Department of Veterans Affairs

VistA Clinical Application & Enterprise Core Services

Version Description Document

for

Enterprise Health Management Platform (eHMP)

Contract Number: VA 118-1011-0013

September 2014

Version 1.0

Revision History

Note: The revision history cycle begins once changes or enhancements are requested after the document has been baselined.

Date	Version	Description	Author
9/26/2014	1.0	Updated with final Build Information.	[redacted]
9/15/2014	0.1	Version Description Document for eHMP 1.0 - DRAFT	[redacted]

Artifact Rationale

The Version Description Document (VDD) is the primary configuration control document used to track and control versions of software to be released to the operational environment. It is a summary of the features and contents for the software build. It identifies and describes the version of the software being delivered, including all changes to the software since the last VDD was issued. Every release of the software (including the initial release) shall be described by a VDD. Without this document, it would be nearly impossible to move an application or system from development to deployment reliably. Therefore the document is mandatory for each deployment.

Instructions

This template contains a style named Instructional Text. Text using this style is only to provide guidance in completing the document – the final document should not contain Instructional Text. Text in paragraphs added after Instructional Text is automatically set to the appropriate body text style. For best results and to maintain formatting consistency:

Use the provided paragraph styles.

Delete all Instructional Text before finalizing the document, including these instructions.

The following project types are required to complete this artifact. Exceptions are outlined where needed throughout the document.

Activity	New Capability [A]	Feature Enhancement [B]
Field Deployment [1]	Yes	Yes
Cloud/Web Deployment [2]	Yes	Yes
Mobile Application [3]	Yes	Yes

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1. Scope

The Version Description Document (VDD) establishes uniform requirements for software development and documentation deliveries. The deliveries could be anything from a single document, a process, an application build up, to a system of systems. It is required for all releases including all internal deliveries to internal customers.

The VDD pulls together all the approved change requests (CRs) for all deliverables: source code, data, and electronic documentation. If the VDD is defining an application build, then it will include the build-level version inventory. It requires commentary and assertion from the Release Manager that the delivery has been put together under a standard process and has the integrity required by the application for the control, review, and audit procedures inherited in CM processes.

The VDD is an inventory document similar to a packing list that is received with a shipment or a bill of materials. It itemizes the differences between previous and current deliverables in terms of change orders implemented, and provides a sign-off statement from the Release Manager. This follows the required Change and Configuration Management procedures in order to hand off the deliverable and approved changes. The VDD does not take the place of the Release Notes document. Development and support personnel are available for collaboration as needed. The basic AcS documentation packet, consisting of user, technical, and installation documents, supports this collaboration. The VDD speaks to additional functionality, changes in the technical infrastructure, and the business purpose/mandate for a release. The VDD does not supersede the need for user-friendly Release Notes that capture the functional and operational changes.

This version of the VDD document covers the eHMP 1.0 system. These approved features make up the functionality identified in Appendix A release notes

2. Version Description

This release of *version 1.0.0 Build 3492* of *eHMP* system (UX Increment 1 and UX Increment 2) consists of the system or product build, all documentation, and applicable release notes produced to date by the eHMP for the *Electronic Health Management Platform*. eHMP Release 1.1 will include final, customer accepted versions of documentation. This VDD contains the change record reports for defects and enhancements that were completed and applied to *v1.0.0 Build 3492* of *eHMP*. All artifacts listed here are contained within the *eHMP* CM Version Management Archive. This executable was made with CM involvement, and therefore CM certifies the ability to reproduce it. All artifacts used to produce this delivery are in the CM repository and were managed by CM for producing the deliverable following CM processes and procedures.

The package named "<package name>" consists of the following files to describe this release:

- *eHMP*_Version_Description_Document.doc
- Table 2 identifies all build components associated with this release
- Table 3 identifies all release documentation associated with this release

The eHMP 1.0.0 Build 3492 will be implemented at AITC Enterprise Operations (EO) Cloud Production environment.

3. Change Request Reports

This is the first release of eHMP and establishes the product baseline. Table 1 identifies each product feature included in this release. The change request id is reported in the contract Change Request Summary Report. Features are governmed by the eHMP Feature Release Board (FRB). The source system for Features is the eHMP instance of Rally Application Lifecyle Management (ALM) Tool.

Table 1 – Product Features in this release

Change Request ID	Feature ID	Feature Name
CR_0027	F9	eHMP Access Control
CR_0028	F84	Document Enrichment (Terminology) Foundation
CR_0051	F87	Security Planning and Hardening of the Framework (including Encryption)
CR_0052	F88	Multi-Node Production Readiness Framework (including Scalability / Reliability)
CR_0053	F93	VistA Exchange Fast Healthcare Interoperability Resources (FHIR) API Integration
CR_0055	F99	Policy Decision Point Integration (Access Control)
CR_0056	F96	Addition of patient generated Vitals domain data from the VLER DAS
CR_0057	F100	Integration of Inpatient Medications, Outpatient Medications, and Radiology Reports domain data into the VistA Exchange API
CR_0058	F108	Integration of patient domain data from all VistA sites with VistA Exchange
CR_0060	F110	Integration of Authentication/Authorization into the VistA Exchange API
CR_0061	F111	Normalization of Release 1 Data Domains
CR_0062	F112	Integration of Clinical Notes and Problem List domain data into VistA Exchange API
CR_0063	F113	Integration of Discharge Summaries and Anatomic Pathology domain data into VistA Exchange API

CR_0064	F114	Integration of Orders, Immunizations, Consults into VistA Exchange API
CR_0077	F138	Complete FHIR API
CR_0066	F116	Add Remaining DoD data from JMeadows to VistA Exchange API

4. Release Inventory

Table 2 lists the release inventory.

Table 2 - Inventory of Release Components

Release Component	Description	Method of Delivery	Recipient	Location
BACKEND_VERSION 1.0.0 Build #3492	VistA Exchange API	Installation	OI&T	AITC EO
HMP_MAIN_VERISON 1.0.0 Build #1647	Synchronization process	Installation	OI&T	AITC EO
HEALTH_TIME_CORE_VERSION 1.0.0 Build #37	Libraries used by the synchronization process	Installation	OI&T	AITC EO
HEALTH_TIME_SOLR_VERSION 1.0.0 Build #16	Libraries used by the synchronization process	Installation	OI&T	AITC EO

4.1. Electronic Media Released

All build artifacts will be deliverved via Secure Copy to AITC. Source Code will be delivered to OSERHA via the code drop process.

4.2. Physical Media Released

There is no Physical Media associated with this this release.

5. Associated Supporting Documentation

Table 3 lists the support documents that are associated with this deliverable:

Table 3 - Associated Supporting Documentation

Document Name	Revision	Date
Requirements Specification Document	1.5	8/29/2014

Document Name	Revision	Date
Requirements Traceability Matrix	1.0	9/15/2014
Production Operations Manual	1.0	9/15/2014
System Design Document	2.2	9/15/2014
Version Description Document	1.0	9/15/2014
Operational Acceptance Plan	1.2	9/5/2014
Deployment Plan	1.0	9/15/2014
Installation Guide	1.0	9/15/2014
Master Test Plan	1.2	9/15/2014

6. Certification

The Release Manager for this release certifies that the contents of the packaged release defined by this VDD consist of artifacts archived in the CM environment for *eHMP 1.0.0 Build 3492* as baseline ID 6ba4e90777c4d02ca10dadaf2254a9f0ce844124 as recorded in CM repository on *09/26/2014*.

The status of all change requests and code change requests listed in this document in the Change Record Reports section have been verified and are consistent with what is reported here.

_____

Signed Date

Appendix A. Release Notes Template

A.1. Introduction

eHMP 1.0 (VistA Exchange) provides an enterprise patient record data cache, including data from the VA and DoD. This data cache will be utilized by the eHMP GUI (yet to be developed) as the data source for nearly all of the information presented to an eHMP user. Based upon business triggers (such as an appointment, admission, or patient search), the VX web API allows for a user to retrieve a patient's record by Integration Control Number (ICN). If that patient has not been synchronized (does not currently have a valid record in the cache), VX will perform data synchronization calls to VA and DoD source systems for the selected patient. The data is normalized using standard terminologies (ex. SNOMED-CT, LOINC) to create consistent terms for searching and presentation. That data is stored in an indexed method to ensure rapid retrieval based upon the patient identifier or through a text search. The data is only temporarily stored in the cache. Once the data has reached a yet to be determined age it is purged. Future data synchronization efforts driven off of the triggers described above will re-populate the cache with the patient's latest information, ensuring the data is as up-to-date aspossible.

VX leverages the HMP Virtual Patient Record (VPR) logic. During early deployment of VX, the eVPR will be used essentially as-is. VX will be evolved to achieve scalability and performance goals as features and users are added.

A.1. Purpose

These release notes cover the new features provided to eHMP Version 1.0 (Vista Exchange) users in this release. All other documents referenced herein can be found at [redacted]

A.2. Audience

This document targets users and administrators of the eHMP Version 1.0 (Vista Exchange) product and applies primarily to the changes made between this newest release and previous release packages of the software.

A.2. This Release

The following sections provide, in brief, the new features and functions added to eHMP Version 1.0 (Vista Exchange).

A.3. Features and Functionality

The following table lists the new features added in the release.

Table 4 - New eHMP Version 1.0 (Vista Exchange) Features

Features
Creation of the VX data cache consisting of data fields necessary to temporarily store VA and DoD patient data across the following 14 data domains: – *Laboratory results* – *Inpatient Medications (dispensed and current directions for patient)* – *Outpatient Medications (dispensed and current directions for patient)* – *Vitals* – *Demographics / Basic Information* – *Allergies* – *Radiology Reports* – *Clinical Documentation (notes)* – *Problem List* – *Anatomic Pathology* – *Discharge Summary* – *Orders* – *Consults* – *Immunizations*
Creation of the VX data cache consisting of data fields necessary to temporarily store VA patient data across the following 14 data domains.
Implementation of the terminology services that will transform the data received from all Systems of Record (SOR) to support consistent presentation of the data in a GUI as well as various data search capabilities
Integration of data from multiple VA and DoD data sources. The capability to receive data from other 3rd party sources was created although no actual 3rd party sources of data are currently available.
Security requirements were identified and met in order to receive a TATO/ATO
Integration planning with MVI for lookup of VistA Identifiers (DFN), used while doing the pull of data from VistA to populate the cache in response to a API request for patient data Web Service API to support lookup of patient by identifier or name traits (such as last name and first name) with the Master Veteran Index (MVI)

Features
API web services interface necessary to expose VX data types/domains in the HL7 FHIR format gto support future authorizrd external consumers of the data. Initial release of the FHIR API inclides the following 5 domains: – *Vitals* – *Demographics / Basic Information* – *Allergies* – *Radiology Reports* – *Laboratory results*

A.3. Upgrades

This is the first production release of this application.

A.4. Known Issues

There are no known issues with this release.

A.5. Product Documentation

There is no end user functionality deployed with this release. Therefore no Product Documentation is made available.

Template Revision History

Date	Version	Description	Author
March 2013	1.1	Formatted to current ProPath documentation standards and edited to conform with latest Alternative Text (Section 508) guidelines	Process Management
January 2013	1.0	Initial Version	PMAS Business Office