEALTH CARE CENTER
                                            STATION NUMBER: 8286
                                            REQUEST MADE: AUG 28, 2024@14:11:28
  REFILL COUNTS: 0
  REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
SITE NAME: 2019 DEMO HOSPITAL (INST)
                                            STATION NUMBER: 8992
  REFILL COUNTS: 0
                                            REQUEST MADE: AUG 28, 2024@14:11:28
  REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
SITE NAME: 2019 DEMO CLINIC TIN A
                                            STATION NUMBER: 8992A
  REFILL COUNTS: 0
                                            REQUEST MADE: AUG 28, 2024@14:11:28
REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
SITE NAME: 2019 DEMO TRIBAL HOSPITAL STA
                                            STATION NUMBER: 8992B
  REFILL COUNTS: 0 REC
REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
                                            REQUEST MADE: AUG 28, 2024@14:11:28
SITE NAME: 2019 DEMO-2 CLINIC TIN B
                                            STATION NUMBER: 8992C
  REFILL COUNTS: 0
                                            REQUEST MADE: AUG 28, 2024@14:11:28
  REQUEST SUCCEEDED: AUG 28, 2024@14:11:28
Enter RETURN to continue or '∧' to exit: ■
```

Figure 4-4: Med Refill Task History

 Selecting the Review Task Detail (R) option and choosing a task number from the list will display a screen similar to Figure 4-5.

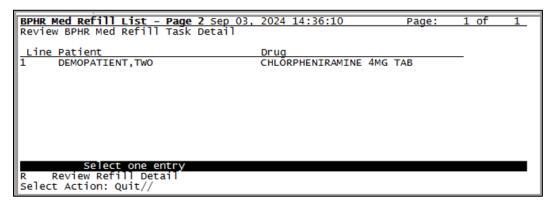


Figure 4-5: List of Refill Requests Pulled Down in Selected Task Run

 Selecting the Review Refill Detail (R) protocol and selecting one of the refill tasks from the list will display detailed information regarding the medication refill request as shown in Figure 4-6.

```
REQUEST PICK UP DATE/TIME: AUG 28, 2024@14:13:40
  PATIENT: DEMOPATIENT, TWO
  REFILL REQUEST TASK: AUG 28, 2024@14:11:27
SITE NAME: 2013 EHR STAT
                                              STATION NUMBER: 8993F
                                              RXIEN: 1697839
  PLACER ORDER NUMBER: 1498337
                                              MAIL/WINDOW: WINDOW
  RX#: 8000101
  CLINIC: OPEN ACCESS MCCOY
                                              LAST ACTION: 2
  PENDING OUTPATIENT ORDERS IEN: 223544
  REFILL REQUEST TASK DATE/TIME: AUG 28, 2024@14:11:27
 ORDER TYPE: REFILL REQUEST PROVIDE
PHARMACY ORDERABLE ITEM: CHLORPHENIRAMINE 4MG
                                              PROVIDER: POSTMASTER
  DRUG: CHLORPHENIRAMINE 4MG TAB
                                              LOGIN DATE: AUG 28, 2024@14:13:40
  PRIORITY: ROUTINE
                                              PICKUP ROUTING: WINDOW
  RX REFILL REQUEST: 1697839
                                              REASON ORDER CREATED: REFILL
  RELATED INSTITUTION: 2019 DEMO HOSPITAL (INST)
  PENDING OUTPATIENT ORDERS IEN: 223544
  REQUEST RESPONSE ATTEMPTED: AUG 28, 2024@14:13:40 REQUEST RESPONSE SUCCEEDED: AUG 28, 2024@14:13:40
Hit ENTER to continue:
```

Figure 4-6: Medication Refill Request Detail

• BPHR MEDICATION REFILL TASK [BPHR MEDICATION REFILL TASK]

 This option will run the task to connect to the PHR server and download any waiting medication refill requests.

5.0 Routine

5.1 Routine List

The routine list in Table 5-1 includes all BPHR routines.

Table 5-1: BPHR complete routine list

Routine	Routine	Routine	Routine
BPHR1POS	BPHR21P1	BPHR21P2	BPHR21P3
BPHR21P4	BPHR21P5	BPHR21P6	BPHRCHK
BPHRCLAS	BPHRMD	BPHRMH	BPHRMRR0
BPHRMUPM	BPHRSSL	BPHRUPD	N/A

5.2 Routines with Description

Table 5-2 lists and describes each routine in this version.

Table 5-2: BPHR routines and descriptions

Routine	Description		
BPHR1POS	Post-install routine		
BPHR21P1	Installation program for v 2.1 p1		
BPHR21P2	Installation program for v 2.1 p2		
BPHR21P3	Installation program for v 2.1 p3		
BPHR21P4	Installation program for v 2.1 p4		
BPHR21P5	Installation program for v 2.1 p5		
BPHR21P6	Installation program for v 2.1 p6		
BPHRCHK	Checks the connection and checks a patient's information.		
BPHRCLAS	Cache Class Compiler		
BPHRMD	D Medication Refill History–Medication Details List Template		
BPHRMH	Medication Refill History–Task Listing List Template		
BPHRMRR0	Medication Refill Task Routine		
BPHRMUPM	API to be called by MU Performance report and DIRECT email butto		
BPHRSSL	Sets up the SSL/TLS Configuration		
BPHRUPD Updates the web service information and contains two APIs; one setting up the Messaging Agent(s) and one for the report Provide			

5.3 API List

5.3.1 PHR^BPHRMUPM(DFN,BDT,EDT,.RESULT,PROV)

This API returns information needed in calculating certain Performance Measures.

Table 5-3: Parameters, Data Types, and Descriptions

Parameter	Data Type	Description
DFN	Numeric (Required)	The internal entry number of the patient, identified by the MU Performance report.
BDT	Numeric (Required)	The beginning date of the MU Performance report in FileMan date format.
EDT	Numeric (Required)	The ending date of the MU Performance report in FileMan date format.
RESULT	String	Specified as: [1] PHR Access ^ [2] Date Access Granted ^ [3] Login ^ [4] Date of Last Login ^ [5] Secure Message ^ [6] Date of Last Secure Message ^ [7] Patient's DIRECT email address
PROV	Numeric	The internal entry number of the provider, identified by the MU Performance report.

5.3.2 TMZ^BPHRMUPM()

This API returns the system time zone (Table 5-4).

Table 5-4: System Time Zone Parameter and Description

Parameter	Data Type	Description
None	N/A	N/A

5.3.3 DATE^BPHRMUPM(BPX)

This API takes a FileMan date (Table 5-5) and formats it for the PHR system requirements.

Table 5-5: FileMan Date Parameter

Parameter	Data Type	Description
ВРХ	Date	3131101.0001 to 2013-11-01T00:00:01-0600

5.3.4 FMDT^BPHRMUPM(BPX)

This API takes a PHR system date/date (with time zone) and converts it to a FileMan date/time (Table 5-6).

Table 5-6: Parameter to Convert PHR Date/Time to FileMan Date/Time

Parameter	Data Type	Description
ВРХ	Date/Time	2013-09-13T08:46:17-0600 to 3130913.084617

5.3.5 GMT^BPHRMUPM(DATE)

This API takes a GMT date/time and converts it to the local FileMan date/time (Table 5-7).

Table 5-7: Parameter to Convert GMT to FileMan Date/Time

Parameter	Data Type	Description
DATE	Date/Time	2013-09-13T08:46:17-0600 to 3130913.084617

5.3.6 PROV^BPHRUPD(PROV)

This API takes a provider and determines the provider's DIRECT email address based on the instructions given on how to create their address (Table 5-8).

firstname.lastname@FACILITYdomainaddress

Table 5-8: PROV Parameter Data Type and Description

Parameter	Data Type	Description
PROV	Numeric	The internal entry number of the provider.

5.3.7 AGNT^BPHRUPD(DFN)

This API takes a patient and determines the patient's messaging agents during the date range of the report period (Table 5-9).

Table 5-9: DFN Parameter and Description

Parameter	Data Type	Description
DFN	Numeric	The internal entry number of the patient.
	(Required)	

6.0 Files and Tables

6.1 File List

Table 6-1 contains a list of new files.

Table 6-1: New Files by Number, Name, and Description

File #	Filename	Description
90670.2	BPHR WEB SERVICE	This file contains information about the connections to web service endpoints.
90670.3	BPHR MED REFILL TASK HISTORY	This file contains historical details of the BPHR MEDICATION REFILL TASK option run runs.
90670.4	BPHR MED REFILL REQUESTS	This file contains a history of all the medication refill requests that have been downloaded from PHR.
90670.5	BPHR CLASS TRANSPORT	This file contains the classes that will need to be defined as part of the installation.

6.2 File Access

Table 6-2 contains the FileMan access to new files.

Table 6-2: FileMan Access by File Number, Name, etc.

File #	Filename	GL	RD	WR	LYG	DD	DEL
90670.2	BPHR WEB SERVICE	^BPHR(90670.2,	@	@	@	@	@
90670.3	BPHR MED REFILL TASK HISTORY	^BPHRMTSK(@	@	@	@	@
90670.4	BPHR MED REFILL REQUEST	^BPHRMREQ(@	@	@	@	@
90670.5	BPHR CLASS TRANSPORT	^BPHRCLS(@	@	@	@	@

6.3 Cross References

90670.2 (BPHR WEB SERVICE)

.01 Name

B Regular type cross reference

1 VERSION (multiple)

.01 VERSION

B Regular type cross reference

90670.3 (BPHR MED REFILL TASK HISTORY)

.01 RUN DATE/TIME

B Regular type cross reference

1 SITE NAME

.01 SITE NAME

B Regular type cross reference

90670.4 (BPHR MED REFILL REQUEST)

.01 REQUEST PICK UP DATE/TIME

B Regular type cross reference

.02 PATIENT

C Regular type cross reference

.03 REFILL REQUEST TASK

M Regular type cross reference

.08 RX#

P Regular type cross reference

.13 REFILL REQUEST TASK DATE/TIME

D Regular type cross reference

.13 REFILL REQUEST TASK DATE/TIME/.02 PATIENT

DP New type cross reference

.03 REFILL REQUEST TASK/.02 PATIENT

TP New type cross reference

90670.5 (BPHR CLASS TRANSPORT)

.01 Package Name

B Regular type cross reference

11 Class (multiple)

.01 Class

B Regular type cross reference

6.4 Table File

File: 90670.2 BPHR WEB SERVICE

Global: ^BPHR(90670.2,

Table 6-3: Web Service Field Numbers, Names, Subscripts, Pieces, and Types

Field #	Field Name	Subscript	Piece	Туре
.01	NAME	D0,0	1	F
.02	URL ROOT	"	2	F
.03	PORT NUMBER	"	3	F
.05	TIMEOUT OVERRIDE	"	5	F
.06	CURRENT VERSION	"	6	F
.07	USERNAME	"	7	F
.08	PASSWORD	"	8	F
.09	INACTIVE	"	9	S
.1	INACTIVE DATE	"	10	D
.11	SERVICE PATH	"	11	F
.12	CONNECTION TIMEOUT OVERRIDE	"	12	N/A
1	VERSION (90670.21)	D0,1,D1,0	1	N/A
.01	VERSION	"	1	F
.02	DATE INSTALLED	"	2	D
2.01	SSL/TLS CONFIGURATION	D0,2	1	F
4.01	RETRIES ON FAILURE	D0;4	1	N
4.02	MAXIMUM FAILURES	"	2	N

File: 90670.3 BPHR MED REFILL TASK HISTORY

Global: ^BPHRMTSK(

Table 6-4: Web Service Field Numbers, Names, Subscripts, Pieces, and Types

Field #	Field Name	Subscript	Piece	Туре
.01	RUN DATE/TIME	D0,0	1	D

Field #	Field Name	Subscript	Piece	Туре
.02	NUMBER OF REFILL REQUESTS	"	2	N
1	SITE NAME (#90670.31)	D0,1	N/A	N/A
.01	SITE NAME	D0,1,D1,0	1	P (#999999.06)
.02	STATION NUMBER	íí	2	F
.03	REFILL COUNTS	íí	3	N
.04	REQUEST MADE	íí	4	D
.05	REQUEST SUCCEEDED	íí	5	D
.06	REQUEST LAST FAILED	íí	6	D
1.01	REQUEST FAIL MESSAGE	D0,1,D1,1	1	F
2.01	ERROR MESSAGE	D0,2	1	F

File: 90670.4 BPHR MED REFILL REQUEST

Global: ^BPHRMREQ(

Table 6-5: Web Service Field Numbers, Names, Subscripts, Pieces, and Types

Field #	Field Name	Subscript	Piece	Туре
.01	REQUEST PICK UP DATE/TIME	D0,0	1	D
.02	PATIENT	ш	2	P (#900001)
.03	REFILL REQUEST TASK	u	3	P (#90670.3)
.04	SITE NAME	и	4	P (#999999.06)
.05	STATION NUMBER	и	5	F
.06	PLACER ORDER NUMBER	ш	6	F
.07	RXIEN	ш	7	F
.08	RX#	u	8	F
.09	MAIL/WINDOW	u	9	S
.1	CLINIC	u	10	P (#44)
.11	LAST ACTION	u	11	F
.12	PENDING OUTPATIENT ORDERS IEN	и	12	F
.13	REFILL REQUEST TASK DATE/TIME	и	13	D
1.01	ORDER TYPE	D0,1	1	S
1.02	PROVIDER	и	2	P (#200)

Field #	Field Name	Subscript	Piece	Туре
1.03	PHARMACY ORDERABLE ITEM	и	3	P (#50.7)
1.04	DRUG	"	4	P (#50)
1.05	LOGIN DATE	"	5	D
1.06	PRIORITY	"	6	S
1.07	PICKUP ROUTING	"	7	S
1.08	RX REFILL REQUEST	"	8	F
1.09	REASON ORDER CREATED	ii	9	S
1.1	RELATED INSTITUTION	"	10	P (#4)
1.11	PENDING OUTPATIENT ORDERS IEN	"	11	F
2.01	REQUEST RESPONSE ATTEMPTED	D0,2	1	D
2.02	REQUEST RESPONSE SUCCEEDED	и	2	D
2.03	REQUEST RESPONSE FAILED	и	3	D
2.04	REQUEST RESPONSE FAIL COUNT	и	4	N
3.01	REFILL REQUEST ERROR MESSAGE	D0,3	1	F

File: 90670.5 BPHR CLASS TRANSPORT

Global: ^BPHRCLS(

Table 6-6: Class Transport by Field Number, Name, Subscript, Piece, and Type

Field #	Field Name	Subscript	Piece	Туре
.01	PACKAGE NAME	D0,0	1	F
1.02	RPMS STATUS	ű	2	S
1.03	RPMS DATE/TIME INSTALLED	ű	3	D
10	XML (90670.51)	D0,10,D1,	N/A	W
11	CLASS (90670.511)	D0,11,D1	N/A	N/A
.01	CLASS	N/A	1	F

6.5 Callable Routines

There are no remote procedure calls added in this release.

6.6 Published Entry Points

BPHRMUPM.INT

PHR(DFN,BDT,EDT,RESULT,PROV);PEP

7.0 Internal Relations

All functions within this application work independently.

There are no documented internal relations in BPHR.

8.0 External Relations

8.1 External Calls

8.2 Callable Routines–Published Entry Points

This application contains no calls to external published entry points other than to standard **Kernel/FileMan** calls.

8.3 Exported Options

Table 8-1: Exported Option Names and Descriptions

Option Name	Description
BPHRMENU	Menu option
BPHR CHECK CONNECTION	Check for a successful connection to the PHR Web Service
BPHR EDIT WEB SERVICE	Edit a site's PHR Web Service, if needed
BPHR MED REFILL TASK HISTORY	Option to display the history of BPHR MEDICATION REFILL TASK runs
BPHR MEDICATION REFILL TASK	Task which will request medication refills for the site from PHR
BPHR MU DIRECT CHECK	Checks whether a DIRECT message was sent for a provider, date range and patient

9.0 Archiving and Purging

There is no archiving or purging in BPHR.

10.0 Documentation Resources

This section describes a few methods to generate BPHR technical documentation.

10.1 %INDEX Option

This option analyzes the structure of a routine to determine in part if the routine adheres to RPMS programming standards. The **%INDEX** 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 in the selected routines 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 Patient Registration package, type the BPHR namespace at the Routine(s)?> prompt.

10.2 List File Attributes Option

This **VA FileMan** option allows users to generate documentation pertaining to files and file structure. Using the standard format of this option yields 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

11.0 SAC Requirements and Exemptions

No exemptions are noted at this time.

12.0 Templates, Forms, and Protocols

12.1 Print Templates

There are no print templates in BPHR.

12.2 Sort Templates

There are no sort templates in BPHR.

12.3 Input Templates

BPHR ADD/EDIT WEB SERVICE

12.4 List Templates

There are no list templates in BPHR.

12.5 Forms

There are no forms in BPHR.

12.6 Protocols

There are no protocols in BPHR.

13.0 Accessibility Checklist

13.1 IHS Section 508 36 CFR Part §1194.21 Software Applications and Operating Systems Checklist

The BPHR package is not a software application that includes a user interface, and therefore the Section 508 compliancy checklist is not applicable.

Appendix A Sample API Calls

A.1 PHR^BPHRMUPM(DFN,BDT,EDT,.RESULT,PROV)

The following example shows the record of a patient who does not have an ICN (Master Patient Index) identifier or a patient who has not signed up for PHR:

```
Input Parameters:
DFN - Internal entry number of the patient
BDT - Beginning date of the report period
EDT - Ending date of the report period
Output Parameter:
RESULT - result of the query to the PHR server
Piece 1 - Signed up for PHR (0=No, 1=Yes)
Piece 2 - Date
Piece 3 - Accessed PHR (0=No, 1=Yes)
Piece 4 - Last date accessed
Piece 5 - Used secure messaging (0=No, 1=Yes)
Piece 6 - Last date used secure messaging
Piece 7 - Patient's DIRECT email address
>D PHR^BPHRMUPM(365,3130301,3130801,.RESULT)
>W RESULT
0^^0^^0^
```

The following example shows the record of a patient who signed up for PHR, has logged in, and has used secure messaging:

```
>D PHR^BPHRMUPM(31818,3130301,3130801,.RESULT,"")
>W RESULT
1^3130617.1046^1^3130819.1458^1^3130617.1046^testpatient@directihs.net
```

Glossary

Electronic Health Record (EHR)

An application used by medical organizations to track patient medical records and care.

Meaningful Use (MU)

Meaningful Use (MU) is a term used by CMS to ensure that providers and hospitals that have adopted certified EHR are using the technology to further the goals of information exchange among health care professionals. Eligible Providers (EPs) and Eligible Hospitals (EHs) will achieve meaningful use if the EP or EH (a) demonstrate use of certified EHR technology in a meaningful manner, (b) demonstrate the certified EHR technology provides for electronic exchange of health information to improve quality of care, and (c) use certified EHR technology to submit information on clinical quality and other measures.

Microsoft (MS)

Microsoft is a software company that develops and distributes the Visual Studio (VS) tool used to develop the BPHR application.

Office of Information Technology (OIT)

OIT is the organization within IHS that is responsible for developing and maintaining RPMS and related IT functions.

Resource and Patient Management System (RPMS)

A series of integrated software components that includes clinical, administrative, and financial functions.

Software Quality Assurance (SQA)

SQA is the office within OIT responsible for ensuring that the system conforms to RPMS Programming Standards and Conventions (SAC).

Acronym List

Acronym	Term Meaning
API	Application Programmer Interface
BPHR	Namespace for BPHR files and routines
DSM	Digital Standard Mumps
DTS	Distributed Terminology System
EHR	Electronic Health Record
GUI	Graphical User Interface
HIE	Health Information Exchange
I/T/U	Abbreviation referring to all IHS direct, tribal, and urban facilities. Using the abbreviation I/T/U generally refers to all components of the Indian healthcare system.
IDE	Integrated development environment
IHS	Indian Health Service
ITSC	Information Technology Support Center currently referred to as Office of Information Technology (OIT)
MS	Microsoft
MU	Meaningful Use
OIT	Office of Information and Technology
RPMS	Resource and Patient Management System
SAC	Standards and Conventions
SQA	Software Quality Assurance
SRD	Software Requirements Document
UI	User Interface

Contact Information

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