

**InterSystems Health Connect (HC) / Health Data
Repository (HDR) – Clinical Health Data
Repository (CHDR)**

**Deployment, Installation, Back-Out, and Rollback
Guide**



June 2019

**Department of Veterans Affairs (VA)
Office of Information and Technology (OIT)**

Revision History

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1 Introduction

This document describes the deployment, installation, back-out, and rollback instructions for the migration of Health Level Seven (HL7) messages from the Vitria Interface Engine (VIE) to InterSystems Health Connect (HC). There are three distinct message flows as a part of a single release of the Health Connect configuration, as three phases:

1. Between VA Clinical Health Data Repository (CHDR) and the Master Veteran Index (MVI)
2. Between Department of Defense (DoD) CHDR and VA CHDR
3. From Veteran Information Systems Technology Architecture (VistA) to the Health Data Repository (HDR) and VA CHDR

HC will replace VIE which is currently in production for the routing of these messages.

This document provides clients, stakeholders, and support personnel with a smooth transition to HC. It describes how to deploy and install the HC in production as well as how to back out the product to the previous version.



NOTE: In cases where you are installing a commercial-off-the-shelf (COTS) product, you can use the vendor-provided user guide and installation guide. However, if those guides do *not* include a back-out recovery and rollback strategy, you *must* retain that information in this document.

1.1 Purpose

The purpose of this guide is to provide a single, common document that describes how, when, where, and to whom HC will be deployed and installed; as well as how it is to be backed out and rolled back, if necessary. The guide also identifies resources, communications plan, and rollout schedule. Specific instructions for deployment, installation, back-out, and rollback are included in this document.

1.2 Dependencies

VIE supports the routing of messages among several applications. The HC product will ultimately be replacing VIE. During the transition phase both products will be running concurrently.

The success of HC as the messaging solution relies upon the availability of the VistA site administrators performing their part of the deployment in each VistA instance in a timely manner.

The installation of the shared Enterprise and Regional HC instances is *not* within the scope of this deployment, which is dependent upon those instances being installed, configured, and running in production.

1.3 Constraints

HC is an approved product as per the VA's Technical Reference Model (TRM).

2 Roles and Responsibilities

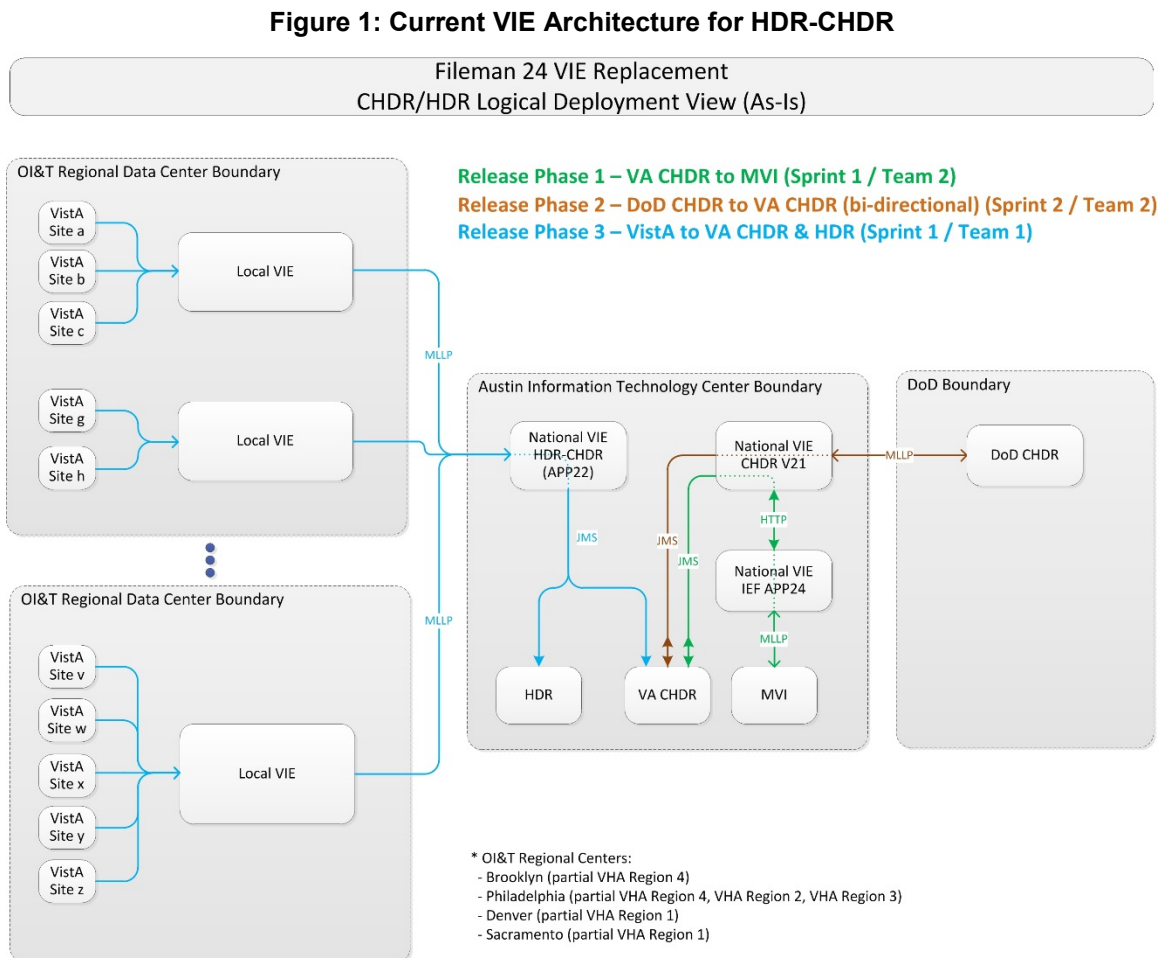
[Table 1](#) outlines the roles and responsibilities:

Table 1: Roles and Responsibilities

| ID | Team | Phase / Role | Tasks | Project Phase (See Schedule) |
|----|--|-----------------|---|------------------------------|
| | FM24 Project Management Office (PMO) | Deployment | Plan and schedule deployment (including orchestration with vendors). | |
| | | | Determine and document the roles and responsibilities of those involved in the deployment. | |
| | HC Operations | Deployment | Verify operational readiness, including availability and configuration of servers, configuration of Health Connect, and connectivity among all systems. | |
| | Site and VistA Operations | Deployment | Execute deployment, including switch of logical links to HC. | |
| | HC Operations | Installation | Plan and schedule installation. | |
| | | | Ensure authority to operate and that certificate authority security documentation is in place. | |
| | InterSystems | Installations | Coordinate training as appropriate. | |
| | Development | Back-Out | Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out). | |
| | HC Operations/ Development/ InterSystems | Post Deployment | Hardware, Software, and System Support. | |

3 Deployment

[Figure 1](#) depicts the current VIE architecture for HDR-CHDR:



The FileMan 24 (FM24) Information Technology (IT) Program Management Office (PMO) and Operations leadership have determined that a three-phase release will minimize risk by focusing deployment activities on one distinct message grouping at a time. As shown in [Figure 1](#), a single release of a HC configuration will support three phases of the release:

- Phases 1 and 2 will each be a single event executed on **two** different days.
- Phase 3 will consist of an Initial Operating Capability (IOC) at two VistA sites over a **two-week** period, and then a coordinated rapid national deployment to all VistA sites.

3.1 Pre-Rollout Steps

The HealthShare HC Application Support/Operations team performs the following pre-rollout steps:

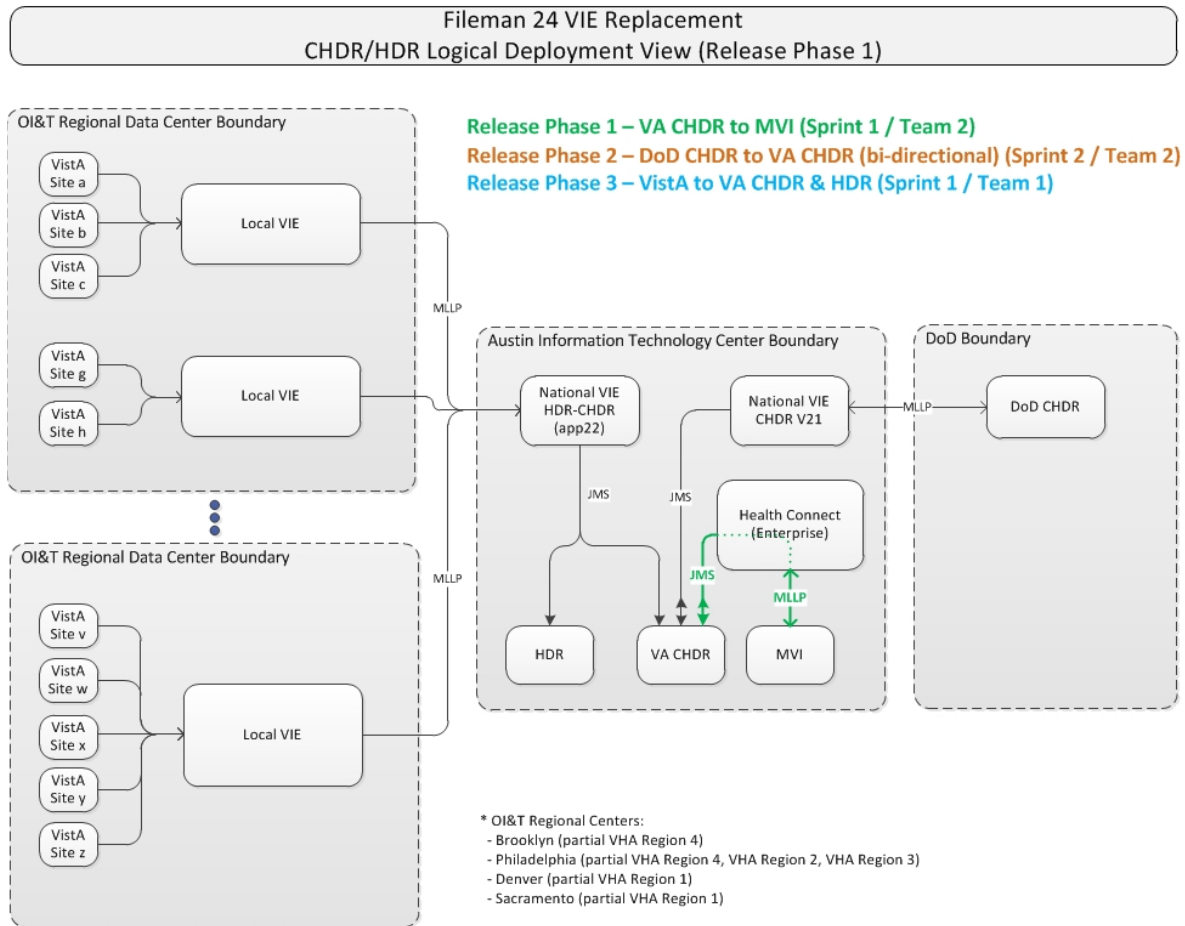
1. Submit firewall requests to ensure connectivity in production:
 - a. From VistA sites to HC Regional instances
 - b. From MVI to HC Enterprise
 - c. From HC Enterprise to MVI
 - d. From HC Enterprise to VA CHDR
 - e. From HC Enterprise to HDR
 - f. From HC Enterprise to DoD CHDR
 - g. From DoD CHDR to HC Enterprise
2. Submit IP/Port combinations to HDR Operations for addition to the whitelist.
3. Perform line-of-site testing for each of the sub-items in step 1 once the network team indicates the firewall configurations have been completed, and HDR team indicates completion of whitelist entries.
4. Execute the following Structured Query Language (SQL) statement in the Enterprise and each Regional namespace before deploying the Ensemble files to ensure the deployment won't overwrite or remove the existing settings:
update Ens_Config.DefaultSettings set Deployable=0
5. Install the HDR-CHDR production files onto the Enterprise HC Instance. All Inbound Services and Outbound Operations will be disabled.
6. Install the appropriate production files on each of the Regional HC instances. All Inbound Services and Outbound Operations will be enabled.
7. Repeat the SQL statement in the Enterprise and each Regional namespace after deploying the Ensemble files:

update Ens_Config.DefaultSettings set Deployable=0

3.2 Deployment of Phase 1

This deployment phase includes message flows between VA CHDR and MVI, as depicted in the interim deployment diagram in [Figure 2](#).

Figure 2: Release Phase 1



Implementation of Phase 1 includes the following steps:

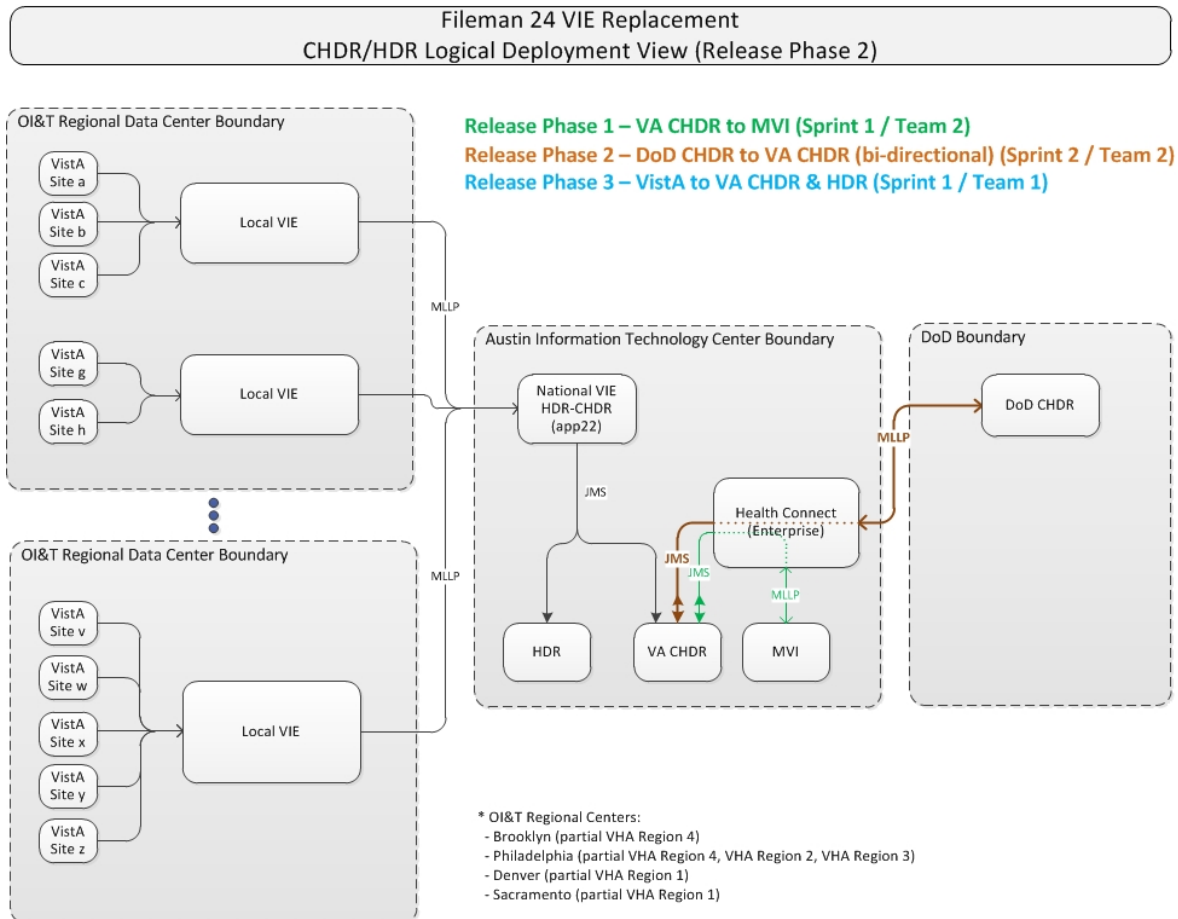
1. The MVI Operations team will disable its logical link to National VIE (IEF APP24).
2. The HC Operations team will enable the Inbound Service (**From_MVI_CHDR_7803**) to receive messages from MVI.
3. The MVI Operations team will connect its logical link to the Enterprise HC and enable it. The Internet Protocol (IP) information will be communicated to the MVI team securely and separately from this document.
4. The Health Connect Operations team will enable the Outbound Operation (**To_VACHDR_MVIJMSQueue**) on the Enterprise HC to push messages to the VA CHDR Java Message Service (JMS) Queue **DeliveryService.inbound**.
5. The VA CHDR team will confirm receipt and successful processing of messages.

6. The VIE Operations team will configure the National VIE (IEF APP24) to stop pulling from the VA CHDR queue **DeliveryService.inbound**.
7. The VIE Operations team will ensure all messages are processed and none are queued.
8. The HC Operations team will enable the Inbound Service (**From_VACHDR_MVIJMSQueue**) on the Enterprise HC to pull messages from the VA CHDR JMS Queue **DeliveryService.outbound**.
9. The HC Operations team will enable the Outbound Operation (**To_MVI_VACHDR_5000**) on the Enterprise HC to send messages to MVI.
10. The MVI Operations team will validate receipt of processing of messages from VA CHDR.
11. The HC Operations team will confirm bidirectional messaging.
12. The VA CHDR team will look for error codes in audit logs.
13. The AITC WebLogic Admin will validate that there are no error messages.
14. If messaging is successful, continue monitoring, and if not, will work with program management to determine go/no-go next steps.

3.3 Deployment of Phase 2

This deployment phase includes message flows between VA CHDR and DoD CHDR, as depicted in the interim deployment diagram in [Figure 3](#).

Figure 3: Release Phase 2



Implementation of Phase 2 includes the following steps:

From DoD to VA

1. The DoD Operations team will disable its logical link to the National VIE (CHDR V21).
2. The VIE Operations team will confirm the queue is empty.
3. The HC Operations team will enable the Inbound Service (**From_DoDCHDR_VACHDR_27315**) to receive messages from DoD CHDR.
4. The DoD Operations team will repoint its logical link to the Enterprise HC instance. The IP information will be communicated to the DoD team securely and separately from this document.

5. The HC Operations team will enable the Outbound Operation (**To_VACHDR_DODCHDRJMSQueue**) to push messages to the VA CHDR JMS queue **jms.CHDR.DoDtoVAMessageQueue**.
6. The VA CHDR team will validate receipt and processing of messages from DoD CHDR.

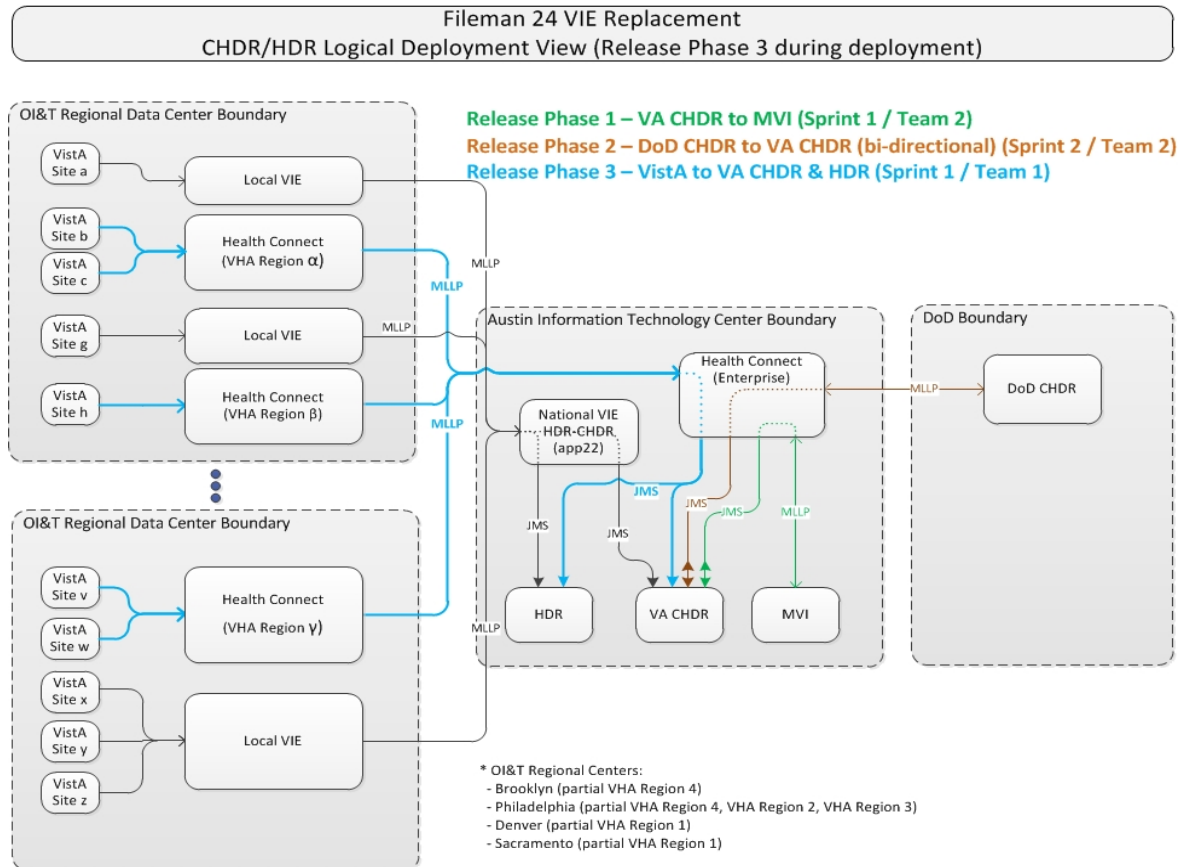
From VA to DoD

7. The VIE Operations team will disable its pull from the VA CHDR queue **jms.CHDR.VAtoDoDMessageQueue**.
8. The VIE Operations team will disable its logical link to the DoD CHDR system.
9. The HC Operations team will enable the Outbound Operation (**To_DoDCHDR_VACHDR_27314**) to send messages to the DoD CHDR system.
10. The HC Operations team will enable the Inbound Service (**From_VACHDR_DoDCHDRJMSQueue**) to pull messages from the VA CHDR JMS queue **jms.CHDR.VAtoDoDMessageQueue**.
11. The DoD CHDR team will validate receipt and processing of messages from VA CHDR.
12. The HC Operations team will confirm bidirectional messaging.
13. If messaging is successful, continue monitoring, and if not, will work with program management to determine go/no-go next steps.

3.4 Deployment of Phase 3

This deployment phase includes messages from VistA sites to HDR and VA CHDR, including Prescriptions, Allergies, Labs, and Vitals (all HDR Only), as depicted in [Figure 4](#).

Figure 4: Release Phase 3



Implementation of Phase 3 consists of the following steps:

1. The HC Operations team will ensure the Inbound Service (**From_VISTA_HDRCHDR_7805**), and the Outbound Operation (**To_HDRCHDREnt_7801**) on the Regional HC(s) related to the IOC sites are enabled.
2. The HC Operations team will ensure the Inbound Service (**From_VISTA_HDRCHDR_7801**) on the Enterprise HC from the Regional HC is enabled.
3. The HC Operations team will enable the Outbound Operations on the Enterprise HC to the HDR JMS queues as described in [Table 2](#).

Table 2: Outbound Operations for HDR Queues

| Enterprise HC Outbound Operation | HDR JMS Queue |
|---|--------------------------------|
| To_HDRAllergiesQueue | jms/cds/AllergiesQueue |
| To_HDRAllergyAssessmentQueue | jms/cds/AllergyAssessmentQueue |
| To_HDRPharmacyPartialQueue | jms/cds/PharmacyPartialQueue |
| To_HDRPharmacyFullQueue | jms/cds/PharmacyFullQueue |
| To_HDRPharmacyRefillQueue | jms/cds/PharmacyRefillQueue |
| To_HDRVitalsQueue | jms/cds/VitalsQueue |
| To_HDRLabQueue | jms/cds/LabQueue |

4. The HC Operations team will enable the Outbound Operation (**To_VACHDR_VISTAJMSQueue**) on the Enterprise HC to the VA CHDR JMS queue **jms.CHDR.VistAtoCHDRMessageQueue**.
5. IOC Sites (Atlanta, GA and Mountain Home, TN) will redirect each of their Logical links (VDEFVIE1-4) to the Regional HC for their site. Specific IP Address and Port will be provided directly to the IOC Sites securely and separately from this document. The IO VistA Application support team should take screenshots of each logical link prior to making any changes should a back-out be necessary.
 - a. VDEFVIE1: Vitals Data
 - b. VDEFVIE2: Allergy Data
 - c. VDEFVIE3: Pharmacy Data
 - d. VDEFVIE4: Laboratory Data

National Rollout

6. The HC Operations team will ensure the Inbound Services (**From_VISTA_HDRCHDR_7805**) on all Regional HC(s) are enabled.
7. The HC Operations team will ensure the Outbound Operations (**To_HDRCHDREnt_7801**) on all Regional HC(s) are enabled.
8. After IOC signoff, the Health Product Support (HPS) team will release informational patch VDEF*1*15 for 72-hour application. The Infrastructure Operations VistA Applications team will hold an open conference call with all VistA sites to take a roll call and assist with the redirection of each logical link to point to the appropriate Regional HC. The IO VistA Application support team should take screenshots of each logical link prior to making any changes should a back-out be necessary.
9. The HC Operations team will confirm bidirectional messaging.
10. If messaging is successful, continue monitoring, and if not, will work with program management to determine go/no-go next steps.

3.5 Timeline

National release of all HDR/CHDR message flows will be done in three phases:

1. Release Phase 1: VA CHDR and MVI
2. Release Phase 2: VA CHDR and DoD CHDR
3. Release Phase 3: VistA to HDR and VA CHDR

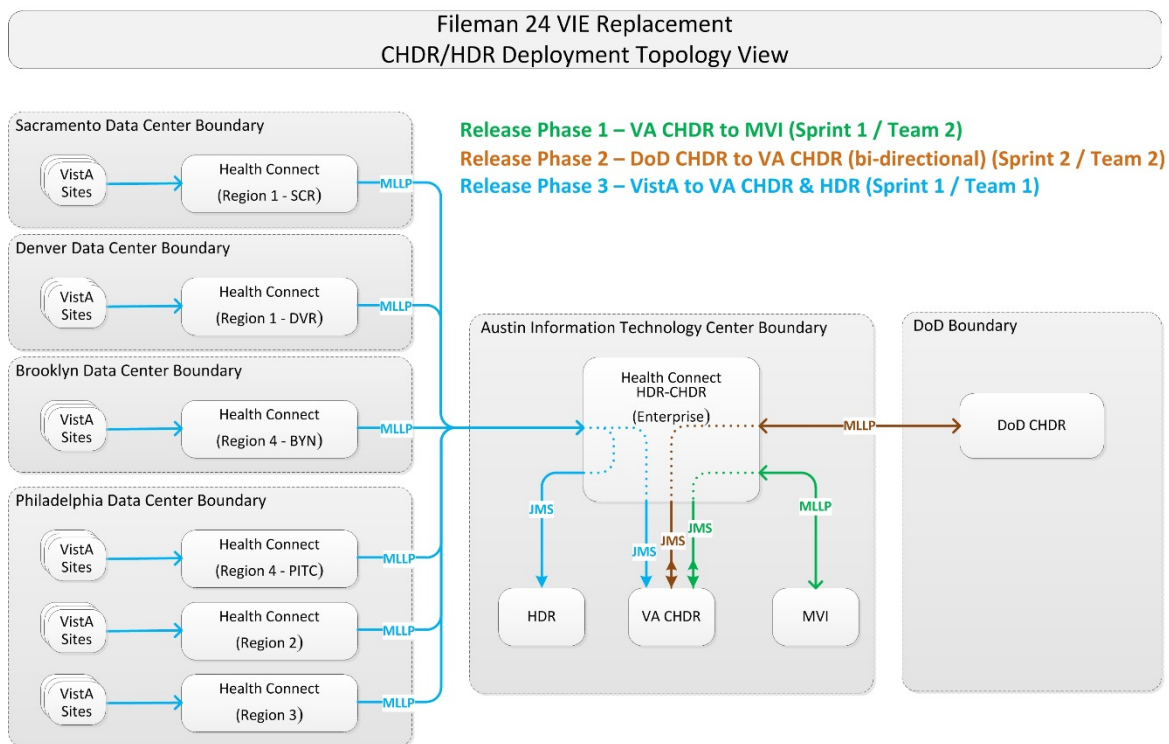
3.6 Site Readiness Assessment

There are no preparatory steps at the VA medical center (VAMC) locations for the deployment of the HDR-CHDR messaging flows.

3.6.1 Deployment Topology (Targeted Architecture)

[Figure 5](#) depicts the final summary level targeted architecture after all deployment has been completed.

Figure 5: Deployment Topology View



3.6.2 Site Information (Locations, Deployment Recipients)

IOC sites:

- Atlanta, GA (Station # 508)
- Mountain Home, TN (Station # 621)

The HealthShare HC software has already been installed in production. There is one Enterprise instance, and six Regional instances:

- Enterprise – Austin Information Technology Center (AITC)
- Region 1 - Sacramento
- Region 1 - Denver
- Region 2 - Philadelphia
- Region 3 - Philadelphia
- Region 4 - Philadelphia
- Region 4 - Brooklyn

Production Operations staff will install the configurations specific to the HDR-CHDR message flows in each of these HC instances.

The MVI, HDR, VA CHDR, and DoD CHDR production instances will be reconfigured in their current locations to connect to the HC Enterprise production instance. No software changes are required in any of these systems.

Each VistA location that issues prescriptions or records patient allergy, vitals, or lab information will need to perform a reconfiguration of the IP address and Port for the HL7 Logical Link (#870) entries **VDEFVIE1**, **VDEFVIE2**, **VDEFVIE3**, or **VDEFVIE4**. No software changes are required.

3.6.3 Site Preparation

[Table 3](#) describes preparation required by the site prior to deployment.

Table 3: Site Preparation

| Site/Other | Problem / Change Needed | Features to Adapt/Modify to New Product | Actions/Steps | Owner |
|--|--|---|------------------------------------|--------------------------|
| HealthShare HC Enterprise and Regional Instances | Install production configurations for HDR-CHDR message flows | Productions | Install Production definition file | HC Production Operations |

3.7 Resources

The following support resources will be required during the transition of HDR-CHDR messages from VIE to HC:

- HC Support Operations Team
- VistA HL7 Support, VistA Administrators for each site
- HDR Support Staff
- VA CHDR Support Staff
- DoD CHDR Support Staff
- MVI Support Staff

3.7.1 Facility Specifics

This section does *not* apply to HL7 HC and HDR-CHDR. Virtual meetings can be used to assist sites as needed.

3.7.2 Hardware

There are no special hardware requirements for sites using HL7 HC and HDR-CHDR.

3.7.3 Software

The HC/HDR-CHDR software deployment is made up of the following (see [Table 4](#) for more detail):

HDR-CHDR HC Production Extensible Mark-up Language (XML) files will be placed under configuration control in Rational Configuration Management (CM).

3.7.4 Communications

Communications and notification activities include:

- The VistA administrators will be notified in advance via their monthly community call to introduce them to the strategy and plans for the HDR-CHDR message conversion.
- Patch VDEF*1*15 will be released from Forum to all VistA sites via informational patch with implementation to be followed with **72** hours of release. The patch will contain the steps necessary for the VistA administrator to connect to the appropriate HC Regional instance. The information needed to reconfigure the logical links will be provided during a Skype call. Changes are to be made during the Skype call and are only to be performed when directed to do so by the change leader.
- A “roll-call” Skype meeting will be held at IOC and during national release to assist sites with redirecting the logical link and checking compliance.

4 Installation

4.1 Platform Installation and Preparation

Platform installation and preparation steps are outlined in the sections below.

4.2 Download and Import Files

Definitions for HDR-CHDR HC productions are available under configuration management in the VA Enterprise Rational CM instance. The files in [Table 4](#) should be downloaded to the respective HC server. Each file contains specific definitions for each region and the enterprise instance, so they *must* be placed on the appropriate server for deployment.

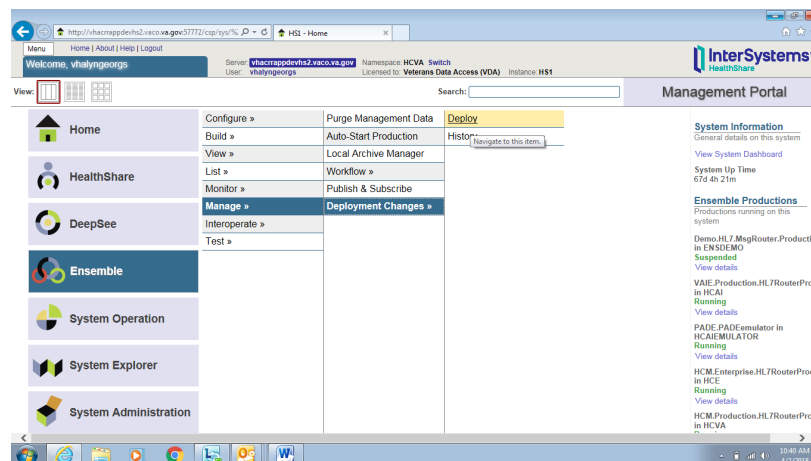
Table 4: Download and Import Files

| HC Instance | Deployment XML Filename |
|----------------------------|--|
| HC Region 1 - Sacramento | Export_HCM_Production_HDR-CHDR_Prod_R1SAC.xml |
| HC Region 1 – Denver | Export_HCM_Production_HDR-CHDR_Prod_R1DEN.xml |
| HC Region 2 | Export_HCM_Production_HDR-CHDR_Prod_R2.xml |
| HC Region 3 | Export_HCM_Production_HDR-CHDR_Prod_R3.xml |
| HC Region 4 – Brooklyn | Export_HCM_Production_HDR-CHDR_Prod_R4BKL.xml |
| HC Region 4 – Philadelphia | Export_HCM_Production_HDR-CHDR_Prod_R4PHL.xml |
| HC Enterprise | Export_HCM_Production_HDR-CHDR_Prod_Enterprise.xml |

1. As an administrator on the specific HC instance, access the **Deploy** option:

Management Portal (MP) → Ensemble → Manage → Deployment Changes → Deploy

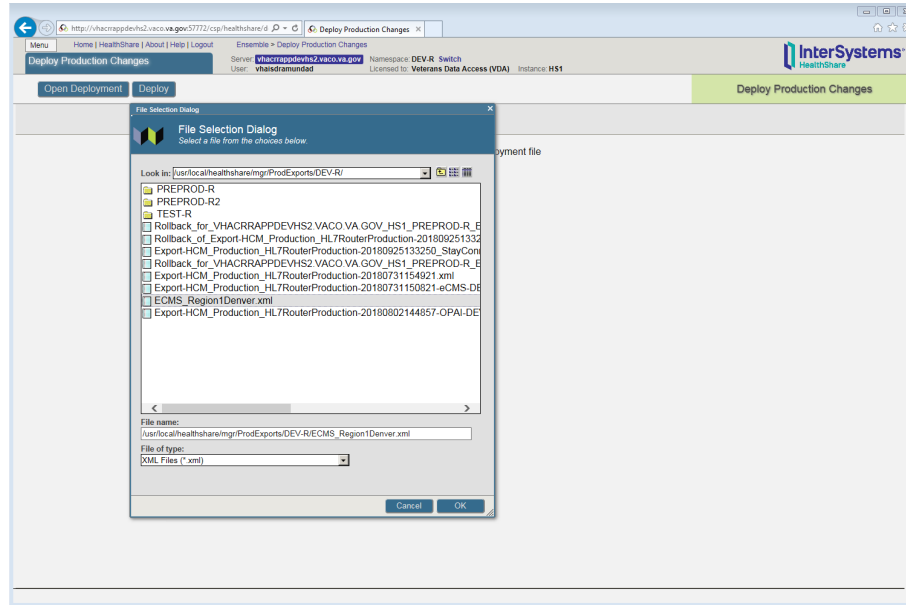
Figure 6: Management Portal (MP): Deployment Options



2. Select the HDR-CHDR deployment file, downloaded earlier in Section 4.2, for the correct HC instance. In this example [Figure 7](#), the file name is for eCMS but use the correct filename from [Table 4](#):

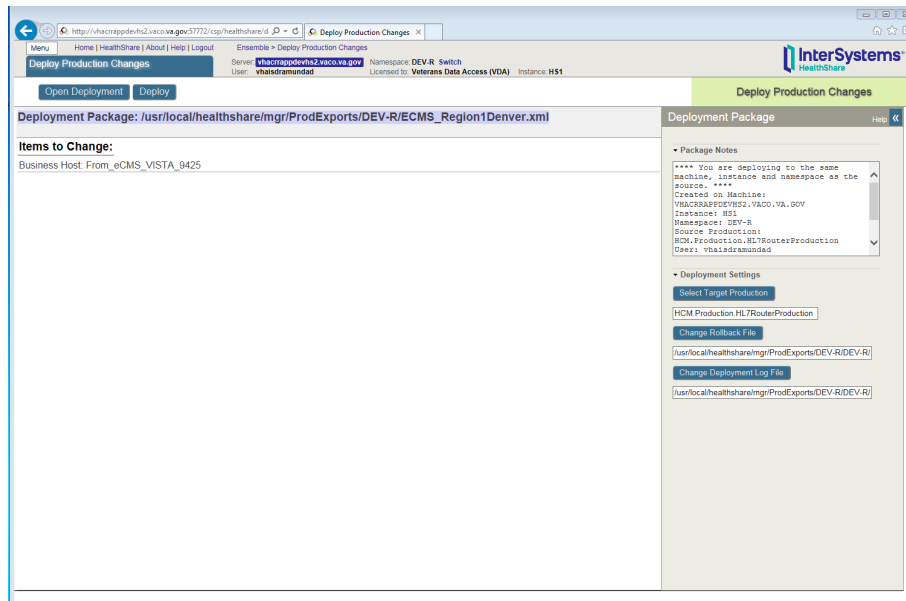
Open Deployment → Select Deployment file → OK

Figure 7: Selecting Deployment File: HDR-CHDR



3. When you select **OK** in [Figure 7](#), the “Deploy Production Changes” screen is displayed, as shown in [Figure 8](#):

Figure 8: Deploy Production Changes Screen: HDR-CHDR



4.3 Database Creation

There are no database creation steps for this deployment.

4.4 Installation Scripts

There are no installation scripts for this deployment.

4.5 Cron Scripts

Cron Scripts do *not* apply to the HC/HDR-CHDR deployment.

4.6 Access Requirements and Skills Needed for the Installation

The following access requirements and skills are needed for installation:

- A user with HC administrative privileges on the Enterprise and Regional production instances will be required to deploy and configure the HDR-CHDR productions.
- At each VistA site, a user with HL7 Menu privileges in production will be required to reconfigure the VDEFVIE1, VDEFVIE2, VDEFVIE3, and VDEFVIE4 Logical links.

4.7 Installation Procedure

No software is being deployed.

4.8 Installation Verification Procedure

Not applicable.

4.9 System Configuration

System configuration is described in sections [4.1](#) and [4.2](#).

4.10 Database Tuning

No database tuning is expected or required for HDR-CHDR on HL7 HC.

5 Back-Out Procedure

The back-out procedure documented in this section is basically the reverse of the deployment procedure. With a rapid roll-out strategy, a significant change to the messaging environment will occur quickly, so a back-out should be a last resort.

5.1 Back-Out Strategy

The only back-out option is to “un-deploy” HC and re-point MVI, VA CHDR, DoD CHDR, and VistA systems to the VIE last known software configuration and platform settings. This process will identify unsent HDR-CHDR messages on HC and resend to their target systems.

The configuration and operational support will be in place as the VIE platform will still be in production, providing message routing for other applications. Coordination with each site and the operations teams for server configuration and VistA Logical link update will be key to a successful back-out.

5.2 Back-Out Considerations

VIE (for remaining supported applications) and HC (for migrated message flows) will be running in parallel. Since both will be running before and after the deployment, a return to VIE would include reactivating the VIE/HDR-CHDR message flows.

The re-pointing of the VA CHDR, DoD CHDR and MVI servers and VistA systems will need to be coordinated with site point of contact (POC), VIE, and HC operations.

5.2.1 Load Testing

Load testing is described in a separate document HC HDR-CHDR Performance Test Plan.

5.2.2 User Acceptance Testing

Not applicable.

5.3 Back-Out Criteria

The primary criteria for a back-out decision will be any detrimental impact to patient care. If the deployed software and configuration is irreparably causing loss or damage to HDR-CHDR messages, a back-out may be preferable and timelier than repair to existing configurations. However, this is extremely unlikely given the extensive testing prior to deployment in production.

5.4 Back-Out Risks

Primary risks for a deployment back-out are the loss or corruption of messages during the back-out procedure. Risks also include impact to the program schedule and budget for re-work and re-deployment.

5.5 Authority for Back-Out

The decision to execute the back-out procedure may only be made by:

- Ken Leonard (FM24 Project Manager)
- Annette Parsons (HC Operations Project Manager)

5.6 Back-Out Tasks

The steps for the back out tasks are below. It is possible that one, two, or all three of the messages flows needs to be backed out, so each procedure has been listed separately below. Depending on which message flow(s) is/are at issue, the appropriate set of steps below should be followed.

5.6.1 VistA to HDR-CHDR Messages

The following steps should be followed to return VistA to HDR-CHDR messages to their previous state.

1. The HC Operations team will identify any messages that were not successfully passed to their destination.
2. The VIE Operations team will re-activate configurations to push HL7 messages to both HDR and VA CHDR.
3. The VIE Operations team will re-activate configurations to accept messages from local VIE instances into the National VIE instance, and all local VIE instance configurations to accept messages from VistA sites.
4. All VistA sites will need to revert their logical links for VDEFVIE1, VDEFVIE2, VDEFVIE3, and VDEFVIE4 to point to the prior VIE local instance.
5. Once all VistA sites have verified the back-out, HC Operations will disable Inbound Services that accept VistA messages for HDR-CHDR on all Regional instances (**From_VISTA_HDRCHDR_7805**).
6. The HC Operations team will work with VistA sites to re-send any messages identified in Step 1.

5.6.2 MVI to VA CHDR Messages

The following steps should be followed to return MVI to VA CHDR messages to their previous state.

1. The MVI Operations team will disable its logical link to HC Enterprise HDR-CHDR.
2. The HC Operations team will disable the Inbound Service (**From_MVI_CHDR_7803**).
3. The HC Operations team will disable the Outbound Operation (**To_VACHDR_MVIJMSQueue**) on HC Enterprise.
4. The HC Operations team will disable the Inbound Service (**From_VACHDR_MVIJMSQueue**) on HC Enterprise.

5. The HC Operations team will disable the Outbound Operation (**To_MVI_VACHDR_5000**).
6. The VIE Operations team will configure National VIE (CHDR V21) to start pulling from the VA CHDR queue **DeliveryService.inbound**.
7. The MVI Operations team will reconfigure its logical link to the National VIE (IEF APP24) and enable it.

5.6.3 VA CHDR and DoD CHDR

The following steps should be followed to return messages between VA CHDR and DoD CHDR to their previous state.

1. The HC Operations team will disable the Inbound Service (**From_VACHDR_DoDCHDRJMSQueue**) to stop pulling messages from VA CHDR.
2. The DoD Operations team will disable its logical link to the HC Enterprise instance.
3. The HC Operations team will disable the Outbound Operation (**To_DoDCHDR_VACHDR_27314**) to stop sending messages to DoD.
4. The HC Operations team will disable the Outbound Operation (**To_VACHDR_DoDCHDRJMSQueue**) to stop pushing DoD messages to CHDR.
5. The VIE Operations team will enable its logical link to the DoD CHDR system.
6. The VIE Operations team will enable its pull from the VA CHDR queue **jms.CHDR.VAtoDoDMessageQueue**.
7. The DoD Operations team will reconfigure its logical link to send to National VIE (CHDR V21) and enable it.

5.7 Back-Out Verification Procedure

The HC Operations team will verify that there are no queued transactions in the HC Enterprise or HC Regional instances. If so, they will work with the sending site to resend the message through VIE.

The VIE Operations team will verify that all messages flows are operational and passing messages.

6 Rollback Procedure

Due to the nature of the deployment strategy and messaging architecture, a roll-back of processed data is unrealistic and unnecessary. Since the source and target systems do *not* change during the deployment, messages will be processed after the deployment the same way as prior to deployment. Therefore, even if the messaging infrastructure is changed back, no roll-back of data or messages will be required.

7 Appendices

7.1 Appendix A—HC Production Namespace Configuration and Deployment



NOTE: Sections [7.1.1](#) and [7.1.2](#) are included for completeness, but should *not* be necessary, since they should already have been completed at this point by previous FileMan 24 HC application installs.

7.1.1 Creating a New Namespace

To create a new namespace in HC Production, do the following:

1. Open the following:
System Administration → Configuration → System Configuration → Namespace
2. Click **Create New Namespace**.
3. Enter the Name of the namespace **HCM**.
4. Create new database.
5. Enter the name of your database **HCM**.
6. Click on **browse** next to **Create your directory** and create a folder with the name of your database **HCM**.
7. Click **Next** on the bottom of the screen; use the default settings or the ones recommended by the site administrator.
8. Click **Next** and select the default.
9. Click **Finish**.
10. Click on the dropdown **Select an existing database for Routines** and select the database folder created in [Step 6](#) **HCM**.
11. Click **Save**.
12. Namespace **HCM** will be added to the list of namespaces.

7.1.2 Deploying a Health Connect Production

To deploy a HC Production, do the following:

1. Copy the deployment file (e.g., **Export-HCM_Production_HL7RouterProduction-Deploy1.0.xml**) to a path and directory in HealthShare. For example:
/tmp/
2. On the “Health Connect” page, click on the switch that brings a window of all the namespaces.
3. Click on **HCM**. Verify the namespace value is now changed to **HCM**.

4. Click on **Ensemble** → **Manage** → **Deployment changes** → **Deploy**.
5. Click on **Open Deployment** and select the directory in [Step 1](#).
6. Select the Deployment file (e.g., **Export-HCM_Production_HL7RouterProduction-Deploy1.0.xml**).
7. The “Deployment Production Changes” screen will display the artifacts that were brought in as part of the **xml** file.
8. Click on the **Deploy** tab.
9. Deployment will begin. This will take a few minutes.
10. Go to the following:

Ensemble → List → Select HCM.Production.HL7RouterProduction

7.2 Appendix B—Starting and Stopping a HC Production



REF: For details on what occurs when you start or stop a production, see the InterSystems book *Managing Ensemble Productions*.

7.2.1 Starting Health Connect Production

To **start** a HC Production, do the following:

1. Log in to the **Management Portal**.
2. Change to the appropriate namespace.
3. Go to the “Production List” page:

Ensemble → List → Productions

4. Find the **production** in the list and click it.
5. Click the **Open** button at the top of the list.
6. On the resulting “Production Configuration” page, click **Start** to display a dialog box.
7. In the dialog box, click **Open**. The system displays a new dialog box with the name of the **production**, its startup status, and any associated messages.



NOTE: The system may also open Terminal windows. Do *not* close these windows. Click the **OK** button when it is displayed in the dialog box.

7.2.2 Stopping HC Production

To **stop** a HC Production, do the following:



NOTE: During this process ensure the HC operation is **disabled** before stopping it.

1. Log in to the HealthShare **Management Portal**.
2. Change to the appropriate namespace.
3. Go to the “Production List” page:
Ensemble → List → Productions
4. Find the **production** in the list and click it.
5. Click the **Open** button at the top of the list.
6. On the resulting “Production Configuration” page, click **Stop** to display a dialog box.
7. In the dialog box, click **OK**. The system displays a new dialog box with the following:
 - Name of the production.
 - Shutdown status.
 - Any associated messages.



NOTE: The system may also open Terminal windows. Do *not* close these windows. Click the **OK** button when it is displayed in the dialog box.