Enterprise Health Management Platform (eHMP)

Release Notes for Release Version 1.2.21

Department of Veterans Affairs (VA)

May 2017

Version 1.0

Revision History

Date	Version	Description	Author
05/04/2017	1.0	Update to document release of HMP*2.0*3 (T9)	Accenture Federal Services

Deliverable (Product) Version History

(**Note:** Yellow highlights components that changed)

Revision	Release Description	Date	eHMP User Interface (UI)	Health Management Platform (HMP) Patch	Pre-Requisite Patches
1.2.21	HMP*2.0*3	04-May-17	eHMP UI 1.2.7 1.2.rc30.88819	HMP*2.0*3	HMP*2.0*8
1.2.20	GMRV*5.0*35	23-Feb-17	eHMP UI 1.2.7 1.2.rc30.88819	GMRV*5.0*35	GMRV*5.0*32
1.2.19	HMP*2.0*8	29-Dec-16	eHMP UI 1.2.7 1.2.rc30.88819	HMP*2.0*8	HMP*2.0*2 PX*1.0*216 (Note: Associated patch; however, not a product or deliverable by Accenture Federal Services (AFS))
1.2.18	eHMP UI 1.2.7	16-Dec-16	eHMP UI 1.2.7 1.2.rc30.88819	HMP*2.0*2	HMP*2.0*1 (HMP_MULTIBUILD_2-0_P02_T3.KID) PSS*1.0*197 DG*5.3*921 GMRV*5.0*32 OR*3.0*421 PSB*3.0*95 MC*2.3*47

Revision	Release Description	Date	eHMP User Interface (UI)	Health Management Platform (HMP) Patch	Pre-Requisite Patches
1.2.17	HMP*2.0*2	19-Dec-16	eHMP UI 1.2.6 1.2.rc26.79841	HMP*2.0*2	HMP*2.0*1 (HMP_MULTIBUILD_2-0_P02_T3.KID) PSS*1.0*197 DG*5.3*921 GMRV*5.0*32 OR*3.0*421 PSB*3.0*95 MC*2.3*47
1.2.16	HMP*2.0*6	27-Oct-16	eHMP UI 1.2.6 1.2.rc26.79841	HMP 2.0*6	HMP*2.0*1
1.2.15	eHMP UI 1.2.6	26-Oct-16	eHMP UI 1.2.6 1.2.rc26.79841	HMP 2.0*1	HMP*2.0 (HMP_2-0_20160223-02.KID) PSB*3.0*94 (PSB3_0P94T6.KID) PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)
1.2.14	eHMP UI 1.2.5	1-Aug-16	eHMP UI 1.2.5 1.2.5.77365	HMP 2.0*1	HMP*2.0 (HMP_2-0_20160223-02.KID) PSB*3.0*94 (PSB3_0P94T6.KID) PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)
1.2.13	HMP*2.0*1	25-Jul-16	eHMP UI 1.2.4 1.2.4.70681	HMP 2.0*1	HMP*2.0 (HMP_2-0_20160223-02.KID) PSB*3.0*94 (PSB3_0P94T6.KID) PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)
1.2.12	PSB*3.0*94	10-May-16	eHMP UI 1.2.4 1.2.4.70681	HMP*2.0 v6.1.7 (HMP_2-0_20160223-02.KID)	PSB*3.0*94 (PSB3_0P94T6.KID) PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)
1.2.11	eHMP UI 1.2.4	06-Apr-16	eHMP UI 1.2.4 1.2.4.70681	HMP*2.0 v6.1.7 (HMP_2-0_20160223-02.KID)	PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)

Revision	Release Description	Date	eHMP User Interface (UI)	Health Management Platform (HMP) Patch	Pre-Requisite Patches
1.2.10	eHMP UI 1.2.3	17-Mar-16	eHMP UI 1.2.3 1.2.3.64914	HMP*2.0 v6.1.7 (HMP_2-0_20160223-02.KID)	PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID)
1.2.9	HMP*2.0 PRB 2.9	04-Mar-16	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.7 (HMP_2-0_20160223-02.KID)	PRB 2.9 (HMP_PREREQ_BUNDLE_2-0_V2-9.KID) (GMRC*3.0*80 MD*1.0*38 PSB*3.0*79 OR*3.0*390 TIU*1.0*106 TIU*1.0*298 USR*1.0*37)
1.2.8	HMP*2.0	17-Feb-16	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.6 (HMP_2-0_20160217-01.KID)	PRB 2.8 (HMP_PREREQ_BUNDLE_2-0_V2-8.KID)
1.2.7	HMP*2.0	11-Feb-16	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.5 (HMP_2-0_20160201-02.KID)	PRB 2.8 (HMP_PREREQ_BUNDLE_2-0_V2-8.KID)
1.2.6	HMP*2.0	27-Jan-16	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.4 (HMP_2-0_20160122-01.KID)	PRB 2.8 (HMP_PREREQ_BUNDLE_2-0_V2-8.KID)

Revision	Release Description	Date	eHMP User Interface (UI)	Health Management Platform (HMP) Patch	Pre-Requisite Patches
1.2.5	PRB 2.8	09-Jan-16	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.3 (HMP_2-0_20151030-01.KID)	PRB 2.8 (HMP_PREREQ_BUNDLE_2-0_V2-8.KID) (GMRC*3.0*80 MD*1.0*38 PSB*3.0*79 OR*3.0*390 TIU*1.0*106 TIU*1.0*298 USR*1.0*37)
1.2.4	HMP*2.0	30-Dec-15	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.3 (HMP_2-0_20151030-01.KID)	PRB 2.4 (HMP_PREREQ_BUNDLE_2-0_V2-4.KID)
1.2.3	eHMP UI 1.2.2	17-Nov-15	eHMP UI 1.2.2 1.2.2.49391	HMP*2.0 v6.1.2.J (HMP_2-0_20150910-04.KID)	PRB 2.4 (HMP_PREREQ_BUNDLE_2-0_V2-4.KID)
1.2.2	eHMP UI 1.2.1 HMP*2.0 PRB 2.4	14-Oct-15	eHMP UI 1.2.1 1.2.1.47792	HMP*2.0 v6.1.2.J (HMP_2-0_20150910-04.KID)	PRB 2.4 (HMP_PREREQ_BUNDLE_2-0_V2-4.KID) (GMRC*3.0*80 MD*1.0*38 PSB*3.0*79 OR*3.0*390 TIU*1.0*106 TIU*1.0*298 USR*1.0*37)
1.2.1	HMP*2.0	22-Aug-15	N/A	HMP*2.0 v6.1	N/A

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1. Introduction

The Enterprise Health Management Platform (eHMP) project is a multi-year effort to evolve a modern, service-oriented platform which provides a web-based user interface (UI), clinical data services, and assembles patient clinical data from federated Veterans Health Information Systems and Technology Architecture (VistA) repositories, Department of Defense (DoD), and private partner data sources, reflective of each location providing care to the patient. This federated data is aggregated into an enterprise patient record. eHMP service components will span all application layers, including presentation, business and core services, and data access.

Release 1.2 introduces critical viewer edition enhancements to provide new capabilities to the Department of Veterans Affairs (VA) beyond what is available today via Computerized Patient Record System (CPRS), Joint Legacy Viewer (JLV), and VistAWeb. The system provides enhanced presentations of clinical data that range from trend views that provide a quick snapshot of easily understandable data, to detailed views that provide the user with a full range of options for examining longitudinal patient medical records. Users are able to configure these views into a limitless number of custom workspaces in order to support a variety of clinical workflows. There are multiple pre-configured workspaces available to the user, which are filtered for specific conditions. The workspaces provide the appropriate clinical information for a selected condition (e.g., COPD, Diabetes). Further enhancements included adding the Military History information, improved text search across the entire patient record, and more extensive online help utilizing an expanded User Guide.

1.1. Purpose

This document provides an overview of the resolved and known defects associated with this release.

This document version covers the release of eHMP Version 1.2.21 for HMP*2.0*3.

1.2. Scope

These release notes covering eHMP Release Version 1.2.21 are the first notes for this release.

2. Release Method

Release execution is dependent upon the type of code released. These consolidated release notes will cover both VistA Kernel Installation and Distribution System (KIDS) and eHMP UI (web-based) releases, as both comprise the totality of eHMP as an application. Releases will occur first in Pre-production/Test accounts and then in Production.

The rollout strategy for both types of code depends upon the complexity of the release. Complex releases will be executed as a controlled release by wave, while more routine releases will be executed simultaneously nation-wide, following the standard national patch release process.

VistA releases will occur via FORUM and eHMP UI releases will be executed by the Release Team installing eHMP code into the Austin Information Technology Center (AITC) accounts. Following successful deployment to AITC, the Release Team will install the same version into

the Philadelphia Information Technology Center (PITC) Production account for a warm-based failover contingency.

3. Installation Requirements

Section 3.1 refers to the document for deploying this eHMP release into a VA data center such as AITC and PITC. These components are the non-VistA parts of the application.

Section 3.2 discusses the installation of VistA M routines and patches into a VistA site.

3.1. eHMP UI Installation

3.1.1. Installation and System Requirements

Please refer to the eHMP Data Center Deployment, Installation, Back-Out, and Rollback Guide for details on hardware (HW) specifications, software (SW) specifications, and platform installation, including select virtual machines (VMs), server set up, and configuration requirements.

3.2. VistA Patch Installation

3.2.1. Prerequisites for Installation

A prerequisite for installation is that sites are up to date, meaning, that previously nationally released patches have been installed.

3.2.2. Needed Dynamic Link Libraries (DLLs)

Not applicable to eHMP.

3.2.3. M Triggers

Appendix 1 lists a description of triggers/events that impact eHMP.

3.2.4. Files

Appendix 2 provides a list of new/modified VA FileMan files that are exported with eHMP KIDS patches.

3.2.5. Approved Integration Control Registrations (ICRs)

Appendix 3 provides the eHMP ICRs.

3.2.6. New Parameters

Appendix 4 provides a list of new parameters for eHMP VistA, exported using the Kernel Parameters File. There are no new parameters for the eHMP UI.

3.3. Operational Data Sync and Patient Data Sync

In the current eHMP system, all operational data from the primary VistA site must be complete before any patient sync can occur. The approach for handling operational data in VistA Exchange Synchronization (VX-Sync), however, must eliminate blocking where possible, avoid bottlenecks, and contribute to the overall scalability of the system.

3.3.1. Implementation Strategy for VX-Sync

- **Operational Data Subscription Handler** – The purpose of the Operational Data Subscription Handler is simply to initiate the operational data sync. It will accept an operational subscription job which contains a list of sites to subscribe for operational data. For each site in the given list, it will send out the appropriate remote procedure call (RPC) so that the site will begin staging and sending operational data.
- **Integration of metastamps** – Metastamps will be applied to operational data up to the "source" layer so that the system can keep track of the progress of the initial operational data sync per site. An operational data metastamp is used to ensure that all the operational data from a site is received during the initial sync with that site. Operational data does not have a last edit time to be used for the metastamp. Therefore, the operational data metastamp will be produced using the request time instead, similar to secondary site data.
- **Operational data pathway (Store Operational Data Handler and additions to Vista Site Data Poller)** – Data sent by the VistA systems will be received by the Vista Site Data Pollers. The Data Pollers will receive both operational and patient data from the primary sources; however, it is not appropriate for operational data to be sent to the Record Enrichment Handler. Therefore, the Vista-Record-Processor determines which type of data it receives and subsequently send that data on the appropriate pathway. If the handler receives operational data, it will send it to a Store Operational Data Handler. The Store Operational Data Handler will send the operational data to JSON Data Store (JDS) to be stored in the appropriate section of JDS.
- **Determining when a site is ready to sync patients** – The Sync Rules Engine includes rules to make sure that a primary site is not synchronized until its operational data has been successfully loaded.

4. Known Issues

4.1. Known Patient Safety Issues

There are no registered patient safety issues in this release.

4.2. Other Known Issues

At the time of writing, there are no known issues for HMP*2.0*3.

5. Included Defect Fixes

The defects resolved in HMP*2.0*3 are listed below in Tables 5-1 and 5-2. Table 5-1 lists the fixed defects and Table 5-2 provides VA-reported fixed defects.

5.1. Fixed Defects

The list of fixed defects in HMP*2.0*3 are listed below.

Table 5-1 Fixed Defects

ID	Name	Severity	Opened Date	Test Method/Test Case Identifier
DE3409	MAXSTRING at STRING+7^HMPD in Portland Production	Medium	01/06/2016	
DE3944	Procedures (Surgery/SR) and their result documents do not trigger a freshness update	High	02/29/2016	
DE4198	ICR 2048 Remediation - HMP should use the VPR 1.5+ improvements to use ENCEVENT^PXKENC	Medium	03/24/2016	
DE4214	HMPUPD and HMP PUT DEMOGRAPHICS are unused and need to be removed	Low	03/25/2016	
DE4264	ICR 2686 - OE/RR direct reference to XTV(8989.5	Low	03/31/2016	
DE4382	ICR 6395 - HMP READ ACCESS TO PS(55	Low	04/11/2016	
DE4469	ICR 6359 - Using STATUS^SDAMA308 API to retrieve the Patient Appointment Status	Low	04/19/2016	

ID	Name	Severity	Opened Date	Test Method/Test Case Identifier
DE4474	GETKEYS^HMPCRPC1 does not handle broken key pointers or delegated keys	Medium	04/19/2016	
DE4488	ICR 6369 - Accessing the MEDICATION ROUTES File (#51.2) using direct global reads	High	04/20/2016	
DE4496	Patient loop exits prematurely during Operational Data Synch if DFN is less than one. (pt-select domain)	High	04/20/2016	
DE4611	checkHealth does not include commas between list elements in JSON objects	Medium	04/28/2016	
DE4685	Direct Global Read: ^AUPNPROB	Medium	05/04/2016	
DE5033	Replace calls to the ICDCODE APIs to use ICDEX APIs	Medium	05/27/2016	
DE5080	Undefined error during ODS in orderable items domain. VALIDOI+3^HMPCORD4	Low	06/01/2016	
DE5411	Rebooked appointments have incorrect status	Low	06/22/2016	
DE5645	Order Detail: Missing Treating Specialty ID in JDS	Medium	07/12/2016	
DE6047	freshness stream error when deleting "tidy" nodes TIDYX+3^HMPDJFSG	Medium	07/29/2016	
DE6100	ICR Change GETFREQ^ORWLEX to call FREQ^LEXU	High	08/02/2016	
DE6147	Change direct global read of DIC(4 in HMPTFU2 to be FileMan reads	Medium	08/03/2016	
DE6285	"Refused" temperature vital JDS record has ""metricResults"" value of -17.8	Medium	08/10/2016	
DE6332	Narrative Lab Results: Missing Electron Microscopy Report Content And Status=Completed in eHMP versus Incomplete in VistA (Test Data Issue?)	Medium	08/12/2016	
DE6363	HMP Routines Are Missing ICR Documentation	Medium	08/16/2016	
DE6480	Unused RPCs in HMP UI CONTEXT	Medium	08/22/2016	
DE6589	HMP Remote Procedures no longer being used	Medium	08/29/2016	
DE6591	HL7 date-time format may be 12 characters instead of 14, related to DE5016	Medium	08/29/2016	
DE6629	Allergy Writeback not rejecting invalid entries	Critical	08/31/2016	
DE6644	update HMP CHKXTMP remote procedure to provide data that can be parsed and fix monitor	Low	08/31/2016	

ID	Name	Severity	Opened Date	Test Method/Test Case Identifier
DE6652	ICR 6357 - Remove sign-symptom domain	High	09/01/2016	
DE6856	Undefined variable HMPFRSP in Production site Omaha in routine HMPDJFS	High	09/14/2016	
DE6877	Portland_Production - Problems in CPRS not displaying in eHMP	High	09/14/2016	
DE7331	Unused RPCs should be removed from HMP UI CONTEXT and HMP SYNCHRONIZATION CONTEXT	Medium	12/21/2016	
DE7337	DGWPT BYWARD RPC needs to be added to HMP menu option	Medium	12/21/2016	
DE7517	HMP PATIENT SCHED SYNC should be in ""HMP SYNCHRONIZATION CONTEXT""	High	02/10/2017	
DE7809	Vista Poller loses batches in recovery situation	High	04/04/2017	

5.2. Fixed VA Defects

VA reported defects fixed in HMP_2.0*3 are listed below in Table 5-2.

Table 5-2 Fixed VA Defects

ID	VA-ID	Name	Severity	Opened Date	Test Method/Test Case Identifier
DE5111	I12324386FY17	I12324386FY17 - Undefined error retrieving child orders GET+8^ORQ12	Low	06/03/2016	
DE7372	I12161569FY17	I12161569FY17 - Loss of Resource slots creates a stuck Queue for Patient Sync but not freshness updates	Critical	01/09/2017	
DE7401	I12323167FY17	I12323167FY17 - VistA Production queues stuck, with no VistA error, and full resources available	High	01/17/2017	
DE7799	I13438824FY17	I13438824FY17 - Fix issue with the sync process getting into an infinite loop after installing patch HMP*2.0*3 at production sites	Critical	03/31/2017	
DE7806	I13495100FY17	I13495100FY17 - Patch 3 error in Indy during stuck queue problem Undefined HMPUTIL1 HMPDAT*	Critical	04/03/2017	

A. Appendix 1 – M Triggers

Table A-1 details the M Triggers.

Table A-1 M Triggers

M Triggers

```
Protocol Name                                    New/Modified/Deleted
-------------                                    --------------------
HMP DGPF ASSIGN FLAG                        Modified

PROTOCOL List                                      NOV 15, 2016@20:00   PAGE 1
------------------------------------------------------------------------------

NUMBER: 6193                              NAME: HMP DGPF ASSIGN FLAG
  TYPE: action                            CREATOR: PROGRAMMER,ONE
  PACKAGE: HEALTH MANAGEMENT PLATFORM
  DESCRIPTION:   Used to trigger a JDS update when the DGPF ASSIGN FLAG action protocol is used.  A
patient must have been selected and the DFN value is in DGDFN.

  ENTRY ACTION: I $G(DGDFN),$L($T(POST^HMPEVNT)) D POST^HMPEVNT(DGDFN,"patient",
DGDFN)
```

B. Appendix 2 – Files

Table B-1 details the new/modified VA FileMan files that are exported with eHMP KIDS patches.

Table B-1 VA FileMan Files

VA FileMan Files

```
STANDARD DATA DICTIONARY #800000 -- HMP SUBSCRIPTION FILE    11/15/16    PAGE 1
STORED IN ^HMP(800000,  *** NO DATA STORED YET ***   SITE: VEHU MASTER   UCI: VI
STA,ROU                                                      (VERSION 2.0)

DATA          NAME                  GLOBAL        DATA
ELEMENT       TITLE                 LOCATION      TYPE
------------------------------------------------------------------------------

800000,.07    DEFAULT?               0;7 SET

                                  '1' FOR YES;
                                  '0' FOR NO;
              LAST EDITED:        JUL 20, 2016
              HELP-PROMPT:        Enter 1 for the default eHMP primary
                                  subscription.
              DESCRIPTION:        This field identifies the primary eHMP
                                  subscription for this server. It identifies
                                  this server as the default for operations such
                                  as selecting a subscription to monitor in the
                                  option eHMP Dashboard [HMPMON DASHBOARD].  Only
                                  one server at a time can be set as the default.
                                  If this file contains only one record, then it
                                  will be used automatically as the default.

              TECHNICAL DESCR:    Used in $$GETSRVR^HMPMOND to identify the
                                  default subscription if this file contains more
                                  than one.
              FIELD INDEX:        AD (#1341)    REGULAR    IR    SORTING ONLY
                  Short Descr:    Index of operational data by server.
```

VA FileMan Files

```
                  Description:  This index is used to find operational data for
                                each eHMP server.
                    Set Logic:  S ^HMP(800000,"AD",X,DA)=""
                     Set Cond:  S X=X(1)
                   Kill Logic:  K ^HMP(800000,"AD",X,DA)
                    Kill Cond:  S X=X(1)
                   Whole Kill:  K ^HMP(800000,"AD")
                         X(1):  DEFAULT?  (800000,.07)  (Subscr 1)  (forwards)

STANDARD DATA DICTIONARY #800003 -- HMP EVENT FILE           11/15/16    PAGE 1
STORED IN ^HMPLOG(800003,  *** NO DATA STORED YET ***   SITE: VEHU MASTER   UCI:
 VISTA,ROU                                                    (VERSION 2.0)

DATA          NAME                  GLOBAL        DATA
ELEMENT       TITLE                 LOCATION      TYPE
--------------------------------------------------------------------------------
This file is used to log VistA events relevant to the eHMP environment.  Its
primary purpose is to record data that otherwise would not be logged, such as
corrupt or missing data, or broken pointers.

It is also used by the eHMP to log maintenance activities.
              DD ACCESS: @
              RD ACCESS:
              WR ACCESS: @
             DEL ACCESS: @
           LAYGO ACCESS: @
           AUDIT ACCESS: @
IDENTIFIED BY: EVENT DATE/TIME (#.02)[R]

CROSS
REFERENCED BY: TYPE OF EVENT(ATYP), LOG NUMBER(B), EVENT DATE/TIME(C)

800003,.01    LOG NUMBER             0;1 NUMBER (Required)

              INPUT TRANSFORM:  K:+X'=X!(X>999999999)!(X<1)!(X?.E1"."1N.N) X S:
                                $G(X) DINUM=X
              LAST EDITED:      JUN 13, 2016
              HELP-PROMPT:      Type a number between 1 and 999999999, 0
                                decimal digits.
              DESCRIPTION:      This is an integer that corresponds to the
                                internal entry number.

              TECHNICAL DESCR:
                                An integer with a DINUM relationship.

              NOTES:            XXXX--CAN'T BE ALTERED EXCEPT BY PROGRAMMER

              CROSS-REFERENCE:  800003^B
                                1)= S ^HMPLOG(800003,"B",$E(X,1,30),DA)=""
                                2)= K ^HMPLOG(800003,"B",$E(X,1,30),DA)

800003,.02    EVENT DATE/TIME        0;2 DATE (Required)

              INPUT TRANSFORM:  S %DT="ESTXR" D ^%DT S X=Y K:Y<1 X
              LAST EDITED:      JUN 13, 2016
              HELP-PROMPT:      Enter the date and time (with seconds) of the
                                event.  Time is required.
              DESCRIPTION:      This is a precise date with required time (with
                                seconds).  This field is required for each
                                entry.

              CROSS-REFERENCE:  800003^C
                                1)= S ^HMPLOG(800003,"C",$E(X,1,30),DA)=""
                                2)= K ^HMPLOG(800003,"C",$E(X,1,30),DA)
                                3)= Do not delete this cross-reference.  It all
                                ows for lookup by date/time.
                                Allows a user to look up an HMP EVENT entry by
```

VA FileMan Files

```
                                date and time.

800003,.03    TYPE OF EVENT          0;3 SET

                                'C' FOR corruption;
                                'I' FOR informational;
                                'M' FOR missing entry;
                                'O' FOR other;
              LAST EDITED:      JUN 13, 2016
              HELP-PROMPT:      Indicate the type of event that was logged.
                                This value is optional.
              DESCRIPTION:      A set of codes that will be used to classify
                                the type of event logged.

                                 C - Corrupt entry was found.  For example, the
                                value in a field would not pass
                                     the Input Transform.

                                 I - Informational. An event of note that would
                                not cause an error.
                                     For example, an entry was missing a field
                                that was expected, but not required.

                                 M - Missing entry. An internal entry number
                                (IEN) was found without a corresponding
                                     entry.  Also called a "broken pointer" or
                                "dangling pointer".

                                 O - Other type of event.  Use this code for
                                all other event types.

              CROSS-REFERENCE:  800003^ATYP
                                1)= S ^HMPLOG(800003,"ATYP",$E(X,1,30),DA)=""
                                2)= K ^HMPLOG(800003,"ATYP",$E(X,1,30),DA)
                                3)= Do not delete.  This field is used to sort
                                by event type.
                                This cross-reference can be used to provide
                                reports of specific event types.

800003,1      DESCRIPTIVE TEXT       1;0   WORD-PROCESSING #800003.01
                     (IGNORE "|")

INPUT TEMPLATE(S):

PRINT TEMPLATE(S):

SORT TEMPLATE(S):

FORM(S)/BLOCK(S):

STORED IN ^HMP(800000,  *** NO DATA STORED YET ***   SITE: VEHU MASTER   UCI: VI
STA,ROU
```

C. Appendix 3 – Approved ICRs

Table C-1 details the Approved ICRs.

Table C-1 Approved ICRs

Resource	DBIA #	Date Approved
^LAB(60	91	01/27/2016
ADM^VADPT2	325	12/18/2015
^DG(40.8	417	04/11/2016
LAB(61	524	11/19/2015
LRO(69	532	11/13/2015
^DIC(40.7	557	12/16/2015
^RAMIS(71.2	587	08/17/2016
EN1^ORQPT2	767	08/25/2016
EN^ORX8	871	03/30/2016
^RADPT("AO"	1172	03/18/2016
DGPM MOVEMENT EVENTS	1181	04/13/2016
PXK VISIT DATA EVENT	1298	05/18/2016
SDAM APPOINTMENTS EVENTS	1320	04/19/2016
^GMR(120.5,D0,2	1381	08/30/2016
EN1^GMRVUT0	1446	12/05/2015
GMRA ENTERED IN ERROR	1467	02/23/2016
GMRA SIGN-OFF ON DATA	1469	02/23/2016
RPC: TIU GET RECORD TEXT	1635	08/24/2016
RPC: ORQPT DEFAULT PATIENT LIST	1649	10/31/2016
RPC: ORQPT PROVIDER PATIENTS	1651	10/31/2016
ORQPT CLINIC PATIENTS	1652	01/22/2016
RPC: ORQPT SPECIALTIES	1653	10/31/2016
RPC: ORQPT SPECIALTY PATIENTS	1654	10/31/2016
RPC: ORQPT WARDS	1676	10/31/2016
RPC: ORWPT LIST ALL	1685	10/31//2016
RPC: TIU SIGN RECORD	1790	08/21/2016
ORWU USERINFO	1791	01/27/2016
RPC: TIU UPDATE RECORD	1799	08/21/2016
RPC: TIU REQUIRES COSIGNATURE	1800	11/16/2016
RPC: TIU CREATE ADDENDUM RECORD	1805	08/23/2016
RPC: TIU CREATE RECORD	1806	08/23/2016

Resource	DBIA #	Date Approved
RPC: TIU DELETE RECORD	1811	08/17/2017
RPC: ORWU VALIDSIG	1814	10/31/2016
RPC: ORWPT APPTLST	1815	10/31/2016
RPC: ORWPT ADMITLST	1817	10/31/2016
RPC: ORWU NEWPERS	1836	10/31/2016
RPC: ORWRP REPORT TEXT	1839	10/31/2016
ORWRP REPORT LISTS	1840	01/27/2016
ORWRP REPORT TEXT	1841	01/27/2016
^DGPM(	1865	04/15/2016
^DGPM("APCA", ^DGPM("APMV", ^DGPM("ATID1"	1865	04/15/2016
$$GETENC^PXAPI	1894	10/09/2015
ENCEVENT^PXAPI	1894	10/09/2015
ENCEVENT^PXKENC	1894	10/19/2016
$$TEAMCNT^SCAPMCU1	1918	10/29/2015
^AUTTEDT(“B”	1987	08/29/2016
^AUTTEXAM(“B”	1988	08/29/2016
AUTTHF(“B”	1989	08/02/2016
^AUPNVSIT	2028	11/25/2015
^GMR(120.8	2166	12/02/2015
MAIN^PXRM	2182	10/09/2015
$$TSDATA^DGACT	2248	11/30/2015
^AUPNVPRV(	2316	01/02/2016
WHATIS^USRLM	2324	03/29/2016
OCL^PSOORRL	2400	11/04/2015
OEL^PSOORRL	2400	11/04/2015
LRO(69	2407	11/26/2015
PS EVSEND OR	2415	02/17/2016
$$OI^ORX8	2467	03/30/2016
$$VALUE^ORX8	2467	03/30/2016
RR^LR7OR1	2503	11/04/2015
^ORD(100.03,D0,0),”^”)	2576	08/29/2016
^XTV(8989.5	2686	03/30/2016
TEAMPTS^ORQPTQ1	2692	10/16/2015
EXTRACT^TIULQ	2693	03/28/2016

Resource	DBIA #	Date Approved
TIU(8925.1	2700	11/23/2015
^AUPNPROB(	2727	03/30/2015
OER^GMRCSLM1	2740	02/02/2016
DETAIL^GMPLUTL2	2741	10/19/2015
LIST^GMPLUTL2	2741	10/19/2015
EDIT^VAFCPTED	2784	04/06/2016
$$CWAD^ORQPT2	2831	01/20/2016
$$RESOLVE^TIUSRVLO	2834	10/14/2015
^ORD(101.43	2843	12/02/2015
CONTEXT^TIUSRVLO	2865	11/23/2015
TGET^TIUSRVR1	2944	10/16/2015
EXPAND^LR7OU1	2955	11/15/2015
DOCLIST^GMRCGUIB	2980	02/02/2015
GMPL(125.8,”AD”	2974	08/02/2016
GMPL(125.8	2974	08/04/2016
NEW^GMPLSAVE	2978	08/04/2016
$$ISA^TIULX	3058	10/15/2015
$$PKGID^ORX8	3071	03/30/2016
^AUPNVPOV(	3094	11/25/2015
OR EVSEND GMRC	3135	03/13/2016
GMRC EVSEND OR	3140	02/16/2016
EN^ORQ1	3154	03/30/2016
RPC: TIU AUTHORIZATION	3194	08/23/2016
RPC: TIU DOCUMENTS BY CONTEXT	3198	08/17/2016
RPC: TIU IS THIS A CONSULT?	3201	08/17/2016
RPC: TIU LONG LIST OF TITLES	3204	08/21/2016
RPC: ORWU CLINLOC	3293	10/31/2016
RPC: ORWU DT	3363	10/31/2016
RPC: TIU GET REQUEST	3438	08/17/2016
DG FIELD MONITOR	3344	04/19/2016
^GMR(120.86	3449	12/01/2015
RA(79.2	3505	02/24/2016
LIST^SROESTV	3533	11/16/2015
ONE^SROESTV	3533	11/16/2015

Resource	DBIA #	Date Approved
DOCCLASS^TIUCL1	3548	09/14/2016
CPCLASS^TIUCP	3568	10/08/2015
ISCP^TIUCP	3568	10/08/2015
RPC: ORQPT WARD PATIENTS (Temp approval until Dec 2017)	3722	12/29/2016
DOSE^PSSOPKI1	3739	05/11/2015
RPC: ORWCV VST	3764	10/31/2016
^DGS(41.1	3796	04/13/2016
$$GETACT^DGPFAPI	3860	11/18/2015
RPC: TIU LOCK RECORD	3897	08/21/2016
RPC: TIU UNLOCK RECORD	3900	08/21/2016
ROC: TIU GET DOCUMENT TITLE	3923	08/17/2016
RPC: TIU SET DOCUMENT TEXT	3954	08/21/2016
RPC: TIU IS THIS A SURGERY?	3966	08/17/2016
RPC: GMV ADD VM	3996	08/17/2016
DETAIL^ORQ2	4203	10/31/2016
DEFLIST^ORQPTQ11	4204	03/03/2016
WARDPTS^ORQPTQ2	4207	03/03/2016
CLINPTS^ORQPTQ2	4207	03/03/2016
PROVPTS^ORQPTQ2	4207	03/03/2016
SPECPTS^ORQPTQ2	4207	03/03/2016
PCE4NOTE^ORWPCE3	4214	03/03/2016
EN1^MDPS1	4230	01/13/2016
PR690^MDPS1	4230	12/16/2015
LRPXRM^LRPXAPI	4245	11/05/2015
$$LRDN^LRPXAPIU	4246	11/05/2015
VHF^PXPXRM	4250	10/15/2015
VIMM^PXPXRM	4250	10/15/2015
VPEDU^PXPXRM	4250	10/15/2015
VSKIN^PXPXRM	4250	10/15/2015
VXAM^PXPXRM	4250	10/15/2015
^PXRMINDX(63	4290	11/19/2015
^PXRMINDX(, ^PXRMINDX(120.5, ^PXRMINDX(45	4290	11/19/2016
RPC: GMV GET CURRENT TIME	4355	08/17/2016
RPC: GMV VITALS/CAT/QUAL	4359	08/17/2016

Resource	DBIA #	Date Approved
RPC: GMV MARK ERROR	4414	08/17/2016
$$CREATE^XUSAP	4677	04/14/2016
EIE^GMRAGUI1	4682	06/01/2016
NKA^GMRAGUI1	4682	06/01/2016
UPDATE^GMRAGUI1	4682	06/01/2016
EN1^GMVDCSAV	4815	11/13/2015
ORQQPX REMINDERS LIST	4898	03/29/2016
ORQQPX REMINDER DETAIL	4899	04/06/2016
BYWARD^ORWPT	4904	01/27/2016
ORWPT BYWARD	4904	01/27/2016
PTTEST^YTQPXRM2	5035	06/01/2016
ENDAS71^YTQPXRM6	5043	11/07/2015
^YTT(601.71	5044	03/03/2016
^YTT(601.71	5044	01/08/2016
$$FDEFSRC^ORQPTQ11	5137	03/03/2016
GETDLG1^ORCD	5493	04/06/2016
GETORDER^ORCD	5493	04/06/2016
$$CLASS^TIUCNSLT	5546	10/13/2015
ISCNSLT^TIUCNSLT	5546	10/13/2015
RPC: ORWU VALIDSIG	5639	10/31/2016
EDITSAVE^ORWDAL32	5652	11/10/2016
DETAIL^ORWOR	5655	11/10/2016
ISSURG^TIUSROI	5676	10/13/2015
^TIU(8926.1	5676	12/30/2015
$$CLASS^TIUSROI	5676	10/21/2015
TIU(8925.1	5677	11/25/2015
$$START^SCMCMHTC	5697	10/14/2015
RPC^GMVRPCM	5702	05/11/2015
GET^ORQ12	5704	03/03/2016
$$ICDDX^ICDEX	5747	10/13/2015
^MDC(704.102	5748	01/08/2016
^ORA(102.4	5769	07/04/2016
OR(100	5771	03/03/2016
^WV(790.05	5772	02/04/2016

Resource	DBIA #	Date Approved
^MDC(704.117	5810	04/19/2016
^MDC(704.118	5811	12/16/2015
RPC: TIU ISPRF	5986	08/21/2016
RPC: PX SAVE DATA	6023	08/17/2016
ADMIN^PSBVPR	6038	04/13/2016
GMPL EVENT	6065	02/08/2016
GET^TIUVPR	6077	05/04/2016
$$IFC^GMRCAPI	6082	03/30/2016
ACT^GMRCAPI	6082	03/30/2016
GET^GMRCAPI	6082	04/19/2016
MDC OBSERVATION UPDATE	6084	04/20/2016
PSB EVSEND VPT	6085	05/04/2016
RA EVSEND OR	6086	02/16/2016
LR7O CH EVSEND OR	6087	02/16/2016
^USR(8930	6088	02/02/2016
^USR(8930.1	6089	12/01/2015
OR EVSEND FH	6090	03/03/2016
OR EVSEND LRCH	6091	02/16/2016
OR EVSEND ORG	6092	03/13/2016
OR EVSEND PS	6093	03/13/2016
OR EVSEND RA	6094	03/04/2016
OR EVSEND VPT	6095	03/29/2016
^TIU(8925	6154	01/20/2016
$$ACTLOC	6251	03/07/2016
$$LEXXFRM	6254	02/01/2016
DEFSORT	6261	02/07/2016
COMBPTS	6268	03/07/2016
IMTYPSEL	6269	03/07/2016
INPLOC	6272	03/07/2016
PCDETAIL	6273	03/07/2016
GETLIST	6274	03/07/2016
^EDP(230,"V"	6275	04/26/2016
^DIC(4.2,	6276	05/02/2016
^YTT(601.72	6277	03/15/2016

Resource	DBIA #	Date Approved
^TIU(8925.5	6279	11/25/2015
LAB(64.5	6280	12/17/2015
^OR(100.24	6283	04/06/2016
^DGCN(391.91	6284	05/02/2016
^PSB(53.79	6298	04/15/2016
TIU^HMPEVNT	6299	01/11/2016
POSTX^HMPEVNT	6301	01/11/2016
ORQQPL4 LEX	6348	02/02/2016
DGPF ASSIGN FLAG	6354	04/06/2016
GMRD(120.83	6357	02/04/2016
^ORD(100.98	6358	02/07/2016
STATUS^SDAMA308	6359	04/20/2016
GMRD(120.53	6364	02/24/2016
GMRD(120.52	6365	02/24/2016
GMRD(120.51	6366	02/24/2016
ORD(101.41	6367	03/03/2016
ORD(101.42	6368	03/04/2016
SCTM(404.51	6396	04/07/2016
FASTUSER	6397	04/06/2016
ORD(101	6400	04/07/2016
BSA AND BMI	6414	08/25/2016
DGPF EDIT ASSIGNMENT	6415	07/25/2016
DGPF CHANGE ASSIGNMENT OWNERSHIP	6416	07/25/2016
ERROR^GMUTL1	6422	06/29/2016
ORDRNUM	6426	08/19/2016
GETXTRA	6428	08/18/2016
File 120.5	6432	08/02/2016
VALID	6434	08/03/2016
ACCEPT	6435	08/03/2016
EDITSAVE	6436	08/02/2016
CLINPTS2	6437	08/03/2016
SAVE	6440	08/03/2016
LOCK	6440	08/03/2016
UNLOCK	6440	08/03/2016

Resource	DBIA #	Date Approved
LOCKORD	6440	08/03/2016
UNLKORD	6440	08/03/2016
SEND	6440	08/03/2016
LEX	6441	08/03/2016
LEX^ORWPCE4	6441	08/02/2016
VALIDSIG	6442	08/03/2016
DQSAVE^ORWPCE1	6443	08/03/2016
ADDSAVE^ORQQPL1	6448	11/08/2016
DELETE^ORQQPL2	6449	11/08/2016
EDLOAD^ORQQPL1	6450	11/08/2016
EDSAVE^ORQQPL1	6451	11/08/2016
PROB^ORQQPL3	6452	11/08/2016
RPC: ORQQPX REMINDER DETAIL	6453	11/08/2016
RPC: ORQQVI NOTEVIT	6454	08/17/2016
NOTEVIT^ORQQVI	6454	11/08/2016
RPC: ORWDAL32 ALLERGY MATCH	6455	11/08/2016
RPC: ORWDAL32 CLINUSER	6456	11/08/2016
RPC: ORWDAL32 SYMPTOMS	6457	11/08/2016
RPC: ORWDRA32 RAORDITM	6459	11/08/2016
RPC: ORWRP COLUMN HEADERS	6467	11/08/2016
RPC: ORWRP3 EXPAND COLUMNS	6468	11/08/2016
^TIU(8925 FIELD 1207	6488	08/30/2016
CLINDOC^TIULC1	6489	09/14/2016
RPC: PXVIMM ADMIN CODES	6635	01/11/2017
RPC: PXVIMM ADMIN ROUTE	6656	01/10/2017
RPC: PXVIMM ADMIN SITE	6657	01/10/2017
RPC: PXVIMM ICR LIST	6658	01/10/2017
RPC: PXVIMM IMM DETAILED	6659	01/10/2017
RPC: PXVIMM IMM FORMAT	6660	01/10/2017
RPC: PXVIMM IMM LOT	6661	01/10/2017
RPC: PXVIMM IMM MAN	6662	01/10/2017
RPC: PXVIMM IMM SHORT LIST	6663	01/10/2017
RPC: PXVIMM IMMDATA	6664	01/10/2017
RPC: PXVIMM VICR EVENTS	6665	01/10/2017

Resource	DBIA #	Date Approved
RPC: PXVIMM VIS	6666	01/10/2017
^DISV(	510	PENDING
RPC: ORWLR CUMULATIVE REPORT	1687	PENDING
^AUTTSK("B"	1991	PENDING
RPC: ORWPCE LEX	3725	PENDING
RPC: ORWLEX GETI10DX	6017	PENDING
FH EVSEND OR	6097	PENDING
RPC: ORWLRR INTERIM	6135	PENDING
SCMC PATIENT TEAM CHANGES	6355	PENDING
SCMC PATIENT TEAM POSITION CHANGES	6356	PENDING
SCPT(404.42	6402	PENDING
^LR(	6446	PENDING
RPC: ORCNOTE GET TOTAL	6447	PENDING
RPC: ORWLEX GETFREQ	6460	PENDING
RPC: ORWPCE GETSVC	6461	PENDING
RPC: ORWPCE HASVISIT	6462	PENDING
RPC: ORWPCE LEXCODE	6463	PENDING
RPC: ORWPCE NOTEVSTR	6464	PENDING
RPC: ORWPCE SAVE	6465	PENDING
RPC: ORWPCE SCSEL	6466	PENDING
RPC: ORWU EXTNAME	6469	PENDING
^AUPNVIMM(	6477	PENDING
^AUPNVIMM("AD"	6477	PENDING
RPC: ORWPCE PCE4NOTE	6614	PENDING
^YTT(601.71	6739	PENDING
RPC: DGWPT BYWARD	6759	PENDING

D. Appendix 4 – New Parameters

Table D-1 details the new parameters.

Table D-1 New Parameters

New Parameters

```
PARAMETER DEFINITION List                              NOV 15, 2016@20:14   PAGE 1
-------------------------------------------------------------------------------
NAME: HMPMON DASHBOARD UPDATE           DISPLAY TEXT: HMP Dashboard Update Rate
  VALUE DATA TYPE: numeric              VALUE DOMAIN: 3:300
  VALUE HELP: Enter a number between 3 and 300 seconds inclusively.
 DESCRIPTION:
 This parameter controls the behavior of option eHMP Dashboard [HMPMON
 DASHBOARD]. Most of this option's prompts time out normally, but its
 Action Prompts control monitoring screens that auto-update the screen when
 they time out, to provide dashboard functionality for monitoring the
 Vista-side eHMP software.

 This parameter ships with three settings:

 1) a package default setting, defined by the eHMP development team using
 parameter template HMPMON DASHBOARD PKG, accessed through menu option Set
 Package's Dashboard Auto-update Rate [HMPMON SET PKG DASHBOARD RATE],
 which should not be changed at local sites;

 2) a system setting that will override the package setting; it can be
 defined by the local system manager using parameter template HMPMON
 DASHBOARD SYS, accessed through menu option Set System's Dashboard
 Auto-update Rate [HMPMON SET SYS DASHBOARD RATE];

 3) a user setting that overrides the other two; it is defined by the
 current user using parameter HMPMON DASHBOARD USR, accessed by the
 dashboard action Change Auto-update Rate action within option eHMP
 Dashboard [HMPMON DASHBOARD].

 It is usually set to 3 to 30 seconds, but can be set as high as 300
 seconds to support demonstration or teaching situations. If it is wholly
 absent, the user's default Vista time-out rate is used.
PRECEDENCE: 1                           ENTITY FILE: USER
PRECEDENCE: 2                           ENTITY FILE: SYSTEM
PRECEDENCE: 3                           ENTITY FILE: PACKAGE

Template Name - Parameter                New/Modified/Deleted
-------------------------                                    --------------------
HMPMON DASHBOARD PKG                              New
HMPMON DASHBOARD SYS                              New
HMPMON DASHBOARD USR                              New

PARAMETER TEMPLATE List                                NOV 15, 2016@20:12   PAGE 1
-------------------------------------------------------------------------------
NUMBER: 123                             NAME: HMPMON DASHBOARD PKG
  DISPLAY TEXT: Dashboard Auto-update Rate
  USE ENTITY FROM: PACKAGE
SEQUENCE: 1                             PARAMETER: HMPMON DASHBOARD UPDATE

NUMBER: 125                             NAME: HMPMON DASHBOARD SYS
  DISPLAY TEXT: Dashboard Auto-update Rate
  USE ENTITY FROM: DOMAIN
SEQUENCE: 1                             PARAMETER: HMPMON DASHBOARD UPDATE
NUMBER: 124                             NAME: HMPMON DASHBOARD USR
  DISPLAY TEXT: Dashboard Auto-update Rate
  USE ENTITY FROM: NEW PERSON
SEQUENCE: 1                             PARAMETER: HMPMON DASHBOARD UPDATE
```