RESOURCE AND PATIENT MANAGEMENT SYSTEM

IHS PERSONAL HEALTH RECORD

(BPHR)

Addendum to Installation Guide and Release Notes

Version 2.1 Patch 1
October 2016

Office of Information Technology (OIT)
Division of Information Resource Management

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Preface

The purpose of this manual is to provide installation information for the Personal Health Record (BPHR) package. The BPHR package is designed to enable verified patients to request and view their Resource and Patient Management System (RPMS) data online.

1.0   Release Notes

This is patch for the first release of the Personal Health Record (PHR) application. The PHR is an on-line health record, accessible to patients, containing their medical history. Examples of items contained in a PHR are: clinical and hospital visits, laboratory results, medication history, chronic diseases, etc. BPHR enables patients to access their medical history to manage their health care. As a Meaningful Use (MU) certification requirement, a Performance measure needs to know if a patient logged onto the PHR and if a patient used secure messaging by either sending or receiving a message to a provider who has a DIRECT email address.

2.0 Installation Notes

Prefix: BPHR

Current Version: 4.0 Patch 11

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

- Make a copy of this distribution for offline storage.

- Print all notes and readme files.

- It is recommended that terminal output during the Kernel Installation and Distribution System (KIDS) installation be captured using an auxport printer attached to the terminal at which the user is performing the software installation or using a screen capture. This capture combined with the KIDS entry in the INSTALL file will ensure a printed audit trail should any problems arise.

2.1 Contents of Distribution

File	Description
bphr0210.01.k	KIDS file
bphr0210.01i.pdf	Installation Guide and Release notes
bphr0210.01u.pdf	User Manual
bphr0210.01t.pdf	Technical Manual

2.2 Required Resources

Module/Software	Minimum Version
InterSystems Ensemble	v2012 or later
VA FileMan (DI)	v22.0 Patch 1003 or later
VA Kernel (XU)	v8.0 Patch 1015 or later

2.3 Before You Begin: Installation Issues

2.3.1 BPHR Web Service

During the installation process, the connection information to the Personal Health Record server will be automatically included. A menu option has been provided to change this information if it becomes necessary in the future.

2.3.2   BPHR Package – Central Processing Unit (CPU) Capacity

The BPHR Application Programming Interface (API) calls should not have a noticeable impact on the CPU capacity.

3.0   Installation Instructions

3.1   Pre-KIDS Installation Setup Configuration

There are no special RPMS pre-KIDS installation setup configuration needed.

3.2   KIDS Installation Instructions

This section details the steps required to install the BPHR KIDS package. This is a new package with new routines, so there should not be anything on the system to back up or compare.

Also, no options need to be taken out of service because the components to be added will not be directly added to any existing options.

3.2.1   Pre-Installation

If possible, initially load the software on a test system, then on the production system. There are no routines or globals to remove after the installation is complete.

3.2.2   BPHR Installation

This is a standard KIDS installation. See Section 4.0 for sample Installation.

3.2.3   PHR Web Service

The installation includes the PHR web service information. As part of the install, a menu option has been imported if it ever becomes necessary to change any information on how to connect to the PHR server. Instructions will be given on how to use this option in the User Manual.

3.3   Set up the SSL/TLS CONFIGURATION

To connect to the production version of the IHS PHR server, a SSL/TLS CONFIGURATION must be first set up. The post installation process will set up the SSL/TLS CONFIGURATION for you.

4.0   Sample Installation

4.1   Sample Cache Install

> **Note**:   User responses appear in bold type.

```
    1       Load a Distribution
    2       Verify Checksums in Transport Global
    3       Print Transport Global
    4       Compare Transport Global to Current System
    5       Backup a Transport Global
    6       Install Package(s)
            Restart Install of Package(s)
            Unload a Distribution


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

Select Installation <TEST ACCOUNT> Option: 1  Load a Distribution
Enter a Host File: d:\PUB\bphr0210.01k

KIDS Distribution saved on Sep 16, 2016@09:44:01
Comment: PHR MU version 2.1 Patch 1

This Distribution contains Transport Globals for the following Package(s):
   BPHR*2.1*1
Distribution OK!

Want to Continue with Load? YES//
Loading Distribution...

Build BPHR*2.1*1 has an Environmental Check Routine
Want to RUN the Environment Check Routine? YES//
   BPHR*2.1*1
Will first run the Environment Check Routine, BPHR21P1

Use INSTALL NAME: BPHR*2.1*1 to install this Distribution.
    1       Load a Distribution
    2       Verify Checksums in Transport Global
    3       Print Transport Global
    4       Compare Transport Global to Current System
    5       Backup a Transport Global
    6       Install Package(s)
            Restart Install of Package(s)
            Unload a Distribution


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

Select Installation <TEST ACCOUNT> Option: 2  Verify Checksums in Transport
Global
Select INSTALL NAME: BPHR*2.1*1        Loaded from Distribution
9/30/16@06:13:54
     => PHR MU version 2.1 Patch 1  ;Created on Sep 16, 2016@09:44:01
```

```
This Distribution was loaded on Sep 30, 2016@06:13:54 with header of
   PHR MU version 2.1 Patch 1  ;Created on Sep 16, 2016@09:44:01
   It consisted of the following Install(s):
     BPHR*2.1*1

Want each Routine Listed with Checksums: Yes//   YES
DEVICE: HOME//   Virtual
PACKAGE: BPHR*2.1*1     Sep 30, 2016 6:14 am                    PAGE 1
-----------------------------------------------------------------------


BPHR21P1  Calculated    1038063
BPHRCLAS  Calculated   21622955
BPHRMUPM  Calculated   18599871
BPHRSSL   Calculated    6035451
BPHRUPD   Calculated    6006273

   5 Routines checked, 0 failed.



   1        Load a Distribution
   2        Verify Checksums in Transport Global
   3        Print Transport Global
   4        Compare Transport Global to Current System
   5        Backup a Transport Global
   6        Install Package(s)
            Restart Install of Package(s)
            Unload a Distribution


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

Select Installation <TEST ACCOUNT> Option: 6  Install Package(s)
Select INSTALL NAME: BPHR*2.1*1      Loaded from Distribution
9/30/16@06:13:
54
     => PHR MU version 2.1 Patch 1  ;Created on Sep 16, 2016@09:44:01

This Distribution was loaded on Sep 30, 2016@06:13:54 with header of
   PHR MU version 2.1 Patch 1  ;Created on Sep 16, 2016@09:44:01
   It consisted of the following Install(s):
     BPHR*2.1*1
Checking Install for Package BPHR*2.1*1
Will first run the Environment Check Routine, BPHR21P1


Install Questions for BPHR*2.1*1

Incoming Files:


   90670.2   BPHR WEB SERVICE  (including data)
Note:  You already have the 'BPHR WEB SERVICE' File.
I will OVERWRITE your data with mine.


   90670.5   BPHR CLASS TRANSPORT  (including data)
Note:  You already have the 'BPHR CLASS TRANSPORT' File.
I will OVERWRITE your data with mine.
```

```
Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//


Want KIDS to INHIBIT LOGONs during the install? NO//
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//

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

DEVICE: HOME//    Virtual

 Install Started for BPHR*2.1*1 :
               Sep 30, 2016@06:14:18

Build Distribution Date: Sep 16, 2016

 Installing Routines:

 Running Pre-Install Routine: PRE^BPHR21P1

 Installing Data Dictionaries:
               Sep 30, 2016@06:14:19

 Installing Data:
               Sep 30, 2016@06:14:19

 Installing PACKAGE COMPONENTS:

 Installing SECURITY KEY

 Installing INPUT TEMPLATE

 Installing OPTION

 Running Post-Install Routine: EN^BPHR21P1
Deleting class BPHR.PMQueryServiceHttpSoap11Endpoint
Deleting class BPHR.PMQueryServiceHttpSoap12Endpoint
Deleting class BPHR.WebServiceCalls
Deleting class BPHR.ax21.PMQueryResponse
Deleting class BPHR.ax21.PMRequest
Deleting class BPHR.ax21.Query
Deleting class BPHR.ns.Exception
List started on 09/30/2016 06:14:21
Listing file D:\intersystems\E3IHS\mgr\Temp\nAHyMEflFheDAg.xml as xml
List finished successfully.

Load started on 09/30/2016 06:14:21
Loading file D:\intersystems\E3IHS\mgr\Temp\F783EraKDZA3TQ.xml as xml
Imported class: BPHR.PMQueryServiceHttpsSoap11Endpoint
Imported class: BPHR.PMQueryServiceHttpsSoap11EndpointConfig
Imported class: BPHR.PMQueryServiceHttpsSoap12Endpoint
Imported class: BPHR.PMQueryServiceHttpsSoap12EndpointConfig
Imported class: BPHR.WebServiceCalls
Imported class: BPHR.ax21.PMQueryResponse
Imported class: BPHR.ax21.PMRequest
Imported class: BPHR.ax21.Query, compiling 8 classes
Compiling class BPHR.PMQueryServiceHttpsSoap11Endpoint
Compiling class BPHR.PMQueryServiceHttpsSoap11EndpointConfig
Compiling class BPHR.PMQueryServiceHttpsSoap12Endpoint
```

```
Compiling class BPHR.PMQueryServiceHttpsSoap12EndpointConfig
Compiling class BPHR.WebServiceCalls
Compiling class BPHR.ax21.PMQueryResponse
Compiling class BPHR.ax21.PMRequest
Compiling class BPHR.ax21.Query
Compiling table BPHR.WebServiceCalls
Compiling routine BPHR.PMQueryServiceHttpsSoap11Endpoint.1
Compiling routine BPHR.PMQueryServiceHttpsSoap12Endpoint.1
Compiling routine BPHR.WebServiceCalls.1
Compiling routine BPHR.ax21.PMQueryResponse.1
Compiling routine BPHR.ax21.PMRequest.1
Compiling routine BPHR.ax21.Query.1
Compiling class BPHR.PMQueryServiceHttpsSoap11Endpoint.queryRequest
Compiling class BPHR.PMQueryServiceHttpsSoap12Endpoint.queryRequest
Compiling routine BPHR.PMQueryServiceHttpsSoap11Endpoint.queryRequest.1
Compiling routine BPHR.PMQueryServiceHttpsSoap12Endpoint.queryRequest.1
Load finished successfully.

Updating 90670.5 Record

 Updating Routine file...

 Updating KIDS files

 BPHR*2.1*1 Installed.
              Sep 30, 2016@06:14:45

 Not a VA primary domain

 NO Install Message sent [1;24r[H[J[2J[H

Install Completed
```

Figure 4 – 1: Sample Install

5.0   Installation Configuration

There are two globals associated with the package in RPMS; BPHRCLS and BPHR. These globals do not need to be journaled and neither global will increase in size.

Glossary

Personal Health Record

An on-line health record, accessible to patients, containing their medical history. Examples of items contained in a PHR are: clinical and hospital visits, laboratory results, medication history, chronic diseases, etc.

Resource and Patient Management System (RPMS)

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

Acronym List

Acronym	Term Definition
API	Application Programming Interface
BPHR	PHR Namespace
CPU	Central Processing Unit
IHS	Indian Health Service
KIDS	Kernel Installation and Distribution System
MU	Meaningful Use
PHR	Personal Health Record
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