InterSystems Health Connect (HC) / Remote Order Entry System (ROES)

Deployment, Installation, Back-Out, and Rollback Guide



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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). The scope of this document is messages from the Remote Order Entry System (ROES) to Veterans Information System Technology Architecture (VistA).

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.

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1.3 Constraints

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

2 Roles and Responsibilities

The following table outlines the roles and responsibilities:

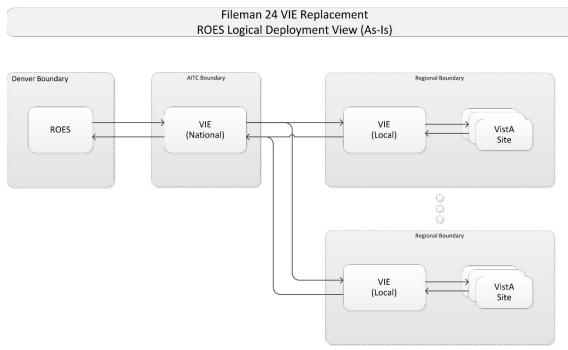
Table 1: Roles and Responsibilities

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	Test for operational readiness.	
	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 ROES messages:

Figure 1: Current VIE Architecture for ROES



The ROES message migration will be implemented in a one-time deployment of the ROES redirection to Health Connect Enterprise, and a rapid deployment of VistA site TIU acknowledgements redirection to Health Connect Regional.

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 HC Regional Instances to HC Enterprise
 - c. From ROES Enterprise to HC Enterprise
- 2. 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.
- 3. 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

- 4. Install the ROES production files onto the Enterprise HC Instance. All Inbound Services and Outbound Operations will be disabled.
- 5. Install the appropriate production files on each of the Regional HC instances. All Inbound Services and Outbound Operations will be enabled.
- 6. 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 Steps

The first step of the deployment will be for the ROES team to redirect outbound messages (to VistA sites) from VIE, to the Health Connect Enterprise as depicted in <u>Figure 2</u>.

Figure 2: Deployment Step 1 Fileman 24 VIE Replacement ROES Logical Deployment View (Step 1) Denver Boundary VIF (Local) VIF ROES VistA (National) Site Health Connect (Regional) Health Connect (Enterprise) Regional Boundary VIE (Local) VistA Site Health Connect

To implement the flow of messages from ROES to VistA sites:

- 1. Enable the HC Enterprise Inbound Service (From_ROES_VISTA_7650) to accept messages from the enterprise ROES system.
- 2. The ROES team will update the logical link currently pointing to VIE, and redirect it to the Health Connect Enterprise instance. IP and port will be provided separately.
- 3. Enable the HC Enterprise Outbound Operations to send messages to the Regional Health Connect instances:

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- a. To VISTAR1DVR ROES 7651
- b. To VISTAR1SAC ROES 7651

(Regional)

- c. To VISTAR2 ROES 7651
- d. To_VISTAR3_ROES_7651
- e. To VISTAR4BYN ROES 7651
- f. To_VISTAR4PITC_ROES_7651
- 4. Enable the HC Regional Inbound Service From ROES VISTA 7651 for each region.
- 5. The ROES and Health Connect teams will monitor message flows to ensure delivery and responses.

At this point, messages flowing from ROES to VistA sites are flowing through Health Connect, and no longer using the VIE network. The next major step will be to release the VistA patch TIU*1*325, which will be an informational patch to redirect the VistA Logical Link (TIUACKROES) to point to the HC Regional instance instead of VIE. During the period when some VistA sites have converted and others have not, VistA acknowledgements of ROES messages will be flowing through both VIE and HC as depicted in Figure 3.

Figure 3: Deployment Step 2

Fileman 24 VIE Replacement ROES Logical Deployment View (Step 2) AITC Boundary Regional Boundary Denver Boundary VIE (Local) VIE ROES VistA (National) Health Connect (Regional) Health Connect (Enterprise) Regional Boundary VistA (Local) Site VistA Health Connect Site (Regional)

To implement changes for the message flows from VistA sites to ROES:

- 1. On each HC Regional instance, enable the Inbound Service From_VISTA_ROES_7652 to enable receiving of acknowledgement of messages from VistA.
- On each HC Regional instance, enable the Outbound Operation
 To_ROESEnterprise_7653 to send acknowledgement messages to the HC Enterprise instance.

- 3. On the HC Enterprise instance, enable the Inbound Service From_VISTA_ROES_7653 to receive acknowledge messages from VistA forwarded from the HC Regional instances.
- 4. On the HC Enterprise instance, enable the Outbound Operation To_ROES_5000 to send acknowledgement messages to ROES.
- 5. On each applicable VistA site, change the TIUACKROES logical link to point to the appropriate Regional Health Connect instance. Sites will be provided with the logical link information separately.
- 6. The ROES and Health Connect teams will monitor message flows to ensure delivery and responses.

Once it is confirmed that all VistA sites have redirected their ROES acknowledgement messages to their respective HC Regional instance, the VIE Operations team will verify that no messages are left queued for ROES messages in either direction. If so, they will work with any sites originating queued messages to re-send or otherwise resolve the issue. The VIE Operations team will then disable any ROES related message flows in all VIE instances.

3.3 Timeline

The estimated date for national release of ROES is prior to June 21, 2019.

3.4 Site Readiness Assessment

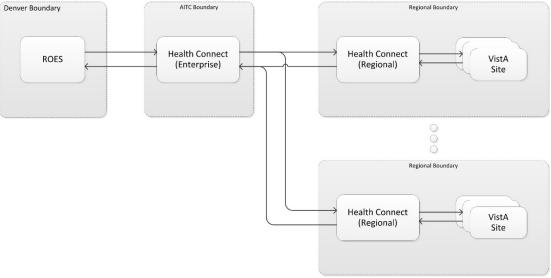
There are no preparatory steps at the VA medical center (VAMC) locations for the deployment of the ROES messaging flows.

3.4.1 Deployment Topology (Targeted Architecture)

<u>Figure 4</u> depicts the final summary level targeted architecture after all deployment has been completed.

Figure 4: Deployment Topology View

Fileman 24 VIE Replacement
ROES Logical Deployment View (To-Be)



3.4.2 Site Information (Locations, Deployment Recipients)

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 ROES message flows in each of these HC instances.

The ROES production instance will be reconfigured in its current location to connect to the HC Enterprise production instance. No software changes are required in ROES.

Each VistA location that communicates with ROES will need to perform a reconfiguration of the IP address and Port for the HL7 Logical Link (#870) entry TIUACKROES. No software changes are required.

3.4.3 Site Preparation

<u>Table 2</u> describes preparation required by the site prior to deployment.

Table 2: 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 ROES message flows	Productions	Install Production definition file	HC Production Operations

3.5 Resources

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

- HC Support Operations Team
- VistA HL7 Support, VistA Administrators for each site
- ROES Support Staff

3.5.1 Facility Specifics

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

3.5.2 Hardware

There are no special hardware requirements for sites using HL7 HC and ROES.

3.5.3 Software

The HC/ROES software deployment is made up of the following:

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

3.5.4 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 ROES message conversion.
- Patch TIU*1*325 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 information 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 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 ROES HC productions are available under configuration management in the VA Enterprise Rational CM instance. The files in <u>Table 3</u> 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.

HC Instance	Deployment XML Filename	
HC Region 1 – Sacramento	Export_HCM_Production_ROES_Prod_R1SAC.xml	
HC Region 1 – Denver	Export_HCM_Production_ROES_Prod_R1DVR.xml	
HC Region 2	Export_HCM_Production_ROES_Prod_R2.xml	
HC Region 3	Export_HCM_Production_ROES_Prod_R3.xml	
HC Region 4 – Brooklyn	Export_HCM_Production_ROES_Prod_R4BYN.xml	
HC Region 4 – Philadelphia	Export_HCM_Production_ROES_Prod_R4PITC.xml	
HC Enterprise	Export_HCM_Production_ROES_Prod_Enterprise.xml	

Table 3: Download and Import Files

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

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

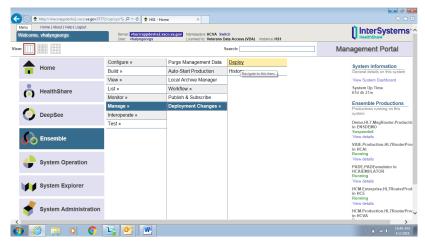
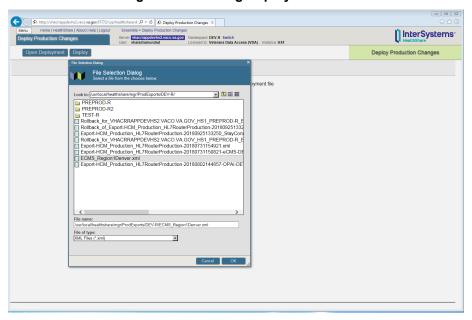


Figure 5: Management Portal (MP): Deployment Options

2. Select the ROES deployment file, downloaded earlier in Section 4.2, for the correct HC instance. In this example <u>Figure 6</u>, the file name is for eCMS but use the correct filename from <u>Table 3</u>:

Open Deployment \rightarrow Select Deployment file \rightarrow OK





3. When you select **OK** in <u>Figure 6</u>, the "Deploy Production Changes" screen is displayed, as shown in <u>Figure 7</u>:

Complete | Section | Secti

Figure 7: Deploy Production Changes Screen: ROES

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/ROES 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 ROES productions.
- At each VistA site, a user with HL7 Menu privileges in production will be required to reconfigure the TIUACKROES logical link.

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 ROES 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 repoint ROES and VistAs to the VIE last known software configuration and platform settings. This process will identify unsent ROES 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/ROES message flows.

The repointing of the ROES and VistA systems will need to be coordinated with site point of contact (POC), VIE, and HC operations.

5.2.1 Load Testing

Not applicable.

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 ROES 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.

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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 following steps should be followed to return ROES messages to their previous state.

- 1. The VIE Operations team will re-activate configurations to process HL7 messages to between ROES and VistA.
- 2. The ROES Operations team will reconfigure outbound messages to VistA sites to the previous configuration for VIE National.
- 3. All VistA sites will need to revert their logical link for TIUACKROES to point to the prior VIE local instance.
- 4. Once all VistA sites have verified the back-out, HC Operations will disable Inbound Services that accept VistA messages for ROES on all Regional instances (From_VISTA_ROES_7652).
- 5. The HC Operations team will disable the Inbound Service that accepts messages from ROES (From_ROES_VISTA_7651).

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.

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7 Appendices

7.1 Appendix A – HC Production Namespace Configuration and Deployment



NOTE: Sections <u>7.1.1</u> and <u>7.1.2</u> 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 <u>Step 6</u> 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:

 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 \rightarrow Manage \rightarrow Deployment changes \rightarrow Deploy.
- 5. Click on **Open Deployment** and select the directory in <u>Step 1</u>.
- 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 \rightarrow List \rightarrow 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 \rightarrow List \rightarrow 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.

7.3 Appendix C – Redirection of Logical Links in VistA

The following steps will have to be performed in the VistA HL7 application for TIUACKROES outbound link entry:

1. Stop the **TIUACKROES** Logical Link using the HL7 Menu option **Start/Stop Links**. Figure 8: HL7 Main Menu Stop Logical Link is an example:

Figure 8: HL7 Main Menu Stop Logical Link

```
Select OPTION NAME: HL7 MAIN MENU HL MAIN MENU
                                                        HL7 Main Menu
          Event monitoring menu ...
          Systems Link Monitor
          Filer and Link Management Options ... <
          Message Management Options ...
          Interface Developer Options ...
          Site Parameter Edit
          HL7 (Optimized) MAIN MENU ...
Select HL7 Main Menu <TEST ACCOUNT> Option: FILER AND LINK Management
                                              Options
          Systems Link Monitor
          Monitor, Start, Stop Filers
TCP Link Manager Start/Stop
Stop All Messaging Background Processes
   FL
   SA
          Restart/Start All Links and Filers
          Default Filers Startup
  DF
   SL
          Start/Stop Links
  PΙ
          Ping (TCP Only)
   ED
          Link Edit
          Link Errors ...
Select Filer and Link Management Options <TEST ACCOUNT> Option: SL
This option is used to launch the lower level protocol for the
appropriate device. Please select the node with which you want
to communicate
Select HL LOGICAL LINK NODE: TIUACKROES
The LLP was last started on MAR 07, 2019 12:17:34.
Okay to shut down this job? YES
The job for the TIUACKROES Lower Level Protocol will be shut down.
```

- 2. Reset the **TIUACKROES Logical Link Queue Count** (as instructed by Enterprise HL7 Support team on the roll call).
- 3. Edit the **TIUACKROES** Logical Link with the Link Edit HL7 menu option, as shown in Figure 9: Edit TIUACKROES Logical Link.

Figure 9: Edit TIUACKROES Logical Link

```
SM
              Systems Link Monitor
             Monitor, Start, Stop Filers
TCP Link Manager Start/Stop
Stop All Messaging Background Processes
Restart/Start All Links and Filers
   FL
LM
    SA
             Default Filers Startup
Start/Stop Links
Ping (TCP Only)
Link Edit
    DF
    SL
    ΡI
    ED
              Link Errors ...
Select HL LOGICAL LINK NODE:
                                            TIUACKROES
 Step 3. On the first screen, change AUTOSTART to Enabled.
Next, move the cursor to the field LLP TYPE and press Enter.
 This will present the second screen (as shown is step 5).
 Step 4. On the first screen, edit the DNS DOMAIN field as
 instructed below.
                                 HL7 LOGICAL LINK
                      NODE: TIUACKROES
                                                                         DESCRIPTION:
            INSTITUTION:
        MAILMAN DOMAIN:
               AUTOSTART: Disabled
             QUEUE SIZE: 10
                LLP TYPE: TCP
              DNS DOMAIN: XXXX
 COMMAND:
                                                      Press <PF1>H for help
                                                                                         Insert
```

- 4. On the screen in <u>Figure 9</u>, change **AUTOSTART** to Enabled. Next, move the cursor to the field **LLP TYPE** and press Enter. This will present the second screen as shown in <u>Figure 10: Edit TCP Lower Level Parameters</u>.
- 5. On the first screen (upon return from editing lower level parameters), edit the **DNS DOMAIN** field as instructed.

Figure 10: Edit TCP Lower Level Parameters



6. Replace the existing TCP/IP address and existing TCP/IP port with the Health Connect IP address and port as shown in <u>Figure 10</u>.

Note: Please wait until further instructed to restart the logical link. To restart the logical link, use SL Start/Stop Links menu as shown in Figure 8.

Post installation instructions:

- 7. Restart the **TIUACKROES** logical link using **SL Start/Stop Links** menu as described in step 1 above.
- 8. Check/monitor the **TIUACKROES** logical link queues:
 - a. Check status (report if Open/Fail or Error) using the **SM Systems Link Monitor** menu option.
 - b. Check queue counts are the same for columns: **TO SEND** and **SENT** using the **SM Systems Link Monitor** menu option.
 - c. Check IP Address has filled in by performing a FileMan Inquiry to File #870, JL LOGICAL LINK for the TIUACKROES logical link.
- 9. Monitor **TIUACKROES** logical link using the **SM Systems Link Monitor** menu option. Report back on the call if there are any issues.