

Clinical Data Repository/ Health Data Repository (CHDR) User Guide



CHDR Version 2.1

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Revision History

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

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9/1/2011	.01	Added heading for 2.1 release info under What's New.	Kathy Stark
8/23/2011	.01	Start new user guide with no version number in name, in order to continue updating through the releases. Started adding new messages for the Error Message sections.	Kathy Stark, CHDR Lead Technical Writer / Dick Rickard, CHDR Project Manager

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Introduction

About the CHDR System

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 and shared between the two agencies healthcare systems. The computable data can then be divided into fields and can be sorted, rather than provided as unsortable text.

Medical records and patient health care histories are stored and maintained in a centralized repository at each agency. Medical records entered and maintained in the DoD TRICARE system 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) provides a centralized storage for medical records entered and maintained in the Veterans Health Information System and Technology Architecture (VistA) and Computerized Patient Record System (CPRS). The CHDR system is the link between these two systems.

CHDR works in the background to deliver improved information sharing between the DoD and VA of medical records for Active Dual Consumers (ADC) patients. The interoperability provides clinical users at DoD and VA medical facilities with bidirectional, real-time exchange of medical records that will include, at a minimum, the exchange of outpatient pharmacy and drug allergies (limited only to drug allergies) to enable drug/drug and drug/allergy order checks. The integrated clinical data between the DoD and the VA (outpatient pharmacy and drug allergy data) can be viewed in [VistAWeb](#) or [CPRS Remote Data Views \(RDV\)](#).

CHDR facilitates the sharing of a Virtual Lifetime Electronic Record (VLER) between DoD and the VA for our nation's Veterans. This enables the VA/VHA to provide a comprehensive integrated medical record that is compliant with the Health Insurance Portability and Accountability Act (HIPAA) and other privacy regulations, and to facilitate a seamless transition from military to Veteran status.

About the Active Dual Consumer Patient

Dual consumers are patients eligible to receive health care under both DoD and VA health plans, or are patients assigned to a joint venture site. If a dual consumer patient has received treatment at both DoD and VA medical centers, they may be considered an active dual consumer (ADC).

Example: A patient generally receives treatment at the DoD William Beaumont Army Medical Center but requires a medical test not available at that DoD facility. The patient is then sent to the VA El Paso Medical Center for this medical test. This patient is considered an ADC patient since treatment has been given at both DoD and VA medical centers.

The patient's status must be changed to *Active* before electronic medical records can be shared between the two agencies. This can be done on an individual patient basis using the VA web-based CHDR Administration Application (CHDR Admin GUI) or via DoDs automation process.



CHDR shares data between the VA and DoD under a VA/DoD Interagency Sharing Agreement. No individualized consents per patient are required.

Why Set a Patient ADC (Active)

- Clinical data is only exchanged for patients set (marked) as an *active* dual consumer (ADC).
- Clinical Data includes outpatient pharmacy prescription and drug allergy data that is currently exchanged through CHDR (other domains to follow).
- Outpatient pharmacy prescriptions and drug allergies successfully exchanged are included in drug-drug and drug-allergy interaction checks at both agencies.
- Historical clinical data on separated service members is exchanged.
- Without activation, **no data** is exchanged, and the patient may have an incomplete medical record.

How to Determine Whom to Set Active

Some suggested approaches are to:

- Review VA/DoD sharing agreements to identify shared population at your site. For example: Augusta VAMC refers cardio-thoracic patients to Eisenhower AMC for surgery by DoD physicians. El Paso VAHCS refers patients to William Beaumont AMC for inpatient hospital treatment.
- Set (mark) all patients as ADC (*active*) during registration. This process may work well for facilities with high levels of sharing.
- Set (mark) a patient ADC (*active*) just prior to a scheduled appointment.
- Develop FileMan queries to identify shared patients based on some/all of the following and set (mark) these patients ADC (*active*) just prior to a scheduled appointment.
 - Station 200 treating facilities (BHIE/FHIE data present). The patients will have DEERS IDs.
 - TRICARE eligibility (dual eligibility).
 - Period of Service (Active).
- Consult with your Clinical Application Coordinator (CAC) or Information Resource Management (IRM), as each VAMC will implement a process to mark patients.



For a description of the major and subordinate categories of beneficiaries that receive or can potentially receive health care as a dual consumer, refer to the DoD Categories of DoD and VA Active Dual Consumer Beneficiaries document.

About the CHDR Administration Application

The CHDR Administration Application graphical user interface (also known as CHDR Admin GUI) is used to set (manually mark) patients as Active Dual Consumers (ADC). After patients are marked Active, the CHDR system begins sharing clinical data between the VA HDR and the DoD CDR. Clinical data includes outpatient pharmacy prescription and drug allergy data that is currently exchanged through CHDR (other domains to follow).

The use of terminology mediation in the exchange enables the CHDR system to work in the background to perform drug-drug and drug-allergy interaction checks against the ADC patient's integrated VA/DoD medical record, and an order entered in Computerized Patient Record System (CPRS). VistAWeb can be used to query the VA and DoD integrated health records.

For additional information, see section, "[View Clinical Data in VistAWeb](#)" or refer to user documentation at <http://vista.med.va.gov/vistaweb/documentation.htm>.

How to Set a Patient ADC (Active)

- Set (mark) on an individual basis using the CHDR Admin GUI ([Patient ADC Status](#) menu option).
- Set (mark) through DoDs automation process.



The process of “marking” patients as ADC is largely automated. However, since there can be delays, it is suggested that sites gain competency in the use of the web-based CHDR Admin GUI to verify a patient is ADC active rather than assume all patients are active. Consult with your CAC or IRM to determine patients to mark, or how to request a patient be marked.

Security Keys

If you are located at a multi-divisional medical center, ensure that the **DG CHDRUSER** security key is assigned to all end-users assigned to change an ADC status. In addition, the local administrator can enhance the user's access to the parent subdivision and/or configure their ability to access their subdivision from the Institution dropdown field.

The authority to grant these keys is site specific and is usually presided over by someone with permission to grant IT security keys. At some sites, this may be the CAC.

Document Purpose

This guide provides information about the CHDR System and how to use the VA web-based CHDR Admin GUI to set (mark) patient as *Active* Dual Consumers (ADC) in order to facilitate the sharing of medical records between the two agencies.

Intended Audience



This document is intended for CHDR users (i.e., admission clerks, patient scheduling, and CACs) who will be responsible for identifying and marking patients as *active* dual consumers, and clinicians or providers viewing the integrated data in VistAWeb or CPRS.

Document Conventions

This manual uses the following conventions:

- *Italic* for document titles and emphasis.
- **Bold** for all user responses.
- `Courier` type for messages displayed by the CHDR System.

Icons used to highlight key points in this manual are defined as follows:

Icon	Description
	User notes of interest or key information to understand user functions.
	Warning, important user information.

When the manual describes actions performed with the mouse, the following terms are used:

Term	Description
Click	<p>Press and release the mouse button. Position the cursor arrow over a portion of the window, such as a button or scroll bar, and then click.</p> <p>When the instructions state <i>click</i>, it refers to clicking the left mouse button once. To click, press and quickly release the mouse button once.</p> <p>When no button is specified, the left mouse button is assumed.</p>
Double-click	This action is used to select an item. To double-click; press the left mouse button twice in rapid succession and release.
Highlight or Select	This indicates the item you want to select. To highlight or select, double-click the item or text.

Online Help

The web-based CHDR Admin GUI includes online Help for information and instructions on using the application. To access the Help topics, click **Help** from the menu or press **F1** in an open dialog box.

Related Manuals

- CHDR Field Operations Installation Guide
- CHDR System Management Guide
- Computerized Patient Record System (CPRS) User Guide (GUI Version)
- VistAWeb User Manual

Documentation for CHDR is located at <http://www.va.gov/vdl/application.asp?appid=155>.

User documentation for VistAWeb is located at <http://www.va.gov/vdl/application.asp?appid=147>.

Documentation for CPRS is located at <http://www.va.gov/vdl/application.asp?appid=61>.




Some links found in the CHDR documentation and in the online Help go to sites or pages found on the VA intranet. These sites or pages are not accessible from outside the VA network.

What's New?

CHDR 2.1 Release

The following table lists new features and enhancements included in the CHDR 2.1 release for the CHDR system and the web-based CHDR Admin GUI.

CHDR System	CHDR Admin GUI
<ul style="list-style-type: none">• New error message for Person Service Lookup, if First name field left blank. See the notes under Person Lookup section. Also contact your site Information Resource Management (IRM) for assistance.• Clinicians can now view a single, combined, outpatient medication list for patients marked "Active" ADC looking back up to 12 months. Note: The full medication history is still viewable through BHIE via Remote Data View (RDV) or VistAWeb. The 12 months look back is for computable data to be used in decision support such as order checks.	<ul style="list-style-type: none">• Removed the camera icon  feature of Person Service Lookup (PSL). This feature is not supported by CHDR.• When the user clicks Patient Lookup with an existing patient displayed, the user will be able to search on a new patient.• Fixed the "timeout" message displayed 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."

CHDR 2.0 Released in 2010

The following table lists the new features and enhancements included in the CHDR 2.0 release for the CHDR system and the web-based CHDR Admin GUI.

CHDR System	CHDR Admin GUI
<ul style="list-style-type: none"> An ADC patient's medical record displayed in VistAWeb and CPRS now includes: <ul style="list-style-type: none"> Order entry, order fill, and medications dispensed Interagency drug to drug interaction screening Interagency drug to drug allergy interaction screening Integrated outpatient medication lists (includes updates of medications and outpatient Pharmacy transactions Integrated drug allergy lists Patient record retrieval request - one agency to pull patient record data from the other repository at the time of ADC activation (set to active). Supports the VA merge (link and move) messaging Links with the Master Patient Index (MPI) for ease of patient data sharing, and creates a common patient ID system. 	<ul style="list-style-type: none"> Menu options: <ul style="list-style-type: none"> View or Set ADC Status now displays as Patient ADC Status Added System Status menu option Login Window-removed Refresh button Patient ADC Status window: <ul style="list-style-type: none"> Added Resync. Patient Data button Lookup button renamed Patient Lookup

Synchronization of integrated clinical data (outpatient medication profile, allergy lists, drug-drug and drug-allergy interaction checks), and results between the two agencies will continue for ADC patients until the ADC status is set to inactive. Data transfer will no longer occur once status is set to inactive.

User Instructions

Access the Web-based CHDR Administration Application

1. Open Internet Explorer, and in the Address Bar, type <http://vista.med.va.gov/chdr>. The CHDR website appears.
2. Click **CHDR**, then **CHDR Administration Interface**. The CHDR Admin GUI home page appears.



3. From this page, select one of the following menu options:
 - To lookup and mark the ADC status for patients, select **Patient ADC Status**. The [Patient Lookup](#) page appears. If you are not already logged in, the Login: CHDR application page is displayed.
 - To view the audit log, select **Audit Log**. (This option is used by development and production support teams to troubleshoot outages.)
 - To view the System Status, select **System Status**. The CHDR Messaging Status page appears. This option displays the last DoD response and VA request.

Login to CHDR Administration Application

The CHDR Administration Application Login page appears when you select **Audit Log** or the **Patient ADC Status** menu options, if you are not already logged on to the system.

System Announcements:


U.S. Government Computer System

U. S. government systems are intended to be used by authorized government network users for viewing and retrieving information only, except as otherwise explicitly authorized for official business and limited personal use in accordance with policy. Information from these systems resides on and transmits through computer systems and networks funded by the government. All access or use constitutes understanding and acceptance that there is no reasonable expectation of privacy in the use of Government networks or systems.

The data and documents on this system include Federal records that contain sensitive information protected by various Federal statutes, including the Privacy Act, 5 U.S.C. Section 552a, and veterans' records confidentiality statutes such as 38 U.S.C. Sections 5701 and 7332. Access to the data and records is on a need-to-know basis only.

All access or use of this system constitutes user understanding and acceptance of these terms and constitutes unconditional consent to review and action including (but not limited to) monitoring, recording, copying, auditing.

Login: CHDR Application

 **Access Code:**

Verify Code:

☐ Sort by Station Number * ☒ Sort by Station Name *

Institution: +

* Persistent Cookie Used ([more information](#)).

1. In the **Access Code** field, type your **access code**.
2. In the **Verify Code** field, type your **verify code**.
3. Select how to sort the data, by **Station Number** or **Station Name**.
4. In the **Institution** drop down field, select your institution. Ignore the facility names beginning with “ZZ”, as those are used for testing purposes.
5. Click **Login**. The CHDR Administration Application home page appears.



If you are experiencing difficulty logging in and are located at a multi-divisional medical center, contact your system administrator. Your CHDR security keys may/may not be assigned. In addition, your local administrator can enhance your user access to the parent subdivision and/or configure your ability to access your subdivision from the site select dropdown menu in CHDR.

Logout of CHDR Administration Application

1. On the CHDR Administration menu, click the **Logout** option.
2. The Login option is then displayed on menu to the left.

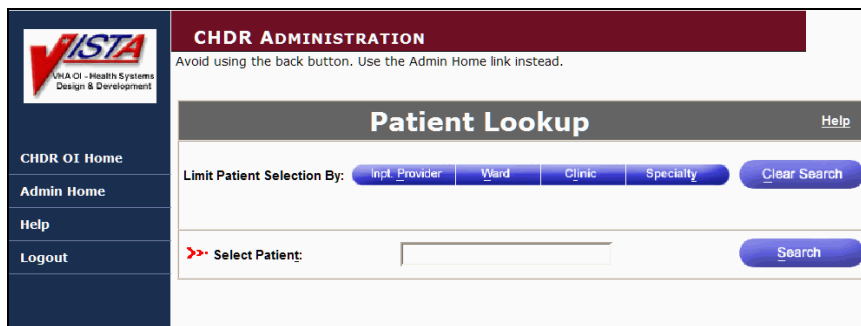
View or Set Patient ADC Status

The Patient ADC Status menu option is used to lookup (search) patient records in order to view the dual consumer status for a patient, to change the status to active, which begins the exchange of records between the DoD and the VA. The CHDR Administration Application links with the Person Service Lookup to search for patient records.

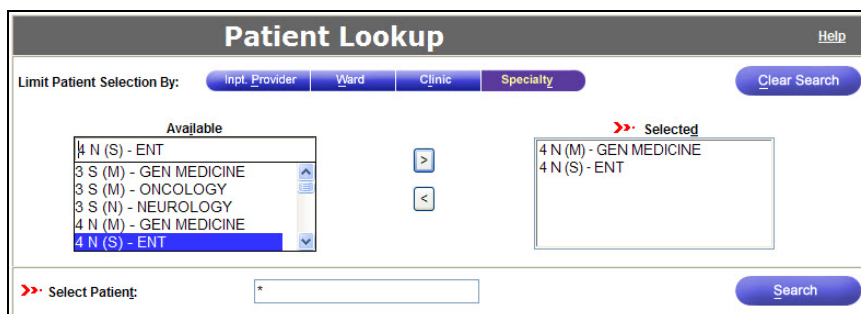
This section includes user instructions on how to view and change the ADC status for a dual consumer. For additional instructions on using the Person Lookup interface, see the *Person Services Person Lookup User Manual* on the [Common Services-PS Lookup](http://tspr.vista.med.va.gov/warboard/anotebk.asp?proj=645&Type=Closed) web site, <http://tspr.vista.med.va.gov/warboard/anotebk.asp?proj=645&Type=Closed>.

View the ADC Status

1. Click the **Patient ADC Status** menu option. The Patient Lookup page appears.



2. To narrow your search, in the **Limit Patient Selection By** field filter option, click **Inpatient Provider**, **Ward**, **Clinic**, or **Specialty**. Based on your selection, the appropriate filter selection lists are displayed. The following is an example of the Specialty filter option.



3. Select the available entries in the **Available** list box, in one of three ways:
 - Double-click the desired name.
 - Click the desired name and click the **>** button.
 - Select multiple names by clicking the first desired name, then press **Ctrl** while clicking each additional name you want to select. When complete, click the **>** button.

Your selections appear in the **Selected** list box. To remove a name in the **Selected** list, click the name, and click the **<** button, or double-click the selected Inpatient Provider.

4. In the **Select Patient** field, enter the patient's name. You can also enter:
 - Partial last name of patient (at least four characters).
 - Patient's last and partial or full first name (use a comma between the last and first names).
 - Patient's Social Security Number (SSN) without dashes.
 - First letter of the patient's last name and the last four digits in their SSN. For example, M1234.

The wild card search (asterisk *) is available only when using filters.

5. Click **Search**. The **Patient Lookup** page appears. All possible matches display with the patient identifiers (patient's name, SSN, gender, date of birth (DOB), patient type, eligibility).

Name	SSN	DOB	Gender	Patient Type	Eligibility
CHDRDEMOA,DEMOA	666442211	01/01/1950 (59)	M	NSC VETERAN	
CHDRDEMOAB,DEMOB	666442222	01/10/1951 (58)	F	NSC VETERAN	
CHDRDEMOABC,DEMOABC	666442233	01/20/1952 (57)	M	NSC VETERAN	
CHDRDEMOABCD,DEMOC	666442244	01/30/1953 (56)	M	NSC VETERAN	

If there are more possible matches, hyperlinks appear at the bottom of the window. Click the appropriate hyperlink to navigate to the **First**, **Previous**, **Next**, and **Last** page of the results.

6. Click the **patient's name** that you want to view. If applicable, any status notifications pertaining to that patient display.



If the error message, "First Name cannot be empty!" is displayed, when selecting a patient's name, the post install patch XU*8.0*134 for Vista that implemented the name component file needs to be installed. Contact your site Information Resource Management (IRM) for assistance.

Notifications appear one at a time for user acknowledgment. The following is an example of a Patient Lookup Status Notification with a CWAD icon warning (Crisis notes, Clinical Warnings, Allergies, and/or Advanced Directives exist). See Appendix B, Status Notification Message and Icons, for descriptions of the notification messages that may display.

Patient Lookup Status Notification

Name: CHDRDEMOABC,DEMOABC SSN: 666442233 DOB: 01/20/1952 (55)

Warning: This patient has a CWAD entry of A.

[Continue](#) [Cancel](#)

- Click **Cancel** to return to the Patient Lookup page.
- Click **Continue** to acknowledge the notification. The message, "Please Wait... Validating Patient VA National Identifier (ICN)..." may appear.

If no status notifications apply, the **Patient ADC Status** page appears. To exchange electronic medical records between the two agencies repositories (DoD CDR and VA HDR), the patient must be set up as an Active Dual Consumer (ADC). **No data transfer occurs until this switch is made.**

CHDR ADMINISTRATION

Avoid using the back button. Use the Admin Home link instead.

Patient ADC Status

Last Name :	CHDRPatient
First Name :	Two
Middle Name :	
Gender :	Male
SSN :	666-44-2233
Date of Birth :	01/20/1952
ADC Status :	INACTIVE

Set the ADC Status

1. If the ADC status is Inactive, click the **Change ADC Status** button to initiate the change to ACTIVE. The Patient Change Confirmation page appears.
2. If the ADC status is already active, and to exit without making a change, click the **Patient Lookup** button. The Patient Lookup page is redisplayed.



Only authorized users at the originating agency can change the ADC status for a patient that exists in their local repository.

Confirm the ADC Status Change

The Patient ADC Change Confirmation window appears when you click the **Change ADC Status** button on the Patient ADC Status page.

CHDR ADMINISTRATION
Avoid using the back button. Use the Admin Home link instead.

Patient ADC Change Confirmation

Last Name :	CHDRPatient
First Name :	Two
Middle Name :	
Gender :	Male
SSN :	666-44-2233
Date of Birth :	01/20/1952
ADC Status :	INACTIVE

ADC status
 the change

CHDR ADMINISTRATION
Avoid using the back button. Use the Admin Home link instead.

Patient ADC Status

Last Name :	CHDRPatient
First Name :	Two
Middle Name :	
Gender :	Male
SSN :	666-44-2233
Date of Birth :	01/20/1952
ADC Status :	ACTIVE

1. To change the status, click the **Confirm** button. A Patient ADC Status Change Request is sent to the other agencies repository and to its own repository (DoD CDR or VA HDR). Upon completion, the ADC status displays Active.

CHDR ADMINISTRATION
Avoid using the back button. Use the Admin Home link instead.

Patient ADC Status

Last Name :	CHDRPatient
First Name :	Two
Middle Name :	
Gender :	Male
SSN :	666-44-2233
Date of Birth :	01/20/1952
ADC Status :	ACTIVE

2. The data is exchanged automatically with no further action by the user. If it becomes necessary to re-sync the patient's data because you believe the data is incomplete, click **Resync Patient Data**. The message, "In Progress" displays until the transaction with the DoD is complete.



WARNING: If a system outage on the DoD side prevents data exchange for an Active dual consumer, the **data exchange WILL occur after the system outage is over.**

Recommended practice is to check back later and ensure the change occurred.

Create and View a CHDR Audit Query

The CHDR Audit Log is typically used by development and production support teams to troubleshoot outages or to view audit logs for data processed by the CHDR system. An audit log query can be used to verify that records (initial or update) were successfully exchanged and acknowledged by DoD. Types of audit logs created might include:

- Number of ADC events (requested or responded) successfully sent to and received from DoD.
- Number of link requests and acknowledgements, or events for the exchange of historical data updates.
- Number of specific transactions (allergy, pharmacy) for an individual patient.



NOTE You must have the DG CHDRADMIN security key assigned in order to use the audit log feature.

Create Audit Event Query

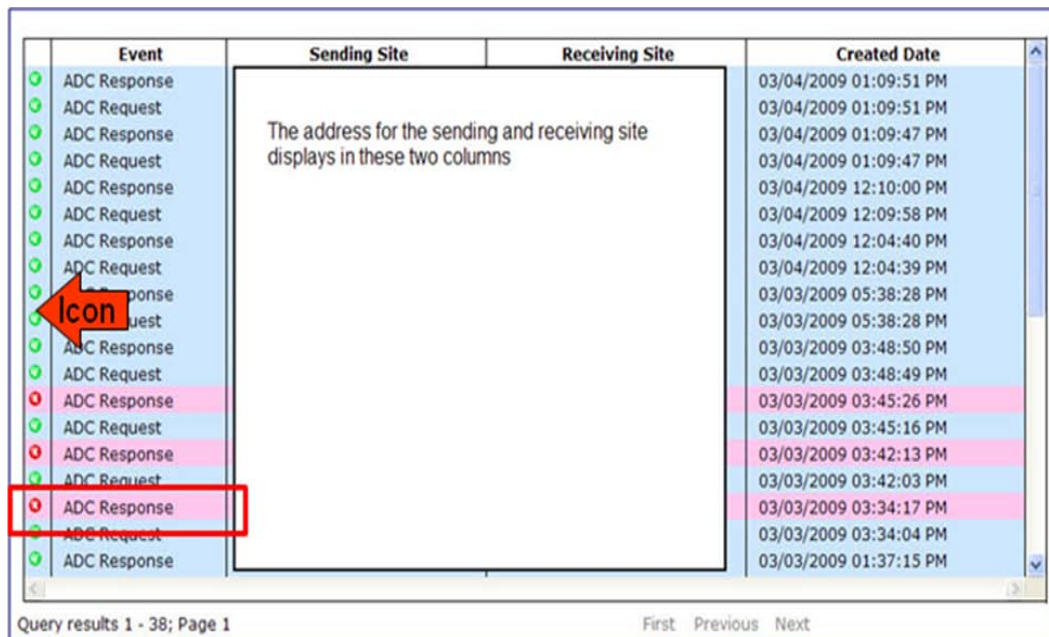
1. From the CHDR Administration Application menu, click **Audit Log**. If you are not already logged in, the Logon Page appears. Otherwise, the View CHDR Event Audit Table Page appears.

2. Click in the **Start Date** field, and from the calendar displayed, select the Start Date for the query. The field default is set to 12:00 AM for the previous day.
3. Click in the **End Date** field, and from the calendar displayed, select the End Date for the query. The field default is set to 11:59 PM for the current day.
4. In the **Events** field, select the type of audit entry. Refer to Appendix C, CHDR Event Audit Table Field Descriptions for field definitions.
5. In the **Outcome** field, select **All**, **Success**, or **Failure**.
 - Select **All** to include the records that passed or failed delivery for that event type.

- Select **Success** to include only the records that were successfully delivered for that event type.
 - Select **Failure** to include only the records that failed delivery for that event type.
6. In the **Patient ICN** field, type the patients VA Patient Identifier, also known as the Internal Control Number to filter out records relating only to that patient. This field is optional.
 7. Click **Search**. The audit results matching the search criteria entered are displayed. This information can be used to determine if the initial or update record was successfully exchanged and acknowledged by the other agency's system.

View the Query Results

The following example is a query of ADC Messages to include all (records that passed or failed).



Event	Sending Site	Receiving Site	Created Date
ADC Response	The address for the sending and receiving site displays in these two columns		03/04/2009 01:09:51 PM
ADC Request			03/04/2009 01:09:51 PM
ADC Response			03/04/2009 01:09:47 PM
ADC Request			03/04/2009 01:09:47 PM
ADC Response			03/04/2009 12:10:00 PM
ADC Request			03/04/2009 12:09:58 PM
ADC Response			03/04/2009 12:04:40 PM
ADC Request			03/04/2009 12:04:39 PM
ADC Response			03/03/2009 05:38:28 PM
ADC Request			03/03/2009 05:38:28 PM
ADC Response			03/03/2009 03:48:50 PM
ADC Request			03/03/2009 03:48:49 PM
ADC Response			03/03/2009 03:45:26 PM
ADC Request			03/03/2009 03:45:16 PM
ADC Response			03/03/2009 03:42:13 PM
ADC Request			03/03/2009 03:42:03 PM
ADC Response			03/03/2009 03:34:17 PM
ADC Request			03/03/2009 03:34:04 PM
ADC Response			03/03/2009 01:37:15 PM

Query results 1 - 38; Page 1 First Previous Next

If there are more possible matches, hyperlinks appear at the bottom of the window. Click the appropriate hyperlink to navigate to the **First**, **Previous**, and **Next** page of the results.

The **green icon** indicates a **successful exchange** for that event type. The **red icon** indicates the data **exchange failed**. Use the scroll bars to view additional records, or click **Next** to go to the next page.

1. Click the **icon** next to a single row to **retrieve related events** for that line item. The event type (response or request), sending site, receiving site, and created date represents if the initial or update data exchanged and acknowledged by the other agency's system.
2. Highlight and **click a single row** to view the **transaction detail**. The CHDR Transaction Detail Display page appears in a separate window.

CHDR Transaction Detail Display

Event Type: ADC Response	Event Id: 78093
Created Date: 03/03/2009 12:00:26 PM	Timestamp: 03/03/2009 12:00:26 PM
Message Id: cadb4770081411deb386	Correlation Id: ca668d6d081411debc75
VPID: 1011165339V788697	Additional ID: 1666442211
Sending Site: [REDACTED]	Receiving Site: [REDACTED]
Additional Information: ACTIVE / Single Match	
Outcome: Success	

Message Content:

**For security reasons, HL7 messages
do not display in production.**

The transaction detail includes information such as the event type, event ID, message ID and correlation ID, VPID, additional ID and additional information, the sending and receiving site, and the outcome.

3. To exit the detailed information, click **Close Window**.



To protect patient sensitive information, the HL7 message content does not display in the production environment.

Understanding Audit Results

This section explains the fields displayed for the results of an audit log query. The CHDR Transaction Detail and HL7 message content fields are defined. For example, you might create an audit log query to determine if records (initial or update) were successfully exchanged and acknowledged by DoD.

CHDR Audit Fields Defined

Audit Fields	Description
Event Type	Type of requests, such as ADC status changes, specific domain transfer request Pharmacy medications, allergies or chemistry/hematology, or link and move request.
Event ID	ID assigned to that event request.
Created Date	Date event message was created.
Timestamp	Timestamp (day and time) for the event. In the format MM/DD/YY HR:MIN:SEC.
Message ID	Message ID assigned to the event request.
Correlation ID	Correlation ID assigned to the event request.
VPID	Veteran Affairs Person Identifier.
Additional ID	Additional ID assigned to the event request.
Sending Site	Address for the site sending the event request.
Receiving Site	Address for the site receiving the event request.
Additional Information	Additional information related to the event request, such as Active, Inactive, and Single Match.
Outcome	The outcome for the event request, such as success or request failed.

HL7 Message Content Fields Defined

HL7 Message Type	Event Type	Description
ZCH^Z01	ADC Status Change Request	One agency is sending a request related to Patient ADC Status from the other agency.
ZCH^Z02	ADC Status Change Response	Message returned in response to the Patient ADC Status Request.
ORU^R01	Allergy	One agency is sending an update request to the other agency regarding allergy events.
RDE^O11	Pharmacy Order	One agency is sending a pharmacy order to the other agency for pharmacy order update event (initial order or by a status change).
RDS^O13	Pharmacy Fill	One agency is sending an update request to the other agency for pharmacy fill update event (by a refill or partial fill, but not for an original fill).
ORU^R01	Chem/Hem Lab Results Updates	One agency is sending an update request to the other agency for Chem/Hem Laboratory Result update events.
QBP^Z05	Patient Record Retrieval Request	One agency is requesting all current patient records from another agency. (There are also additional records of this type that mark the end of a request without displaying any message data.)
RSP^Z06	Patient Record Retrieval Response	Message returned in response to the Patient Record Retrieval Request.
ZCH^Z04	Update Response	One agency sends an update response to any patient record request. Also used to alert the other agency that the Patient Record Retrieval Response message has been successfully stored. (Message used for acknowledgment, either success or failure.)

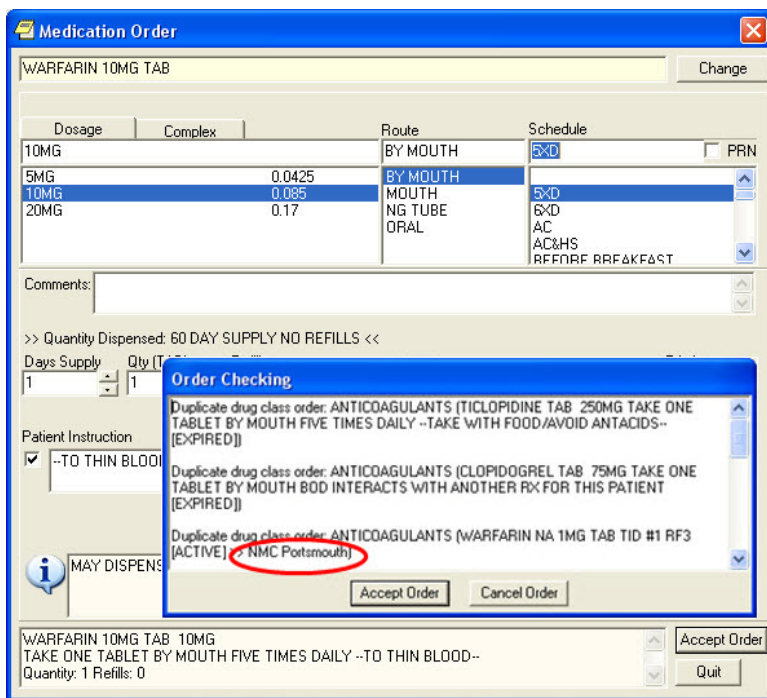
Interaction Alerts in CPRS

CHDR currently exchanges Outpatient Pharmacy Prescription and Drug Allergy data for Active Dual Consumers (patients receiving treatment or scheduled for treatment at both VA and DoD medical facilities). A patient must be marked *active* for the data exchange to occur. The use of terminology mediation in the exchange, allows for interagency drug/drug and drug/alert interaction checking.

The first place you will notice CHDR is when you enter an order in Computerized Patient Record System (CPRS). The CHDR System works in the background to perform drug/drug and drug/allergy interaction checks against the patient's integrated VA/DoD medical record. If applicable, the Order Checking window appears if the VA prescription entered causes an interaction alert. To learn more about the interacting drug or allergy, you can query the VA and DoD integrated health records in VistAWeb.

Basic Pharmacy order and drug-drug alert in CPRS:

1. Log on to CPRS using your access and verify code.
2. Select a **patient**, and enter the prescription order. Click **Accept Order**. If applicable, the Order Checking window appears warning of a significant drug-drug or drug-allergy interaction. For an interacting allergy, only the reactant is listed. The remote site of origin is displayed, as shown in the following example.



3. Click **Cancel Order** to enter another order. Click **Accept Order** to continue processing the order. You can view the underlying drug or allergy in VistAWeb, or CPRS Remote Data View (if enabled). For additional information on viewing data in VistAWeb, see section, "[View Clinical Data in VistAWeb](#)" or refer to user documentation at <http://vista.med.va.gov/vistaweb/documentation.htm>. For additional information on CPRS, refer to the user documentation on the CPRS Documentation webpage http://vista.med.va.gov/cprs/html/technical_info_.html.

Below is a similar drug-drug alert a pharmacist would receive when using backdoor pharmacy.

```

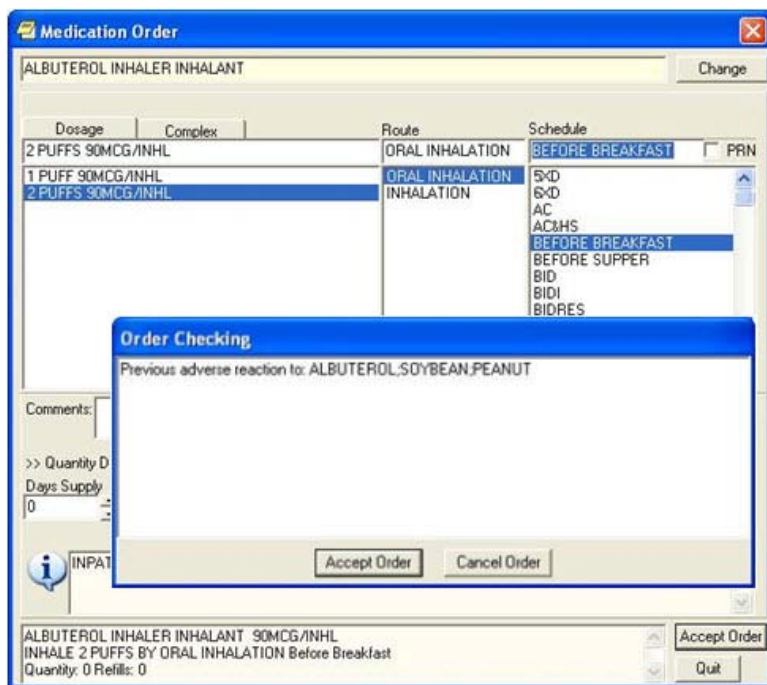
Now doing remote order checks. Please wait...
Now doing drug interaction and allergy checks. Please wait...

DRUG INTERACTION WITH RX #s: P1111111SIMVASTATIN 40MG TAB,

-----
>> NH Great Lakes IL
** CRITICAL ** DRUG-DRUG interaction ERYTHROMYCIN & SIMVASTATIN
Remote RX # P2222222Drug: SIMVASTATIN 20MG TAB
Status: ACTIVE                               Issued: 10/13/06
SIG: TAKE ONE TABLET BY MOUTH EVERYDAY IN THE EVENING TO
      LOWER CHOLESTEROL #90 RF3
QTY: 90.0
Provider: VAProviderOne
      Refills remaining: 2
      Last filled on: 10/13/06
      Days Supply: 90
  
```

Basic Pharmacy order and drug-allergy alert in CPRS:

1. Log on to CPRS using your access and verify code.
2. Select a **patient**, and enter a prescription order. Click **Accept Order**. If applicable, the Order Checking window appears warning of a significant drug-drug or drug-allergy interaction. For an interacting allergy, only the reactant is listed.



3. Click **Cancel Order** to enter another order. Click **Accept Order** to continue processing the order. You can view the underlying drug or allergy in VistAWeb or CPRS Remote Data View (if enabled).

For additional information on viewing data in VistAWeb, see section, “[View Clinical Data in VistAWeb](#)” or refer to user documentation at <http://vista.med.va.gov/vistaweb/documentation.htm>.

For additional information on CPRS, refer to the user documentation on the CPRS Documentation webpage http://vista.med.va.gov/cprs/html/technical_info_.html.

View Clinical Data in VistAWeb

VistAWeb is an intranet web application used to view remote patient data found in VistA and the VA Health Data Repository (HDR) database. VistAWeb mirrors the reports behavior of the CPRS, and is a great tool to lookup additional drug-drug or drug-allergy information for interaction alerts displayed in Computerized Patient Record System (CPRS).

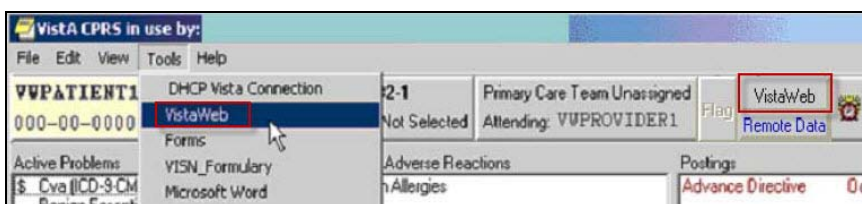
You can also use VistA web to view the VA and DoD integrated health records processed through CHDR in a viewable format. To access VistAWeb, you can set VistAWeb as the default remote data view in CPRS, or go to <https://vistaweb.med.va.gov/>.



Access to VistAWeb from the **Tools** menu, will require the Tools menu to be properly configured for your site, and appropriate CPRS access privileges.

Basic steps for viewing CHDR data in VistAWeb:

1. Log into CPRS using your access code and verify code.



2. Select **VistAWeb** from the **Tools** menu or click the **VistAWeb** button. A list of sites where the patient has been treated display. By default, you will be able to look up only those patients who are in your local VistA site. Data for the selected patient includes data from all sites where that patient has data.



3. Select your site from the menu at the left. Select a **patient**. Ensure that HDR is listed in the available sites. Note that the “Dept of Defense (DoD)” refers to legacy sharing project data, not CHDR.

Data for this patient will be acquired from the following sites:			
Site Name	Patient Name	SSN	DOB
El Paso, TX (ELP)	CHDRZZZTESTPATIENT,CHDRFIVE		
DoD (DOD)	CHDRZZZTESTPATIENT,CHDRFIVE		
HDR (HDR)	CHDRZZZTESTPATIENT,CHDRFIVE		

- ☒ ***Allergies**
- ☒ Appointments
- ☒ Patient Information
- ☒ Visits/Admissions
- ☒ Dietetics
- ☒ Discharge Summaries
- ☒ Laboratory
- ☒ Medicine
- ☒ Orders
- ☒ Outpatient Encounters/GAF
- ☒ Pharmacy
 - ☒ Medications
 - ☒ ***All Outpatient**
 - ☒ Outpatient Rx Profile

SIG	Site
TAKE 1 TABLET ORALLY EVERY 2-4 HOURS	EL PASO VA HCS*
1 PD #1 RFO	WBAMC El Paso*

Medication	Site
4th Medical Group †	
4th Medical Group †	
4th Medical Group †	

4. Select **Allergies** or **All Outpatient** report. If the report is DoD enabled through CHDR, then DoD records are retrieved.
5. If new data is added to a patient's record in CPRS, you can click the **Refresh Patient Data** button, and navigate back to the appropriate report to see the data.



For report data, a DoD Facility Name indicates DoD data and an asterisk indicates CHDR as the source of the data while the dagger † indicates BHIE (DoD) as the source of the data.

Refer to the VistAWeb user documentation at <http://vista.med.va.gov/vistaweb/documentation.htm> for additional information on using VistAWeb.

Error Messages

This section includes actions that you can take to diagnose and correct errors. The 900 error message series describe CHDR application errors that are inserted into reply messages between the VA and the DoD. Some of these codes may also appear in the Audit Log.

If these messages appear on the Audit Filter table, enter a Remedy ticket.

CHDR System Errors

Error Code	Message and Description	User Action
900 - A general code that could include a wide variety of situations	Timeout Error message - A request was sent to DoD, and the waiting thread timeout expired before the response was retrieved. (Timeout limit is four minutes)	<p>Do one of the following:</p> <ul style="list-style-type: none"> • Check connectivity and JMS queues between the VA and DoD. • On the WebLogic console: Click CHDR > JMS. Next, select the Monitoring tab. Then, click the Monitor JMS Active Destinations tab. • Check to see if the IE (interface engine) or WebLogic server is running. • Log a remedy ticket if you are a VAMC user. • Log an AITC support ticket, if you are an AITC staff member.
901- HL7 Format Error	An HL7 message format is invalid.	View the CHDR Audit log to check the contents of the message.
902 – Patient Lookup Error	<p>The patient is inactive message or the patient is not in the ADC database.</p> <p>The patient you are trying to locate is not an Active Dual Consumer patient.</p>	<p>Do one of the following:</p> <ul style="list-style-type: none"> • Use the CHDR console, to view the ADC status for the patient. Determine if this patient is ADC or not. (You can ask the VA Admin to check this status as well.) • View the CHDR Audit Log to check this message.
903 – Terminology Error	A data field that is mediated, such as a drug name or an allergy reaction is not recognized. An error of this type could come from the DoD or the VA and is an error for Terminology Services.	Refer this error to Terminology Services. Send an email to the VETS (VA Enterprise Terminology Service) group.

Error Code	Message and Description	User Action
904 and 906 – Database Errors	<p>904 - Database Update Error. An exception occurred while you were trying to write to the CHDR database.</p> <p>906 - An exception occurred while you were trying to retrieve information from the CHDR database.</p>	<p>Possible reasons for database errors:</p> <ul style="list-style-type: none"> • The database is offline and inaccessible. • You do not have the proper security permissions. • The database is in a read-only state. <p>Check the JDBC connection to the database.</p>
905 – MPI Error	You are trying to access the MPI but it is inaccessible.	Contact the MPI Support team.

CHDR Administration Interface Errors

You may see the messages listed in the following table when using the CHDR Consol or when using the CHDR Administration Application Interface (CHDR Admin GUI).

Error Message	Description	User Action
"First Name cannot be empty!"	The error message may display when selecting a patient from the patient lookup search results.	The post install patch XU*8.0*134 for Vista needs to be installed. Contact your site Information Resource Management (IRM) for assistance.
Exception in DisplayPersonAction	Unknown Reason.	Try again. If error persists, report error, and include the internal exception that is displayed.
<p>ADC status not changed, message may include any of the following:</p> <p>Returned status does not match requested status.</p> <p>Exception attempting to change ADC status.</p> <p>No error information provided.</p>	An attempt to change the ADC status of a patient failed during processing.	Try again. If error persists, report error. Include the internal exception that is displayed.
Internet Explorer error using patient lookup filter options (Provider, Ward, Clinic, etc.).	This could be a PSL deployment/configuration, or an environment issue (service may be down).	Contact your site Information Resource Management (IRM) for assistance, or enter a Remedy ticket.

Error Message	Description	User Action
Audit record retrieval failed	An exception occurred while retrieving audit records.	This is a SQL exception, such as out of memory, invalid select statement, and so on. The Java exception could look similar to the following: weblogic.utils.NestedRuntimeException: Error writing from beforeCompletion – with nested exception: [java.lang.OutOfMemoryError]at weblogic.ejb20.internal.TxManager\$TxListener.beforeCompletion(TxManager.java:673)
Start date is required.	Invalid start or end date entered or left blank when creating an audit query	The start and end date is required. The format is: MM/dd/yy, MM/dd/yyyy or MMM dd,yyyy.
End date is required	Invalid end date entered, or left field blank when creating an audit query.	Re-enter the date; valid format is: MM/dd/yy, MM/dd/yyyy or MMM dd,yyyy..
MPI Begin Marker Not Found (905 error)	An error occurred during a patient lookup. The MPI may be unavailable or there may be a communications problem.	Try the lookup again.
ADC Informational Display/ MPI validation failed	This message appears during a patient lookup. MPI validation failed because the selected patient's local ID did not match a national ID . CHDR performs a lookup against the local patient database and compares the local patient to the national database to ensure the correct patient has been selected.	<u>Report this issue to your site IRM staff.</u> This error means that the national lookup did not find an exact match for the patient with the same Integrated Control Number (ICN), which is the VAs unique identifier for a patient. MPI did not find a match for this patient. Right-click on the page, and select Back to return to the Patient Lookup page. Or click Admin Home menu option to return to the CHDR Admin homepage.

KAAJEE/VistALink Login Errors

CHDR uses VistALink/KAAJEE to synchronously authenticate and authorize users at the time the user logs into the CHDR Admin GUI. The Admin GUI also uses the VistALink connection for authorizing users so they can search using PSL for the patients that belong to their site.

These are more common Login Error messages. To see a complete listing of KAAJEE errors, and for additional troubleshooting steps, see the *KAAJEE Deployment Guide*, “Chapter 11: Troubleshooting, common login-related error messages

Message	Description	User Action
Forms authentication login failed. Try login again.	Login authorization failed. The user did not have the appropriate security key, which is assigned by the VAMC site, or a configuration error in the role setup.	Contact your supervisor to see that you have permissions for that security key.
Not a valid ACCESS CODE/VERIFY CODE pair. Try login again.	The message displays when the user entered an invalid access code, verify code, or combination of the pair at the login page.	Click Try login again to return to the Login page. Re-enter your access code and verify code.
There was a login error detected by the login system: Error processing login credentials: Institution Mapping not found for institution “xxx”. Could not get a connection from connector pool for institution; Root cause exception: gov.va.med.vistalink.institution.InstitutionMappingNotFoundException: Could not match StationNumber 'xxx' to an institution mapping.	This message may appear during user login to the CHDR Admin GUI, were “xxx” in the message represents a site ID, also known as institution. The site ID may not be setup in the correct table, or the user may be located at a multi-divisional medical center. This may also indicate your security key may/may not be assigned.	Contact your system administrator to ensure that your security key is assigned. Your local administrator may also enhance your user access to the parent subdivision and/or configure your ability to access your subdivision from the site select dropdown menu. If any of the above does not fix the problem, log a remedy ticket so AITC can add your site ID to the correct table.

Glossary

Term or Acronym	Description
Active Dual Consumer (ADC)	The portion of the Dual Treatable population that has actually been treated by both DoD and VA medical facilities.
CHDR User	Staff assigned to lookup and mark patients as active dual consumers.
CHDR	The Clinical Data Repository / Health Data Repository (CHDR) Project is a combined effort between the Department of Defense (DoD) and the Department of Veterans Affairs (VA) to exchange integrated medical records.
Computable Data	Data that is divided into fields that can be sorted, rather than provided as unsortable text. The data may be used by the receiving Agency for providing health care and for program or business processes such as clinical reminders and drug-drug or drug-allergy checks.
CPRS	Computerized Patient Record System package that provides access to most components of the patient chart.
CPRS RDV	A tab within CPRS that enables users to query for remote clinical data.
CWAD	Crises notes, Clinical Warnings, Allergies, and/or Advanced Directives exist. In our CHDR Patient Status Lookups a CWAD entry of "A" is common, indicating that the patient has Allergy data specified.
Filter	A filter examines certain qualifying criteria requested by the user and then displays the information accordingly.
HDR IMS	HDR IMS is an Interim message store. HL7 messages are stored in an Oracle database.
Interoperable Data	Data that may be used by the receiving agency for providing health care, but may not be useful for program or business processes, such as clinical reminders and drug-drug or drug-allergy checks.
Master Patient Index (MPI)	Assigns and maintains unique patient identifiers, known as integration control numbers (ICN) that link patients to their records across the VHA systems.
Notification Icons	Icons that represent a notification to depict a patient's status.
Patient Identifiers	Fields that identifies or confirms that the patient requested is the correct individual; i.e., SSN, date of birth, age.
Patient List	A display list of patients with patient identifier keys for user selection.
Patient Lookup	The process to request patient information, using the Persons Service Lookup application.
Record	Any grouping of information that includes (but not limited to) medical history and contains the patient's name or identifying number.
Service	Any system that performs functions in service to another system or application, such as Person Services Person Lookup.

Term or Acronym	Description
SSN	Social Security Number.
VA	The Department of Veterans Affairs, formerly called Veterans Administration.
VPID	Veteran Affairs Person Identifier.
Veteran	A person who served in the active military, naval, or air services who is discharged or released under conditions other than dishonorable who meet the minimum duty requirements.
VistA	Veterans Health Information System and Technology Architecture.
VistAWeb	A web-based interface for displaying remote clinical data.

Appendix A: Patient Identifiers List















The following table is a limited list of patient identifiers that may display in the Patient Lookup window, when looking up a patient's ADC status. For a complete listing and additional information on patient identifiers, see the *Person Services Person Lookup User Manual* on the [Common Services-PS Lookup](#) web site.

Patient Identifier	Description
Date or Birth	The patient's date of birth (<i>mm/dd/yy</i>) and age of enrollee at the time of the data extract. Note that this value may change to "Sensitive".
Gender	The gender of the patient, F = Female, M = Male.
Patient Type	The name of the type of patient associated with the selected patient. For example, NSC Veteran, SC Veteran, From the Type of Patient File (391).
Primary Eligibility	Indicates if an individual is entitled to benefits and, if so what benefits is s/he entitled. Eligibility criteria is to determine benefits for the Veteran's Health Administration and are defined in the regulations for the Eligibility Reform Act of 1996, Public Law 104-262.
Room/Bed	The room and bed number assigned to the inpatient.
Service Connected	Indicates whether a patient is service, (military) connected or not. "True (yes)" or "False" (No).
Social Security Number (SSN)	The Social Security Number of the patient. Note that this value may change to "Sensitive".
Veteran Status	Indicates if the patient is a veteran. Values are "True" or "False".
Ward	The ward location on which the patient is currently residing if an inpatient.
Patient ICN	The patient's VA Internal Control Number assigned to the patient.

Appendix B: Status Notification Message and Icons

The CHDR Administration Application links with the Person Service Lookup to search for patient records, and for the display of status notifications. Status notification icons are flags used to depict the textual notification status message.

The following table lists the possible patient status notifications and their associated icon. This appendix is not a complete listing, and is for informational purpose only. For a complete up-to-date listing, see the *Person Services Person Lookup User Manual* on the [Common Services-PS Lookup](#) web site.

Status Notification Message	Warns that:	Associated Icon
Accessing Own Record	A user is attempting to access their medical records without proper permissions.	
Bad Address	The patient's address information is incorrect or invalid.	
Combat Veteran	The patient is a combat veteran.	
CWAD	Crises notes, Clinical Warnings, Allergies, and/or Advanced Directives exist.	
Deceased	The patient is deceased.	
Display Enrollment Data	Enrollment information exists for this patient containing Enrollment Priority: date, category, and end date.	
FFP	The patient is a fugitive felon.	
Means Test Required	The patient requires a Means Test.	
Patient is Employee	Indicates that the patient is also an employee. Record is protected by the Privacy Act of 1974. ⚠ If you select YES, a bulletin is sent to the Information Security Officer for the facility and an entry is created in the Security Log file.	
Patient Record Flag	Administration warnings (also known as the Behavioral Flag).	
Sensitive Record	The patient record is identified as sensitive, access will to be tracked. ⚠ If you select YES, a bulletin is sent to the Information Security Officer (mail group) for the facility and an entry is created in the Security Log file.	
Similar Patient	The selected patient matches or is similar to another patient within the database.	
Social Security Number is missing.	SSN is missing in the New Person File.	
Test Patient	The patient is a test patient record.	

Appendix C: CHDR Event Audit Field Descriptions

Field	Description
Start Date / End Date	Dates to begin and end the query. The default start date is set to 12:00 AM for the previous day, and the default End Date is 11:59 PM for the current day.
Events	Type of requests (initial/update) sent to the other agencies repository and its own repository. ADC status changes, specific domain transfer request (medications, allergies or chemistry/hematology).
ADC Messages	Number of ADC Status Change (active/inactive) requests sent to or received from the other agencies repository.
Allergy	Number of Allergy (initial/update) requests to the Patient Allergy List sent to or received from the other agencies repository.
Pharmacy	Number of Pharmacy-related (initial/update) requests sent or received from the other agencies repository for changes made to a Patient Medication Profile-Pharmacy orders refilled or new. Includes Outpatient Medication Ordering and Screening changes, drug-drug allergy alerts and drug-allergy alerts. Any time a prescription is edited, removed, cancelled, discontinued, expired, and forwarded.
Lab Chem/Hem	Number of Clinical Laboratory (Chemistry and Hematology) results requests (initial/update) for changes made to Clinical Laboratory Results sent or received from the other agencies repository.
Updated Response	Number of responses to a Patient Record Update Request, to include verification that the medication order, medication fulfilled, allergy and clinical lab results are not a duplicate record prior to sending the update response.
Historical Request	Number of Initial exchange of patient record histories between the VA National Repository and DoD National Repository.
Link Request	Number of link request sent or received from the other agencies repository. A link request is made when a patient needs to be linked into the other agencies clinical system. The request contains deprecated and surviving Patient IDs.
Link Acknowledgment	Number of link acknowledgement messages sent or received from the other agencies repository for a Link Request. The request contains Application Success and Application Reject.
Move Request	Number of move request sent or received from the other agencies repository. A move requests is made when requires a move into the other agencies repository.
Move Acknowledgment	Number of move acknowledgement messages sent or received from the other agencies repository for a Move Request. The request contains Application Success and Application Reject.
Exceptions	Internal exceptions that occurred during the processing of event request/responses.

Field	Description
Outcomes	<p>All- Includes all transactions exchanged (successful/failed) for the event type selected.</p> <p>Success - Includes only the successful transactions exchanged for the event type selected.</p> <p>Failure - Include only the transactions that failed to be exchanged for the event type selected.</p>

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