

Nationwide Health Information Network

Adapter Version 5.0.1



Release Notes Version 1.3

Created June 2012 (Updated for November 2012)

**Department of Veterans Affairs
Office of Information and Technology
Product Development**

Revision History

Date	Version	Description of Change	Author
08/20/2012	0.10/1.0	Updated CONNECT references to 3.2.2.1. This version is FINAL (no signatures required; see PMP).	
10/15-31/2012	1.1	<p>D1 set up for Adapter 5.0.1. Confirmed that the two graphics used are current for 5.0.1. Confirmed and read USSs. Read RTM. Made section 3 (At-a-Glance Functionalities) 508 compliant. Outlined topics from 20121002 RTM. Also:</p> <ul style="list-style-type: none"> 20121017, 1022 emailed re: upd of HIE section with go-live dates for TBD entries. provided some VLER docs, still need authoritative source of HIE partner go-live dates. 20121029 met with to review notes for clarification. Incorporated notes from . 20121031 Added CCR 760 information. Updated glossary with terms and definitions relevant to this version relnotes. 	
11/05-09/2012	1.2	<p>PR: Implemented comments from ,</p> <p>reviewed with no additional comments.</p> <p>Also in this draft: applied Appendix styles and multi-level lists. Changed format and content of NwHIN HIE Partners table (Appendix B) based upon current information from</p> <p>This version is ready for FR.</p>	
11/13-15/2012	1.3	<p>FR (courtesy copy): removed 'DRAFT' watermark. Implemented suggestions from . approved content 'as-is'. Upon input from , reinstated table of existing HIE partners and renamed previous table to 'New NwHIN HIE Partners'. Implemented corrections from on go-live dates. Ran PAW for 508 compliance. This version is FINAL.</p> <p>Note: Per PMP, no FR or signatures required.</p>	

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1 INTRODUCTION

This document contains the Department of Veterans Affairs (VA) Nationwide Health Information Network (NwHIN) Adapter Release Notes—an overview of new features and functions developed for the Production environment of the current software release: NwHIN Gateway Adapter (Adapter) version 5.0.1. This document also captures technical updates made to the software application since the release of version 5.0.

1.1 Audience

The content of these release notes have been written to apply to two reader-audiences: the Adapter Business Stakeholders and staff of the Austin Information Technology Center (AITC).

1.2 Project Description

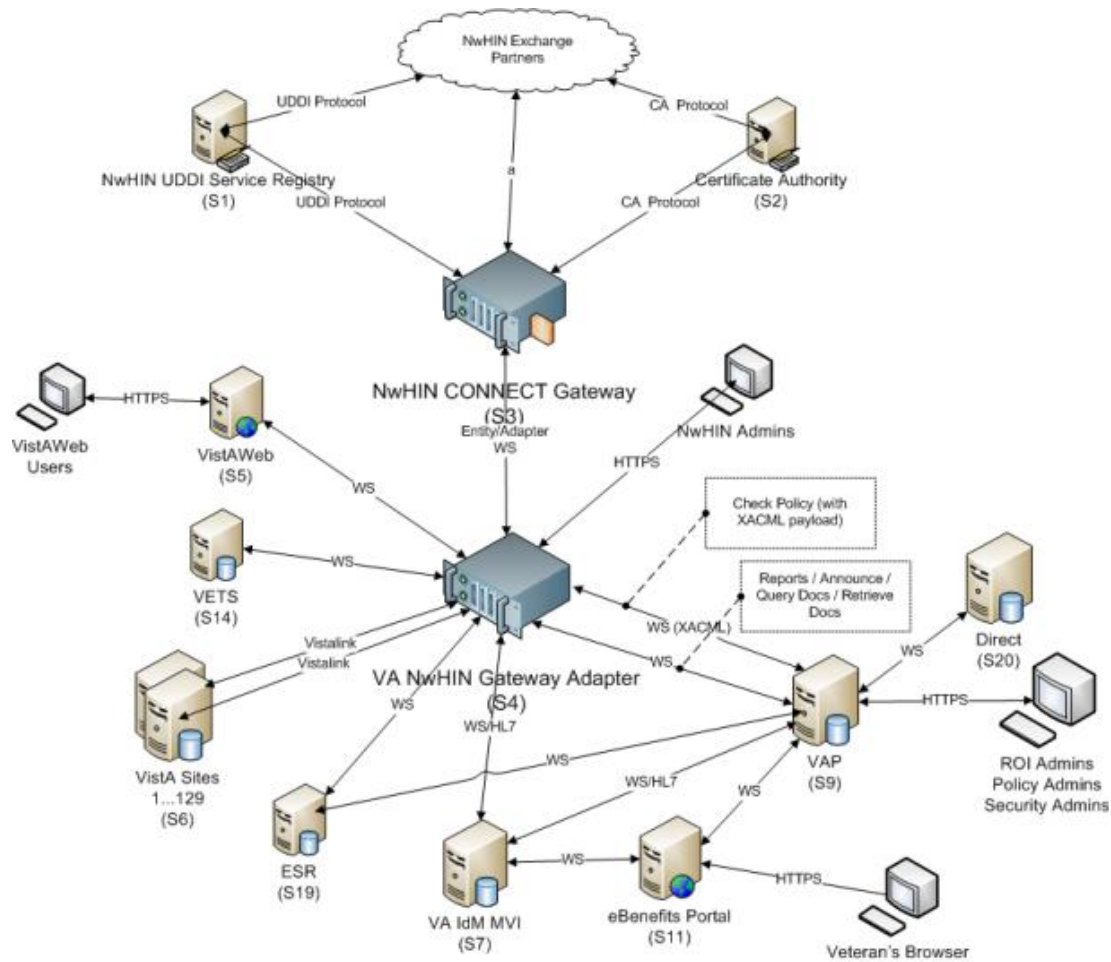
NwHIN is the initiative for the exchange of healthcare information developed under the auspices of the United States Office of the National Coordinator for Health Information Technology (ONCHIT). ONCHIT has been facilitating development of NwHIN technology and standards to provide a secure, nationwide, interoperable health information infrastructure that connects health providers, consumers and others involved in supporting health and healthcare, serving our nation's military service Veteran population. By consent of the Veterans, the NwHIN enables bi-directional exchange and sharing of VA and non-VA health records with partnering entities.

The VA NwHIN Adapter project is a HealthVet-Veterans Health Information Systems and Technology Architecture (VistA) application that acts as a gateway between the VA and other health information exchanges (HIE) to share Veteran patient clinical records. The Adapter is deployed as a single, national instance at AITC. Payloads are standards-based Clinical Document Architecture (CDA) Extensible Markup Language (XML) documents. VistA data is retrieved through the use of VistALink-mediated Remote Procedure Calls (RPCs), and the clinical data retrieved by the Adapter is displayed to users through VistAWeb.

Note: The Adapter is a read-only service; it does not create a clinical repository with the data it mediates.

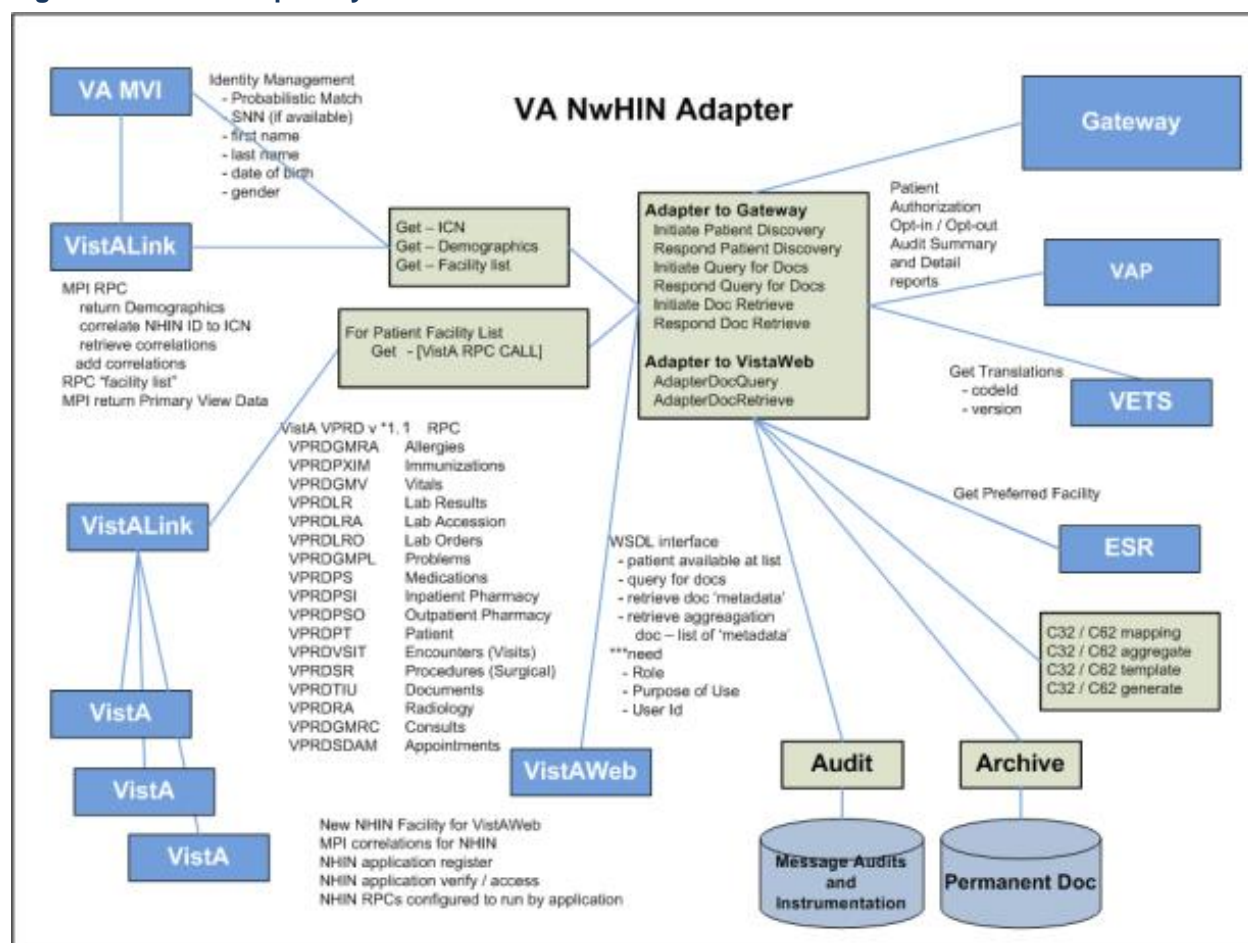
The Adapter interacts with all services up to the VA Gateway. The following graphic provides a high-level overview of interactions between the software applications that make up the Adapter system.

Figure 1: NwHIN Adapter High Level Design with System Components



These applications work together to provide a seamless and secure flow of information between the Adapter and all other NwHIN sub-systems with which it interacts.

Figure 2: NwHIN Adapter System Flow and Interactions



Note: The Adapter 5.0.1 release supports Virtual Patient Record (VPR) Remote Procedure Call (RPC) version 1.1

The VA Adapter Gateway communicates directly with the Veterans Authorization and Preferences (VAP) application for authorization since the orchestration in the gateway has the call to the policy component of the system. VAP communicates with the Adapter for the publishing of Veteran preference changes and the receipt of HIE subscriptions to Veteran preferences.

Note: VistA Web is the VA front end that VA clinicians use to consume NwHIN documents. The Adapter 5.0.1 release supports VistAWeb versions 16.0.

The Adapter is an enterprise application designed to provide standards-based exchange of VA medical data with external Federal agencies such as the United States Department of Defense (DoD) and the Social Security Administration (SSA), as well as with public sector Health Information Exchanges (HIEs). The Adapter supports multi-divisional capabilities by enabling:

- VA treatment facilities to perform clinical care activities by receiving data about the medical treatment provided to the patient outside the VA at NwHIN partner organizations.
- External NwHIN partner organizations to perform clinical care activities by receiving data about the treatment provided to the patient at the VA.
- Veterans to receive continuity of care by enabling their VA and non-VA medical information to travel with them as they move geographically in the U.S.

The current phase of Adapter development is a patch release referred to as Adapter 5.0.1. The content of these release notes focuses specifically upon areas of change required to support this patch release.

1.3 Referenced Documents

The following documents are referenced to facilitate a greater understanding of the changes developed for the NwHIN Adapter 5.0.1 release. Documents in the table below can be accessed from the [_____](#)

Table 1: Adapter 5.0.1 Reference Documents

Document Title	Notebook Section/Other Location	Post Date
NwHIN Enhancements Request #20100102 Business Requirements Document	ProPath Home Page – Business Requirements Document	July 2011
NwHIN Adapter 5.0.1 Requirements Traceability Matrix	Requirements Elaboration – Requirements Traceability Matrix	October 2012
NwHIN Adapter 5.0.1 User Stories (see below for full list of Adapter 5.0.1 User Stories)	Requirements Elaboration – Use Case Specifications	October 2012
Master HITSP C32 Data Mapping (for Adapter 5.0.1)	Product Design – Data Definition Document	October 2012
Master VLER C62 Data Mapping	Product Design – Data Definition Document	October 2012
VA C32/C62 Data Domain Rules Document	Product Design – Data Definition Document	October 2012
NwHIN Adapter 5.0.1 Test Defect Log	Product Build – System Test Defect Log	November 2012

The following Adapter User Stories were created for or modified by Adapter 5.0.1 development.

- US – NWHIN CR 323: Support the Addition of New Partners
- US – NHIN CCR 585: Create a Fully Populated VA C32
- US – NHIN CCR 682: C32 Update to Medication Status Section
- US – NHIN CCR 683: C32 Update to Immunization Module
- US – NHIN CCR 700: Update Business Rules for the C32 Modules
- US – NHIN CCR 710: C32 Update to Medication Fulfillment History Information Section
- US – NHIN CCR 711: C32 Updates to Procedures Narrative Section for Provider Element
- US – NHIN CCR 732: Include 201306 response for errors in AdapterGatewayPatientDiscovery component response
- US – NHIN CCR 760: Handle Data Errors Related to VPR Data Returned for Problems

Finally, the following external references are valuable toward an understanding of the Adapter system.

- [HITSP C80-Clinical Document and Messaging Terminology](#)
- [HITSP C83 CDA Content Modules Component](#)
- 2010 NHIN Final Production Specifications: [HHS Federal Health Architecture \(FHA\) NHIN Resources web site](#)

- VHA Section 508 Office (19F) Health Data & Informatics (HDI) Section 508 Checklist for Web-based Internet Information and Applications: _____

2 WHAT'S NEW FOR ADAPTER 5.0.1?

The Nationwide Health Information Network (NwHIN) Adapter is responsible for exchanging patient information using Health Information Technology Standards Panel (HITSP) standards, Health Level Seven (HL7) standards and integrating the Healthcare Enterprise Technical Framework standards. The main objective of Adapter 5.0.1 development is to continue to serve the needs of our nation's Veterans and provide greater continuity of care.

Below, Adapter 5.0.1 development is separated into two sections.

- **New Features and Functionality:** an overview of new Adapter development
- **Enhancements to Existing Capabilities:** an overview of development on existing Adapter functionality

These sections describe the changes made in Adapter 5.0.1 as a maintenance release to Adapter 5.0.

Note: For more detailed information on current features and functionalities, see previous versions of the Adapter Release Notes (archived on the Adapter TSPR) and the section in this document entitled [Adapter Functionality At-a-Glance](#).

2.1 New Features and Functionality

Adapter 5.0.1 does not contain new features or functions because it is strictly a maintenance release. The focus of new feature and functionality development for Adapter 5.0 has been to support new HIE partners.

2.1.1 New Health Information Exchange Partnerships

The following NwHIN HIE Partners have been assigned a station number, confidence tested, and are exchanging through the Adapter in Production.

Table 2: Newly Added HIE Partners (Production)

NwHIN HIE Partner	Station#	Expected Go-Live Date
Redwood MedNet	200NRM	December 23, 2012
Pensacola/Cogon	200NFL	December 19, 2012
East Tennessee Health Information Partnership for Tennessee (etHIP TN)	200NTN	December 19, 2012
San Diego	200NUC	December 19, 2012

Note: For a list of existing NwHIN HIE Partners, see [Existing NwHIN HIE Partners](#).

2.2 Enhancements to Existing Capabilities

Adapter 5.0.1 development enhancements have focused on the following.

- Create a test instance with fully populated VA C32 clinical domains
- Update business rules for the VA C32 clinical domains
- Update VA C32 clinical domains to be compliant with the HITSP C83 specifications
- Make middle name data available to Patient Discovery Audit Report

- Eliminate unnecessary Patient Announce errors
- Handle pregnancy data correctly in Problems/Conditions section

2.2.1 Created a Test Instance with Fully Populated VA C32 Clinical Domains

Previously, a single test instance with all VA C32 clinical domains populated did not exist in the Adapter SQA test environment. So when stakeholders and HIE partners wanted to confirm changes to or troubleshoot the display of VA C32 clinical domains, they had to view a number of test instances to do so. With Adapter 5.0.1, a single, fully-populated instance has been created to simplify future troubleshooting of VA C32 clinical domain capabilities with external HIE partners in the Adapter SQA environment.

2.2.2 Business Rules Updated for the VA C32 Clinical Domains

Business rules provide text that defines narrative information throughout the VA C32 clinical domains. With Adapter 5.0.1, these business rules have been edited with input from the Data Mapping Workgroup for the purpose of clarifying narrative display text.

Note: With Adapter 5.0.1, no changes were applied to Data Limits of the Business Rules.

2.2.3 VA C32 Clinical Domains Updated to Comply with HITSP C83 Specifications

The Healthcare Information Technology Standards Panel (HITSP) Clinical Data Architecture (CDA) Content Modules Component defines the library of components that may be used by CDA-based constructs developed in standards-based exchanges like the NwHIN. With the Adapter 5.0.1 maintenance release, the following clinical domains of the VA C32 have been updated to provide compliance with the HITSP C83 specifications, improving the ability of NwHIN HIE partners to consume VA C32 data.

Table 3: VA C32 Updates

Clinical Domain	Description	Adapter 5.0.1 Changes
Medications	Contains patient medications (outpatient and self-reported) information from all VA treatment facilities for which the dispense date was within the last 15 months. Only medications that have an active or non-active prescription status are displayed.	<ul style="list-style-type: none"> ▪ Medication Status section: Corrected reference ID to point to the valid C83 template. ▪ Fulfillment History section: Updated the reference ID with a valid C83 setting. <p>Note: With Adapter 5.0.1, this section displays as blank when no prescription data is available.</p>
Immunizations	Contains information about a patient's immunizations from all VA treatment facilities. Only administered (i.e., not refused) immunizations are included in this field.	Added a reference ID that enables the display of immunization reaction data.

Clinical Domain	Description	Adapter 5.0.1 Changes
Procedures	Provides information about the 25 most recent historical (completed) surgical and radiological procedures for the patient from all VA treatment facilities for which the procedure date was within the last 12 months and up to 25 maximum.	Corrected a reference pointer that was displaying multiple instances of this clinical domain's Provider value.

2.2.4 Make Middle Name Data Available to Patient Discovery Audit Report

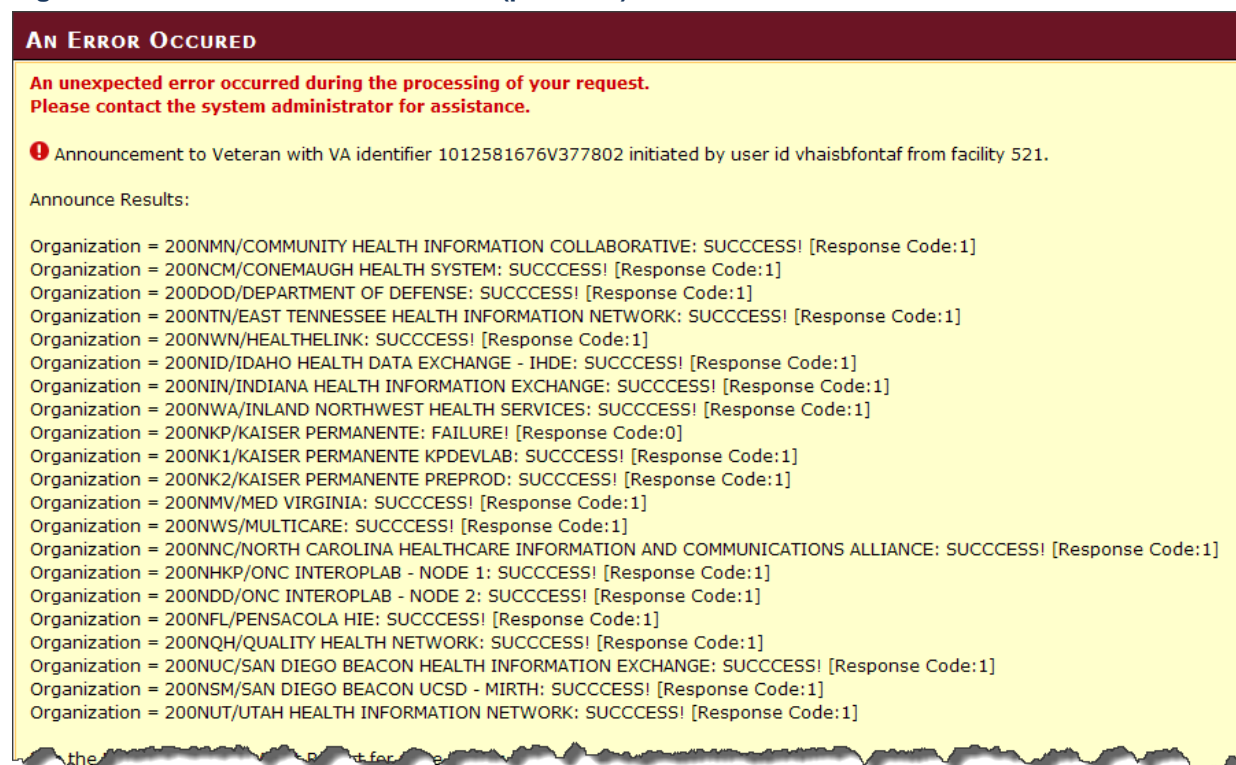
Previously, Adapter's audit records did not include middle name data for VHA patient or partner patients even when it was provided by MVI. With Adapter 5.0.1, the Detail field of the Adapter audit records includes a middle name field along with first and last name demographic traits already provided. With this, VAP can now produce Patient Discovery Audit Reports that include patient middle name information, a critical piece of information with which HC IdM analyzes and troubleshoots unsuccessful Patient Discoveries.

Note: The format of the middle name field is the same as that sent from MVI: last = Smith, middle = Jacob, first = John. If no middle name data is provided, the middle name field displays as blank: last = Smith, middle = , first = John.

2.2.5 Unnecessary Patient Announce Errors Eliminated

Previously, when a VAP user launched a manual patient announcement, the VAP Announce Patient interface displayed an error message that was not intended for general users of the system.

Figure 3: VAP Announce Patient Error (previous)



With Adapter 5.0.1, a code change has been made that eliminates this error message and ensures VAP users that the Patient Announce was successfully initiated to the Adapter. This Patient Announce is viewable in VAP's Patient Discovery Audit Report.

2.2.6 Pregnancy Data Handled Correctly in Problems/Conditions Section

Within the clinical domain of Problem/Condition, if a patient had pregnancy listed in their VA C32, Adapter threw an error in the VAP user interface. With Adapter 5.0.1, a code change includes 'text' as an expected data type for the value of 'pregnancy' in the Problems/Conditions clinical domain, eliminating the possibility of this error.

Figure 4: Display of Pregnancy Data under Problems/Conditions Section of VAP Report

Department of Veterans Affairs
Summarization of Episode Note

Created On: November 5, 2012

Patient: NWHINFOUR NWHINZZZTESTPATIENT **Patient ID:** 1012660383V001469^^^&2.16.840.1.113883.4.349.1&ISO
1400 Test Street
HELENA, AL, 35080
tel:+1-205-111-4444 Home


Birthdate: January 4, 1984 **Sex:** F

Language(s): • English

Source: Department of Veterans Affairs

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[Vital Signs](#)

History of Encounters

 **NOTE:** Click on the Encounter Comments field to display/hide additional data where applicable

Date/Time - Count (2)	Encounter Type	Encounter Comments	Provider
Aug 15, 2012	--	IHE Encounter Template Text not used by VA	--
Feb 7, 2012	--	IHE Encounter Template Text not used by VA	TESTER,JOHN G

Problems/Conditions

Problems - Count (5)	Status	Problem Code	Date of Onset	Provider	Source
Weakness of limb (SCT 30977400)	completed	728.87	--	--	MARTINSBURG VAMC
Alcohol-induced organic mental dis	completed	291.89	Dec 24, 2011	--	MARTINSBURG VAMC
Depression (ICD-9-CM 311.)	completed	311.	Oct 14, 2011	--	CHEYENNE HDR SQA
Bipolar Disorder (ICD-9-CM 296.7)	completed	296.7	Oct 16, 2011	--	CHEYENNE HDR SQA
Pregnancy	completed	V22.2	--	--	MARTINSBURG VAMC

Vital Signs

Date - Count	TEMP	PULSE	RESP	HT - Lying	Wt	Pox	PCF	Source

2.3 Defects and Known Anomalies

A complete listing of Adapter 5.0.1 testing defects and anomalies can be found in the NwHIN Adapter 5.0.1 Test Defect Log available from the [NwHIN Adapter 5.0.1 Test Defect Log](#)

Appendix A: ADAPTER FUNCTIONALITY AT-A-GLANCE

This section provides at-a-glance comparisons between previously existing functionality and functionality that is new for the Adapter 5.0.1 release.

Table 4: Interfaces Internal to the VA

New Internal Interfaces	Existing Internal Interfaces
None	<ul style="list-style-type: none">▪▪▪

Table 5: Interfaces External to the VA

New External Interfaces	Existing External Interfaces
None	

Table 6: NwHIN Pilot Sites

New Pilot Sites	Existing Pilot Sites
None	<ul style="list-style-type: none">▪ San Diego: Kaiser Permanente (KP)▪ U. S. Government: Department of Defense (DoD)▪ Virginia: MedVirginia▪ Washington: Spokane VAMC, Inland Northwest Health Services (INHS)▪ North Carolina: Asheville VAMC, West North Carolina (WNC) Health Network, North Carolina Healthcare Information and Communication Association (NCHICA)▪ Washington: Puget Sound MultiCare▪ Buffalo: Western New York Health-E Link▪ Minnesota: Minnesota/Twin Ports/CHIC▪ Utah: Grand Junction (CO) VAMC, Utah Health Information Network▪ South Carolina: Charleston VAMC, South Carolina Health Information Exchange (SCHIEx)▪ U. S. Government: Social Security Administration (SSA)▪ Altoona: Conemaugh Health System

Table 7: Key Adapter Functionality

New Functionality	Existing Functionality
None	<ul style="list-style-type: none"> ▪ Interface with VAP application for PolicyCheck decisions ▪ Support VAP Reports ▪ Support VAP Report sorting requirements ▪ WebLogic secure interface between Adapter and VistAWeb ▪ Archive each external HITSP C32 summary document received by VA ▪ Generate 508-compliant VAP reports: Accounting of Disclosure Report, Opt-In/Opt-Out Audit Report, Received NwHIN Documents Report ▪ Ability to search and sort by patient through accounting of disclosures ▪ Upon successful electronic patient opt-in action, append an identifier to the patient information ▪ Support NwHIN partner multiple assigning authority (MAA) ▪ Integrate with VETS ▪ Upgrade from NHIN RPC to VPR RPC enables handling the exchange of C62 document data as well as C32 document data ▪ Retirement of the Adapter Batch-Announce Utility ▪ Retirement of Adapter CPP and associated reports ▪ Support the new patient discovery exchanges with the Social Security Administration (SSA) via VAP ▪ Upgrade the functions of VAP reports. The new auditing functions now: <ul style="list-style-type: none"> ○ Enable storage of the VistaWeb username, facility and role in audit ○ Enable storage of the patient disclosure details (user name, role) in audit ○ Enable adding new User Roles to auditManager responses ▪ Optimize C32 generation and cleanup C32/C62

A.1. Data Exchange

The Adapter system has and continues to support the following HITSP data exchanges.

Table 8: Existing Data Exchanges

C32 Clinical Domains	C62 Clinical Domains
<ul style="list-style-type: none">▪ Module #1-Personal Information▪ Module #2-Language Spoken▪ Module #3-Support (Contact Info)▪ Module #4-Healthcare Provider▪ Module #6-Allergy/Drug Sensitivities▪ Module #7-Conditions/Problems▪ Module #8-Medications▪ Module #10-Information Source (document level)▪ Module #13-Immunizations▪ Module #14-Vital Sign▪ Module #15-Results (Chemistry & Hematology)▪ Module #16-Encounters▪ Module #17-Procedures	<ul style="list-style-type: none">▪ Consults/Referrals▪ Discharge Summaries▪ Procedure Notes▪ History and Physicals▪ Results of Diagnostic Studies<ul style="list-style-type: none">○ Cardiology Studies○ Obstetrical Studies○ Gastroenterology Endoscopy Studies○ Pulmonary Studies○ Ophthalmology/Optomety Studies○ Neuromuscular Electrophysiology Studies○ Miscellaneous Studies○ Study Report▪ Radiology Studies▪ Pathology Studies▪ Surgery Reports

Note: Adapter version 5.0.1 does not deliver any new C32 or C62 clinical domains.

A.2. Security Issues/Waivers

The following are existing security issues/waivers that apply to the Adapter system.

- Request for Approval for Waiver/Compensating Control for VA 6500 Handbook, Information Security Program (Program Office/Administration) for [CDCO > OI > VA NHIN Gateway Adaptor](#) - VA Nationwide Health Information Network (NwHIN) Gateway Adapter.

The following are new security issues/waivers that apply to the Adapter system.

- Public Law 104-191, "Health Insurance Portability and Accountability Act (HIPAA) of 1996," August 21, 1996.
- FIPS 140-2, "Security Requirements for Cryptographic Modules," May 25, 2001.
- CJCSI 6510.01D, "Information Assurance and Computer Network Defense (CND)," June 15, 2004.
- Military Health System (MHS) IA Policy Guidance Manual, March 5, 2004.

Appendix B: NWHIN HIE PARTNERS

In the sections that follow, we provide listings of both existing and new NWHIN HIE partners.

B.1. Existing NWHIN HIE Partners

The following table lists existing NWHIN Health Information Exchange (HIE) partners.

Note: Date information in the table below is provided in the format YYYYMM, as in 201212 (December 2012).

Table 9: Existing NWHIN HIE Partners (in Production)

HIE Partner	Station	Go-live Date
Altoona PA: Conemaugh Health System	22NCM	March 2012
Buffalo NY: Western New York Health-E Link	200NWN	September 2011
Indianapolis IN: Indiana Health Information Exchange	200NIN	August 2011
Minnesota: Minnesota/Twin Ports/CHIC	200NMN	September 2011
North Carolina: Asheville VAMC, West North Carolina (WNC) Health Network, North Carolina Healthcare Information and Communication Association (NCHICA)	200NNC	March 2011
San Diego CA: Kaiser Permanente	200NKP	December 2009
San Diego CA: San Diego Beacon Health Information Exchange	200NUC	February 2012
South Carolina: Charleston VAMC, South Carolina Health Information Exchange (SCHIEx)	200NSC	September 2011
U.S. Government: Department of Defense	200DOD	Q1 2010
U.S. Government: Social Security Administration (SSA)	200NSS	September 2012
Utah: Grand Junction (CO) VAMC, Utah Health Information Network (UHIN)	200NUT	September 2011
Virginia: MedVirginia	200NMV	September 2010
Washington: Puget Sound MultiCare	200NWS	September 2011
Washington: Spokane VAMC, Inland Northwest Health Services (INHS)	200NWA	March 2011

B.2. New NWHIN HIE Partners

The following table lists the status of new NWHIN Health Information Exchange (HIE) partners.

Note: Most of the date information in the table below is provided in the format YYYYMM, as in 201212 (December 2012). The Anticipated Production Release Date is in the format YYYYMMDD, as in 20121221 (December 21, 2012).

Table 10: Status of New NwHIN HIE Partners (as of 20121109)

HIE Partner	Station	Testing Start Date	Testing End Date	Anticipated Production Release
East Tennessee Health Information Partnership for Tennessee (etHIP TN)	200NTN	201211	201211	20121119
Grand Junction, Colorado Quality Health Network (QHN)	200NQH	201205	201205	On Hold
Hawaii	200HHI	TBD	TBD	TBD
Idaho Health Information Exchange (IDE)	200NID	201210	201211	TBD
Medical University of South Carolina (MUSC)	200MSC	201212	201212	20130115
New Mexico	200NNX	TBD	TBD	TBD
North Carolina HIE	200NCH	201301	201301	TBD
North Texas	200NNX	TBD	TBD	TBD
Pensacola/Cogon	200NFL	201210	201211	20121119
Redwood MedNet	200NRM	201212	201212	20121223
San Diego	200NUC	201209	201211	20121119
San Antonio	200NSA	201301	201302	201302
Sentara Health	TBD	TBD	TBD	TBD

Appendix C: GLOSSARY TERMS AND ACRONYMS

In this section, we provide a listing of terms and acronyms that are common to the NwHIN Adapter product.

C.1. List of Terms

The following table provides terms (and their definitions) commonly used when discussing NwHIN Adapter functionality.

Table 11: Adapter Glossary of Terms

Terms	Definitions
Adapter (Gateway Adapter)	The software component that exchanges patient health data by interfacing with the VA Gateway and the VA VistA data sources using standards-based messaging (NwHIN Interface Specifications) and standards-based data content (HITSP Document Constructs).
VA Gateway	The software component that exchanges patient health data with VA-approved NwHIN partners, via the Internet, using standards-based messaging (NwHIN Interface Specifications) and standards-based data content (HITSP Document Constructs).
Beacon	A Health and Human Services (HHS) branded program that invests in communities that have a demonstrated level of EHR capability to elevate them to full capacity of electronic HIE exchange and demonstrate the capability and benefits of this approach on a large scale.
Continuity of Care Document (CCD)	An XML-based markup standard that specifies the encoding, structure and semantics of a patient summary clinical document for exchange electronically. The CCD specification is a constraint on the HL7 Clinical Document Architecture (CDA) standard. It contains U.S.-specific requirements; so its use is limited to the U.S. The U.S. HITSP has selected the CCD as one of its standards.
Deterministic matching	Deterministic matching requires an exact match for each of the traits used; for example there must be an exact match on the patient's first, middle, and last names. This was the method used to correlate identities for a health record for the VLER 1A pilot.
Enrollment Service Redesign (ESR)	ESR is a web service that tracks information pertaining to a Veteran. The ESR exposes a Web Service interface that Adapter will use to access and retrieve the 'Preferred Facility' that will be stored in the Audit table and provided to VAP when Audit Summary and Detail Reports are requested from Adapter.
Health Information Exchange (HIE)	Entity that enables the movement of health-related data among entities within a state, a region, or a non-jurisdictional participant group, which might include a "classic" regional health information organizations at regional and state levels, integrated delivery systems and health plans, or health data banks that support health information exchange.

Terms	Definitions
Health Information Technology Standards Panel (HITSP)	A cooperative partnership between the public and private sectors. HITSP was formed for the purpose of harmonizing and integrating standards that will meet clinical and business needs for sharing information among organizations and systems.
Health Level Seven (HL7)	HL7 is one of the American National Standards Institute (ANSI) accredited Standards Developing Organizations (SDO) operating in the healthcare arena. It is an interoperability specification for transactions produced and received by computer systems.
Member	Any person to whom the VA provides medical services.
Multiple Assigning Authorities (MAA)	A condition that occurs when a patient record correlates to more than one identity within the same community of HIE partners.
VA MVI	Provides access to the Master Patient Index (MPI) at the VA. This is the subsystem that provides the NwHIN Adapter with patient demographics and the patients' ICN (Integration Control Numbers). The MPI is the authoritative source for the ICN and the following five identity fields: Name (all components), SSN, Date of Birth, Gender, Mother's Maiden Name, and the correlated domains (treating facilities/systems of interest) that are known by that ICN.
NwHIN CONNECT Gateway (S2)	A web service that provides the NwHIN Adapter with the capability to connect to receive information from providers who are participants in the NwHIN. Exposes a set of standard NwHIN services that are accessed by partners in the NwHIN; and is also responsible for sending (and receiving) data to the NwHIN on behalf of the Adapter. Exposes services (Entity Services) to Adapter for requesting data from NwHIN partners.
Patient	The subject of an electronic health record. Does not imply any legal constructs such as Patient-Provider legal relationship or other semantics.
Probabilistic matching	A statistically based method for identifying matches that allows one to use informational content of the data to identify matches. It does not require an "exact" match on all criteria (as is required with deterministic matching). This is the method used to correlate identities for a health record for the VLER 1Bii pilot (Adapter v3.1).
Service Oriented Architecture (SOA)	SOA is an architecture approach that packages functionality as interoperable, loosely-coupled units, or services, made accessible over a network and communicating by passing data independent of operating system or programming language.
Standards & Terminology Services (STS)	Develops and implements authoritative clinical and administrative data standards across all VHA sites. STS enables the interoperability and exchange of standardized and computable information among VA facilities, VistA 1.5/2.0 Applications and Services, and with government and private health care partners.

Terms	Definitions
Standards & Terminology Services Mapset	A collection of map entries with associated metadata standardized for use by STS.
VA Gateway	The software component that exchanges patient health data with VA-approved NwHIN partners, via the Internet, using standards-based messaging (NwHIN Interface Specifications) and standards-based data content (HITSP Document Constructs).
Veterans Authorization and Preferences (VAP)	<p>The application used for NwHIN Adapter authorization. VAP communicates with the Adapter to publish the veteran preference changes and the receipt of HIE subscriptions to veteran preferences.</p> <p>Provides the NwHIN Adapter with the capability to verify a VA patient's preference to opt in or opt out. Verifies if the patient's preference is either "Opt In" or "Opt Out" and allows the patient to update and change their preference.</p> <p>VAP is also a consumer of the Adapter Audit Log data.</p>
VHA Enterprise Terminology Services (VETS)	A web service that translates terminology between different applications. VETS is used by the NwHIN Adapter when assembling a C32 or a C62 document for trusted, external healthcare partners.
VHA Unique Identifier (VUID)	Data entered in VistA health information as an identifier for specific medications, problems and so on. Then as part of the C32 information, the VUID is translated from an internal VA-uniqueID to a standard identification system like SNOMED or RXNORM.
VistaWeb (S3)	<p>Provides the clinician facing user interface. VistaWeb is the primary consumer of NwHIN data that is hosted by the Adapter.</p> <p>Display health information sent from an external healthcare facility to VA clinicians. Enables VA clinicians (who have access control rights) to request VA patients' Health Summary Records from VistA systems.</p>

C.2. List of Acronyms

The following table provides a listing of acronyms commonly used when discussing NwHIN Adapter functionality.

Table 12: Adapter Acronym List

Acronym	Term
CCD	Continuity of Care Document
CDA	Clinical Data Architecture
CHIO	Chief Health Informatics Office
DoD	Department of Defense
EHR	Electronic Health Record
ESR	Enrollment System Redesign

Acronym	Term
etHIP	East Tennessee Health Information Partnership
HC IdM	Healthcare Identity Management (HC IdM) Program
HIE	Health Information Exchange
HITSP	Health Information Technology Standards Panel
ICN	Integration Control Number
IDE	Idaho Health Information Exchange
IHIE	Indiana Health Information Exchange
KP	Kaiser Permanente
MAA	Multiple Assigning Authorities
MUSC	Medical University of South Carolina
MVI	Master Veteran Index
NCHICA	North Carolina Healthcare Information and Communication Association
NwHIN	Nationwide Health Information Network
ONC	Office of the National Coordinator
ONCHIT	Office of the National Coordinator for Health Information Technology
QD	Query for Documents
QHN	Quality Health Network
ROI	Release of Information
RPC	Remote Procedure Call
SCHIEx	South Carolina Health Information Exchange
SSA	Social Security Administration
TSPR	Technical Services Project Repository
UHIN	Utah Health Information Network
VA	Department of Veterans Affairs
VAMC	Veteran Administration Medical Center
VAP	Veterans Authorization and Preferences application
VETS	VHA Enterprise Terminology Services

Acronym	Term
VHA	Veterans Health Administration
VistA	Veterans Health Information Systems and Technology Architecture (VistA) Web
VLER	Virtual Lifetime Electronic Records Initiative
VPR	Virtual Patient Record