

Department of Veterans Affairs

**Repositories Health Data Repository 3.8
Increment 12**

Requirements Specification Document

Version 1.0



September 2014

Revision History

Date	Version	Description	Author
07/29/2014	0.1	Increment 12 Functionality	
09/16/2014	1.0	Final with Signatures	

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1. Introduction

This documents the requirements for the Health Data Repository 3.8, Increment 12 Enhancement project in the Project Analysis and Management System (PMAS).

1.1. Purpose

The purpose of this Requirements Specification Document (RSD) is to provide the high-level requirements that are to be developed and deployed in the HDR 3.8 release. HDR utilizes the Agile development methodology to create and manage Epics and Stories, and to manage the requirements as they change to support customer input. This allows this RSD to serve as a living document and direct the reader to the specification documentation. As more stories are developed, they are documented and referenced.

Epics and Stories are refined and developed within the framework of the Agile methodology, which is based on a series of three-week sprints. Within Agile, each business need is documented in the HDR backlog and is mapped to one or more Epics. Each Epic is broken down into the associated Stories and tasks.

The goals for a successful outcome include:

1. Deliver the project in increments utilizing PMAS and ProPath processes
2. Deliver functionality based on a combination of cost, scope, schedule, and available resources
3. Conduct post-sprint review meetings/demo for management and applicable clients to elaborate on functionality that has been completed during that sprint
4. Identify all known issues and risks, as well as develop mitigation strategies where appropriate
5. Utilize the HDR product whenever it is appropriate including the Configuration Management Plan (CMP)
6. Conduct thorough testing to identify problems before a new product is deployed

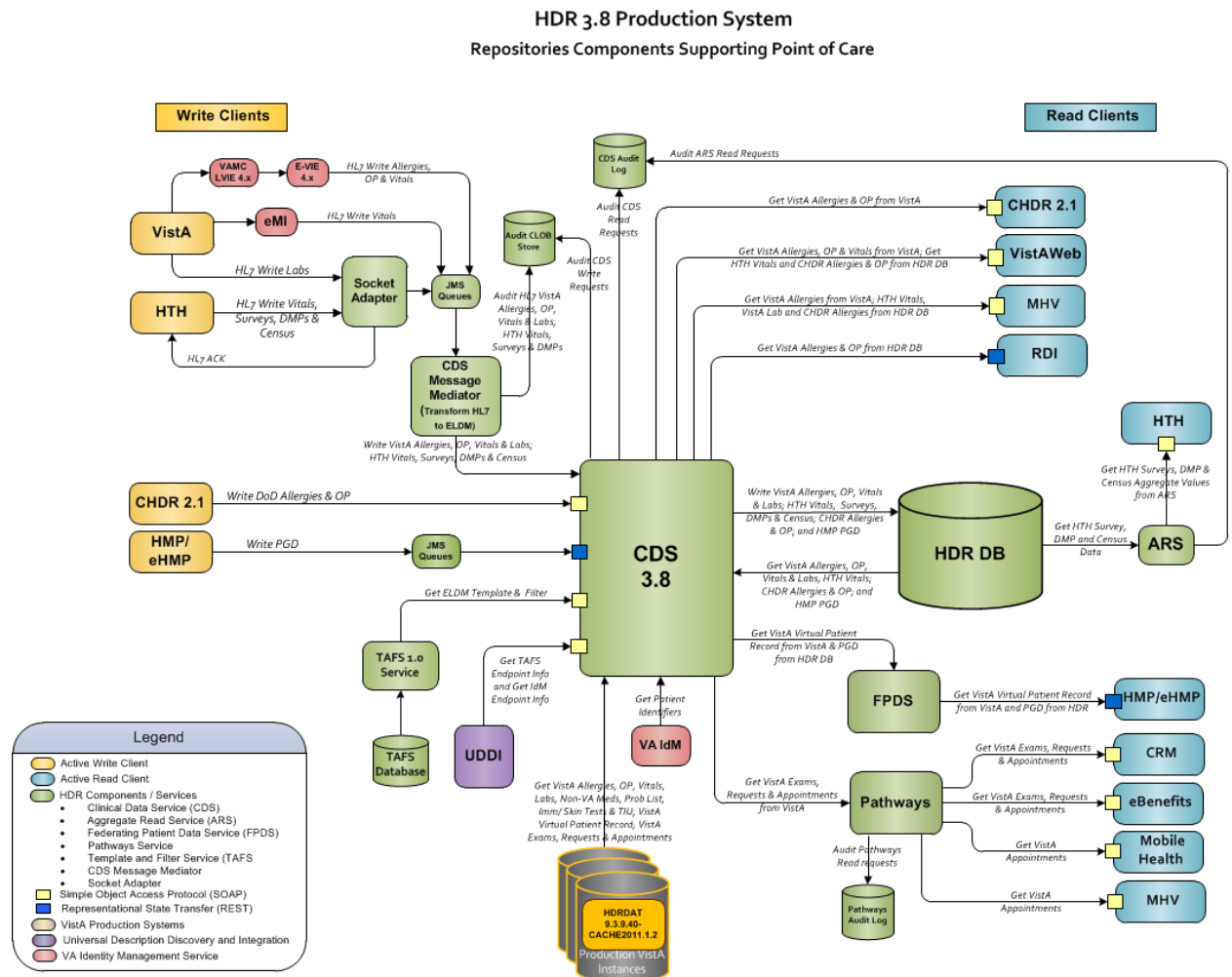
1.2. Scope

The scope of the HDR 3.8, Increment 12 project includes:

- Extension of Health Management Platform (HMP/eHMP) Virtual Patient Record (VPR) support capabilities to subscribe patients to VPR, cancel patient subscriptions to VPR, and retrieve object for subscribed patients.
- Extend Home Telehealth (HTH) Data Extracts to include a new interface to feed VHA Support Service Center (VSSC) and Denver Acquisition & Logistics Center (DALC).

The following diagram illustrates the interconnectivity of the HDR system demonstrating flow of data through CDS in support of Read and Write clients.

Figure 1: HDR 3.8 Proposed Production Flow Diagram.



1.3. Abbreviations, Acronyms, and Definitions

The abbreviations, acronyms, and definitions referenced in this document are provided in the “Repositories Abbreviations, Acronyms, and Definitions” section of the Technical Services Project Repository (TSPR) located at the following URL:

[REDACTED]

If you do not have VA network or TSPR access, contact the author of the document or your Repositories point of contact to request access.

1.4. References

The artifacts referenced in this document are located in the “Documentation Reference Library” in the Technical Services Project Repository (TSPR) at the following link:

[REDACTED]

If you do not have VA network or TSPR access, contact the author of the document or your Repositories point of contact to request access.

Referenced documents include the following:

- *HDR 3 8 Baseline Requirements Document*

2. Overall Description

2.1. Accessibility Specifications

CDS service does not provide a user interface.

2.2. Business Rules Specification

N/A

2.3. Design Constraints Specification

The Repositories program follows design constraints based on the enterprise VA Technical Reference Model and Standards Profile (TRM/SP), which is a guide for the use of tools and coding languages, including operating systems, database servers, and application servers. The Office of Enterprise Development (OED) ProPath process provides guidelines for software development. Any variations will be approved by appropriate waiver.

2.4. Disaster Recovery Specification

The Repositories program’s disaster recovery (DR) solution requires DR support at a geographically separate facility. Current Repositories production systems reside at the Austin Information Technology Center (AITC), with DR capability residing at the Hines Information

Technology Center (HITC). DR for VistA production systems is at the enterprise infrastructure level under Field Operations.

2.5. Documentation Specifications

N/A

2.6. Functional Specifications

The functional specifications for the HDR 3.8, Increment 12 release include:

- Extend HMP/eHMP support as follows:
 - Add a REST service interface to access the paging feature implemented in VPR API by the VistA team
 - Extend the HDRDAT stored procedure wrapper to call the VPR API that is deployed at the VAMC until all VistA systems have the most recent version of the VPR API
- Extend Home Telehealth (HTH) Data Extracts to include a new interface to feed VSSC and DALC.

2.7. Graphical User Interface (GUI) Specifications

Not applicable to the HDR project. HDR and CDS are backend systems and do not provide a GUI.

2.8. Multi-divisional Specifications

N/A

2.9. Performance Specifications

Performance specifications are delineated in client Service Level Agreements (SLA). For the current HDR 3.8 deliverable, there are no specific performance requirements. HDR gathers Performance and Load Testing benchmarks through extensive load testing prior to the final release. Performance times will match the current response times in production.

2.10. Quality Attributes Specification

Quality attributes, such as coding standards, naming conventions, class libraries, and maintenance utilities, as defined in the template, are outside the scope of this RSD.

2.11. Reliability Specifications

Repositories reliability requirements are conveyed in the Operations and Maintenance (O&M) Plan between the VA and the AITC. This artifact enumerates the capabilities that will be fulfilled

related to Repositories reliability, including system availability, failover, backup, and restoration requirements.

2.12. Scope Integration

N/A

2.13. Security Specifications

The Repositories program's security strategy is documented in the System Security Plan. Repositories is compliant with applicable VA security directives and guidelines defined by the National Institute of Standards and Technology (NIST), the Federal Information Security Management Act (FISMA), and the Security Management and Reporting Tool (SMART). HDR production hardware is housed within the AITC, which provides software and database security, as well as physical security. The AITC maintains a Continuous Monitoring Plan which allows for the review of key security controls for regular monitoring and proper reporting of security aspects. Repositories responds to and addresses security vulnerabilities as presented by the AITC and is current in security Plan of Action and Milestones (POAM). Password encryption is supported.

2.14. System Features

N/A

2.15. Usability Specifications

N/A

3. Applicable Standards

N/A

4. Interfaces

4.1. Communications Interfaces

N/A

4.2. Hardware Interfaces

The Austin Information Technology Center (AITC) is responsible for the connectivity to the firewall that connects to the Wide Area Network (WAN) for access to all VistA sites, overseen by the National Operational Service Center (NOSC).

4.3. Software Interfaces

N/A

4.4. User Interfaces

N/A

5. Legal, Copyright, and Other Notices

N/A

6. Purchased Components

N/A

6.1. Defect Source (TOP 5)

N/A

7. User Class Characteristics

N/A

8. Estimation

Estimates are derived by the Functional Analysts, Developers, Testers, and Database Analysts involved in the implementation of this project. The design, development, implementation, and release management of the proposed project will be managed using the Agile Scrum methodology.

9. Project Software Functional Size and Size-Based Effort and Duration Estimate

Item	A	B	C	D	E	Totals
Counted Function Points						
Estimated Scope Growth						
Estimated Size at Release						
Size-Based Effort Estimates				Labor Hours	Probability	
Low-Effort Estimate – Wh indicated probability, project will consume no more than:						
High-Effort Estimate – Wh indicated probability, project will consume no more than:						
Size-Based Duration Estimates				Labor Hours	Probability	
Low-Duration Estimate – Wh indicated probability, project will consume no more than:						
High-Duration Estimate -- Wh indicated probability, project will consume no more than:						

Attachment A. Reviews and Approval

This section contains the reviews and approval signatures for the *Health Data Repository 3.8 Acceptance Criteria Plan (ACP)*.

Peer Review: 09/11/2014

The signatures below indicate agreement and acceptance of the declarations contained in this document.

HDR Project Manager

09/12/2014
Date

HTH Program Manager

09/16/2014
Date

HMP/eHMP Project Manager

09/12/2014
Date

Repositories Program Manager; Integrated Project Team (IPT) Chair

09/12/2014
Date

Attachment B. Signature Verification

The Signature Verification section is used to verify and document the electronic signatures, concurrence, and approval of the *HDR 3.8 Acceptance Criteria Plan (ACP)*.

