Clinical Data Repository/ Health Data Repository (CHDR)

Release Notes

CHDR Version 2.1 Release

Increment 3

Document Version 1.0

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Revision History

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

Date	Description of Change	Author Information
10/24/2011	Add in information for VTS to section 2.	Kathy Stark
10/14/2011	Review suggested edits from peer review and accepted as appropriate.	Kathy Stark
10/12/2011	Accept changes from tech writer review. Prepare document for peer review.	Kathy Stark
10/12/2011	Technical Writer Review	Steven Claassen, Technical Writer
10/7/2011	Initial draft.	Katherine Stark, Technical Writer Keith Roberts, LEAD Developer

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1. Introduction

The Department of Defense (DoD) and the Department of Veterans Affairs (VA) in partnership, designed and implemented a Clinical Data Repository/Health Data Repository (CHDR) system that generates standards-based, computable, electronic health records that can be exchanged between the two agencies healthcare systems for patients marked as Active Dual Consumers (ADC). At DoD, medical records and patient health care histories are stored in the Clinical Data Repository (CDR), a component of the Armed Forces Health Longitudinal Technology Application (AHLTA). Similarly, the VA Health Data Repository (HDR) stores data from CHDR and the transactional clinical data from all 128 VistA applications for select clinical domains. CHDR is the link between the two repositories, and once the patient is marked "active" data exchange can begin. Data exchange does not occur until ADC activation.

Most patients are marked active by an automated process developed by DoD. At the VA, patients can be marked "active" manually using the VA's CHDR Administration Application Interface (CHDR Admin GUI). The GUI can also be used by local IT staff to view specific audit log transactions. Once the computed clinical data is exchanged it can be used by each agency's native healthcare system. At VA the integrated data can be viewed through VistAWeb while triggered Drug/Drug and/or Drug/Allergy alerts will manifest in the Computerized Patient Record System (CPRS).

1.1 CHDR 2.1 Release

The CHDR 2.1 VA Health Information Model (VHIM) release enables CHDR to move from Health Level Seven (HL7) messages to VA VHIM format for reads and writes of allergy and outpatient pharmacy data. CHDR is responsible for transforming HL7 messages received from DoD into the VHIM format, to send to and from Clinical Data Services (CDS). The release also includes minor enhancements to improve the CHDR Admin GUI already in production, and a Limited Look-back (LLB) feature, supporting the business need to limit the exchange of certain Outpatient Pharmacy data (inactive/cancelled/expired) exchanged between VA and DoD. The LLB feature is configurable, and the business has decided it will be 366 days back from the date the record was originally accessed or flagged. However, there is the flexibility to change this parameter should the VA business needs change. In addition to improving data interoperability and system response times in sending data between VA and DoD, other benefits of the Limited Look-back feature include:

- Reduces DoD transaction costs for medication records sent to Pharmacy Data Transaction Service (PDTS) for drug-drug and drug-allergy checking.
- Reduces traffic/volume of less clinically relevant outpatient pharmacy data exchanged.
- Reduces the amount of storage space required to hold the inactive/cancelled/expired data.
- Reduces the response time of applications displaying CHDR clinical patient data for Veterans with a long history of information.

1.2 Document Purpose and Audience

This document is intended as an explanation of the enhancements and defects addressed in this release. The audience includes clinical and administrative staff located at the VA medical centers using the CHDR functionality.

1.3 Related Documentation

The following documents provide additional end-user information for CHDR.

- *CHDR User Guide*
- Online Help – accessed from the CHDR Admin GUI

Documents are located on the CHDR TSPR: http://vhaispwww3/warboard/anotebk.asp?proj=1463 and the CHDR VA Virtual Document Library (VDL): http://www.va.gov/vdl/application.asp?appid=155.

2. CHDR 2.1 Service Enhancements or Fixes

2.1 CHDR System

Many of the CHDR system design improvements work in the background to deliver improved information sharing of outpatient clinical data for ADC patients between DoD and VA.

The following list includes the system enhancements and defects addressed for the CHDR 2.1 system.

Request ID	Summary
HDS00020134	Upgrade Person Service Lookup (PSL) from 4.0.4.8 to v4.0.5.0.1.
HDS00020195	Upgrade CAIP to v3.0.2.
HDS00020196	Configuration changes to NDS/CAIP.
HDS00020204	Upgrade WebLogic from 10.3.0 to v10.3.4.
HDS00020263	Upgrade CDS to v3.1.0.7; client and common libraries.
HDS00020267	Upgrade CHDR to log4j v1.2.16.
HDS00020269	Upgrade CHDR Spring Framework to v3.0.5.
HDS00020273	Upgrade CHDR Spring Web Flow to v2.2.1 of.
HDS00020333	Upgrade CHDR from Standards and Terminology Services (STS) to VETS Translation Services (VTS) version 2.0.
HDS00019473	WebLogic integration with the multi-data source to support failover.
HDS00019596 HDS00020207	Change CHDR start date for CDS read request to a configurable parameter to support the Limited Look-back feature.
HDS00020023	Vulnerability scan report updated.
HDS00020178 HDS00020203	New business rule implemented for VA CHDR 5-digit site ID - fix Z03 message within a Z06 message to keep the site ID from being dropped from the message.
HDS00020192	VHIM read/write to CDS. CHDR will no longer use the HDR II Socket Facade.
HDS00020193	To write to CDS and to receive an acknowledgement, but CHDR will ignore the acknowledgment response as this functionality will not be available in the future.
HDS00020198	The CHDR message header for MPI messages will be changed to have a P for production and eliminate the current T for test.
HDS00020199	CHDR truncates unique ID to 20 characters sent to CDS.
HDS00020200	Fix schematron validation rule for ORC-2.5.1.
HDS00020202	Make the CHDR start date for the CDS read request configurable.
HDS00020206	Eliminate audit of the clinical messages sent to HDR.
HDS00020251	Replace first name assertion with business error message, as first name is optional in MPI/VistA.
HDS00020379	Provide Patient Lookup Search page when a user logs in to the CHDR Admin GUI for the first time.
HDS00020422	Add debug logging of synchronous services.

Request ID	Summary
HDS00020429	Change fault detail message for VTS 2.0 exceptions to improve troubleshooting with the VETS Translation Services (VTS) team.
HDS00020444	Repair 900 Error from occurring when requesting an allergy from CDS.

CHDR is the consuming product taking VETS Translation Services (VTS) version 2.0 into production. VTS is maintained by the VHA Enterprise Terminology Services (VETS) team and is a remote terminology translation service that is used by CHDR for translating VA proprietary terminology codes known as VA Unique Identifiers (VUIDs). VTS queries an Oracle database to perform queries and translations for CHDR data to comply with a business rule need to perform the terminology translations. The VTS upgrade to 2.0 provides:

- Improved order/drug-allergy checks across VA, for data exchanged between VA and DoD, and increased flexibility to manage legacy allergy data.
- Improved mediation/translation of one or many DoD mediation codes to a single VUID.

Note: Not all mappings have been fixed. Due to the difficulty in comprehending the way physician's document allergies, it is impossible to map all too current standard terms.

2.2 CHDR Admin GUI

The following minor enhancements were made to the CHDR Admin GUI for the CHDR 2.1 release. These changes will be transparent and GUI will function and look the same for end users.

Request ID	Summary
HDS00020019	Fixed the patient lookup field to clear upon refresh of field or screen.
HDS00020191	GUI upgrade to Spring Webflow to improve code maintainability and reusability.
HDS00020201	Change the "timeout" message displayed in the CHDR Admin GUI to read: "Patient ADC Status. Processing Temporarily Delayed. The request to change the status of "patient name" to INACTIVE was sent to Department of Defense. The response from Department of Defense (DoD) has not been received. The system will process this status change request as soon as the response is received from DoD. Please continue with other activities and check back later for the outcome of the request."
HDS00020239	Removed portrait feature from the PSL capability in the CHDR Admin GUI.