

IHS Support for HL7 Interfaces (BHL) Version 1.0

Installation Guide

July 1997

Preface

The Indian Health Service (IHS) Support for Health Level Seven (HL7) Interfaces software package (BHL) provides a way for Resource and Patient Management System (RPMS) applications to exchange health-care data with commercial off-the-shelf and other applications using the HL7 protocol. This package utilizes the Department of Veteran Affairs (VA) Decentralized Hospital Computer Program (DHCP) HL7 system. This installation guide has been written for Site Managers and other information systems personnel who will be responsible for the installation and maintenance of the BHL software package.

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Indian Health Service (IHS) Support for Health Level Seven (HL7) Interfaces Version 1.0 Installation Guide

1. Introduction

The IHS HL7 package consists of a set of routines that are installed concurrently with the DHCP HL7 Package (see section 3 for Resource Requirements). Documentation for the IHS code consists of the Installation Guide (this document) and the Technical Manual.

Please refer to the DHCP HL7 Version 1.6 User Manual, Security Guide, Developer's Manual, Installation Guide, Release Notes, and Technical Manual for additional information as required. For general information on common programming conventions, please refer to the *Users Guide to Computing*.

2. Contents of Distribution

bhl_0100.r	Routines
bhl_010i.pdf	Installation Guide (this document)
bhl_010t.pdf	Technical Manual

3. Resource Requirements

The following minimum package versions are required in order to install this version of IHS HL7:

Kernel 7.3 Toolkit

If you are installing the HL7 package as an adjunct to the Community Health Representative (CHR) package, the Kermit Protocol option must be installed. Refer to the Kernel Toolkit V 7.3 Installation Guide for the proper procedures and requirements.

DHCP HL7 1.6

See the DHCP HL7 Installation Guide for requirements (minimum versions and resource consumption) prior to installing the DHCP HL7 package.

NOTE: Two of the routines in this package have been modified by IHS to call a third HL-routine instead of a VA routine. The modified routines are HLCSMM and HLDTIWU3; the change is to make a call to HLZFUNC instead of VASITE. The modifications in HLCSMM and HLDTIWU3, and the routine HLZFUNC must be present for the HL7 package to work correctly in the IHS environment.

The DHCP HL7 package consists of the following files:

Routines
Developer's Manual
Installation Guide
Release Notes
Security Guide
Technical Manual
User Manual

4. Common Installation Instructions

The IHS HL7 package relies on the DHCP HL7 1.6 package for proper operation. Therefore, the DHCP HL7 1.6 package must be installed prior to, or concurrently with, the IHS HL7 package. This Guide assumes that the DHCP HL7 1.6 package and the IHS HL7 package will be installed concurrently. The steps described in this section must be completed in order to lay the foundation for an interface between RPMS and non-RPMS systems. Refer to the DHCP HL7 1.6 Installation Guide, as necessary, to complete the following steps.

As noted in the DHCP HL7 1.6 Installation Guide, these packages can be loaded into either a Test UCI (T) or a Production UCI (P) by following these steps. Users do not need to be off the system when installing these packages if global placement (Step 1 in the DHCP HL7 1.6 Installation Guide) is accomplished in advance. Installation will normally take five (5) minutes or less.

- 1. Perform Steps 1 through 6 of the Installation Instructions in the DHCP HL7 1.6 Installation Guide. (See the example of Step 6 in Section 5.1.)
- 2. Delete BHL* routines. (See the example in Section 5.2.)
- 3. Perform Step 7 in the DHCP HL7 1.6 Installation Guide. NOTE: The HL7 routines are to be loaded from the file <hl_0160.r>. (See the example in Section 5.3.)
- 4. Perform Step 8 in the DHCP HL7 1.6 Installation Guide. NOTE: There will be two discrepancies between the calculated checksums and the expected checksums; this is due to the IHS modifications in the VA programs ^HLCSMM and ^HLDTIWU3. If there are any discrepancies OTHER THAN THESE, please call the HL7 Help Desk in Tucson: (520) 295-2533 or (520) 295-2534. (See the example in Section 5.4.)
- 5. Perform Steps 9 through 11 in the DHCP HL7 1.6 Installation Guide. Examples of some of these steps are provided in the Installation Guide. (See also the examples of steps 10 and 11 in Section 5.5.)
- 6. Load the BHL* routines. NOTE: The BHL* routines are to be loaded from the file <bhl_0100.r>. (See the example in Section 5.6.) This step will restore 18 routines.
- 7. Run the BHL integrity routine. D ^BHLINTEG NOTE: Please call the HL7 Help Desk in Tucson, (520) 295-2533 or (520) 295-2534, if any routines fail the integrity check.
- 8. Run the BHLINIT routine to initialize the IHS HL7 files. D ^BHLINIT (See the example in Section 5.7.)
- 9. Perform Steps 12 through 14 in the DHCP HL7 1.6 Installation Guide. (See the example of step 13 in Section 5.8.)
- 10. Delete the BHLIN* routines.
- 11. Run the post-initialization routine. D ^BHLPOST (See the example in Section 5.9.)
- 12a.If you are installing this package in conjunction with the CHR Package, please refer to the CHR Interface Installation Section (Section 6), for the remainder of the installation instructions.
- 12b.If you are installing this package in conjunction with a commercial, off-the-shelf (COTS) Pharmacy System, please refer to the COTS Pharmacy Interface Installation Section (Section 7), for the remainder of the installation instructions.
- 13. If the HL and BHL packages were loaded into a production UCI, move the BHL* and HL* routines to all systems as necessary. (Refer also to Step 15 in the DHCP HL7 1.6 Installation Guide.)
- 14. Enable Journalling for HL* globals. (Refer also to Step 16 in the DHCP HL7 1.6 Installation Guide.)

5. Sample Session for Common Installation

This section provides screen examples for some of the steps in Section 4, Common Installation Instructions.

5.1 Perform Steps 1 through 6 of the Installation Instructions in the DHCP HL7 1.6 Installation Guide

Step 6. Delete HLIN* routines. *NOTE:* We recommend that all HL* routines be deleted from the working area to ensure a clean restoration from the UNIX file. The example below shows the deletion of all HL* routines.

> D ^%RDEL

MSM - Routine Delete Utility 23-OCT-96 11:39 AM

Routine selector: **HL***

221 routines selected.

Routine selector: <RETURN>

Delete Selected Routines? <N> \boldsymbol{Y}

Deleting							
HLCHK	HLCS	HLCS1	HLCSDL	HLCSDL1	HLCSDL2	HLCSDR	HLCSDR1
HLCSDR2	HLCSFMN	HLCSFMN0	HLCSFMN1	HLCSHDR	HLCSIN	HLCSLNCH	HLCSMM
HLCSMM1	HLCSMON	HLCSMON1	HLCSORA1	HLCSORA2	HLCSORAT	HLCSOUT	HLCSQUE
HLCSQUE1	HLCSQUED	HLCSRE1	HLCSREP	HLCSREQ	HLCSRES	HLCSRQ	HLCSRV
HLCSTERM	HLCSUTL	HLCSUTL1	HLCSUTL2	HLDTIW01	HLDTIW02	HLDTIW03	HLDTIW04
HLDTIW05	HLDTIW2A	HLDTIW2B	HLDTIW2C	HLDTIWPO	HLDTIWP1	HLDTIWP2	HLDTIWP3
HLDTIWP4	HLDTIWP5	HLDTIWP6	HLDTIWU0	HLDTIWU1	HLDTIWU2	HLDTIWU3	HLDTIWU4
HLDTIWU5	HLFNC	HLFNC1	HLFNC2	HLFNC3	HLINI001	HLINI002	HLINI003
HLINI004	HLINI005	HLINI006	HLINI007	HLINI008	HLINI009	HLINIOOA	HLINIOOB
HLINIOOC	HLINIOOD	HLINIOOE	HLINIOOF	HLINIOOG	HLINIOOH	HLINIOOI	HLINIOOJ
HLINIOOK	HLINIOOL	HLINIOOM	HLINIOON	HLINI000	HLINIOOP	HLINIOOQ	HLINIOOR
HLINI00S	HLINIOOT	HLINIOOU	HLINIOOV	HLINIOOW	HLINIOOX	HLINIOOY	HLINIOOZ
HLINI010	HLINI011	HLINI012	HLINI013	HLINI014	HLINI015	HLINI016	HLINI017
HLINI018	HLINI019	HLINI01A	HLINI01B	HLINI01C	HLINI01D	HLINI01E	HLINI01F
HLINI01G	HLINIO1H	HLINIO1I	HLINI01J	HLINIO1K	HLINIO1L	HLINI01M	HLINI01N
HLINI010	HLINI01P	HLINI01Q	HLINI01R	HLINI01S	HLINI01T	HLINI01U	HLINI01V
HLINI01W	HLINI01X	HLINI01Y	HLINI01Z	HLINI020	HLINI021	HLINI022	HLINI023
HLINI024	HLINI025	HLINI026	HLINI027	HLINI028	HLINI029	HLINI02A	HLINI02B
HLINI02C	HLINI02D	HLINI02E	HLINI02F	HLINI02G	HLINI02H	HLINI02I	HLINI02J
HLINI02K	HLINI02L	HLINI02M	HLINI02N	HLINI020	HLINI02P	HLINI02Q	HLINI02R
HLINI02S	HLINI02T	HLINI02U	HLINI02V	HLINI02W	HLINI02X	HLINI02Y	HLINIS
HLINIT	HLINIT1	HLINIT2	HLINIT3	HLINIT4	HLINIT5	HLLM	HLLM1
HLLP	HLMA	HLMA0	HLMA1	HLMA2	HLNTEG	HLNTEG0	HLONI001
HLONI002	HLONI003	HLONI004	HLONI005	HLONI006	HLONI007	HLONI008	HLONI009
HLONI010	HLONI011	HLONIT	HLONIT1	HLONIT2	HLONIT3	HLPOST	HLPOST16
HLPOSTQ	HLPRE16	HLSERV	HLTASK	HLTF	HLTFO	HLTF1	HLTP
HLTPO	HLTP01	HLTP1	HLTP2	HLTPCK1	HLTPCK1A	HLTRANS	HLUOPT
HLUOPT1	HLUTIL1	HLUTIL2	HLUTIL3	HLZFUNC			

5.2 Delete BHL* routines

>D ^%RDEL

MSM - Routine Delete Utility 23-OCT-96 2:11 PM

Routine selector: \boldsymbol{BHL}^{\star}

22 routines selected.

Routine selector: <RETURN>

Delete Selected Routines? <N> \boldsymbol{Y}

Deleting ...

BHLBACK	BHLBCH	BHLBCH1	BHLBCH2	BHLBLNCH	BHLBPS	BHLBPS1	BHLBPSND
BHLDLR	BHLIN001	BHLIN002	BHLIN003	BHLIN004	BHLINIS	BHLINIT	BHLINIT1
BHLINIT2	BHLINIT3	BHLINIT4	BHLINIT5	BHLPTDMO	BHLTMP		
>							

5.3 Perform Step 7 in the DHCP HL7 1.6 Installation Guide

Step 7. Load DHCP HL7 software tape.

```
>D ^%RR
```

MSM - Routine Restore Utility

Enter input device <HFS>: <RETURN> Host File Server
File Name >: /usr/spool/uucppublic/hl__0160.r
Routine(s) saved at 11:51 AM 22-JAN-96
Header comment is: HEALTH LEVEL SEVEN VERSION 1.6 OCTOBER 13, 1995 WITH IHS
MODIFICATIONS
Selective restore? (allows rename) <N>: <RETURN> NO
Restoring...

HLCS	HLCS1	HLCSDL	HLCSDL1	HLCSDL2	HLCSDR	HLCSDR1
HLCSFMN	HLCSFMN0	HLCSFMN1	HLCSHDR	HLCSIN	HLCSLNCH	HLCSMM
HLCSMON	HLCSMON1	HLCSORA1	HLCSORA2	HLCSORAT	HLCSOUT	HLCSQUE
HLCSQUED	HLCSRE1	HLCSREP	HLCSREQ	HLCSRES	HLCSRQ	HLCSRV
HLCSUTL	HLCSUTL1	HLCSUTL2	HLDTIW01	HLDTIW02	HLDTIW03	HLDTIW04
HLDTIW2A	HLDTIW2B	HLDTIW2C	HLDTIWPO	HLDTIWP1	HLDTIWP2	HLDTIWP3
HLDTIWP5	HLDTIWP6	HLDTIWU0	HLDTIWU1	HLDTIWU2	HLDTIWU3	HLDTIWU4
HLFNC	HLFNC1	HLFNC2	HLFNC3	HLINI001	HLINI002	HLINI003
HLINI005	HLINI006	HLINI007	HLINI008	HLINI009	HLINIOOA	HLINIOOB
HLINIOOD	HLINIOOE	HLINIOOF	HLINIOOG	HLINIOOH	HLINIOOI	HLINIOOJ
HLINIOOL	HLINIOOM	HLINIOON	HLINI000	HLINIOOP	HLINIOOQ	HLINIOOR
HLINIOOT	HLINIOOU	HLINIOOV	HLINIOOW	HLINIOOX	HLINIOOY	HLINIOOZ
HLINI011	HLINI012	HLINI013	HLINI014	HLINI015	HLINI016	HLINI017
HLINI019	HLINI01A	HLINI01B	HLINI01C	HLINI01D	HLINI01E	HLINI01F
HLINIO1H	HLINI01I	HLINI01J	HLINIO1K	HLINIO1L	HLINI01M	HLINI01N
HLINI01P	HLINI01Q	HLINI01R	HLINI01S	HLINI01T	HLINI01U	HLINI01V
HLINI01X	HLINI01Y	HLINI01Z	HLINI020	HLINI021	HLINI022	HLINI023
HLINI025	HLINI026	HLINI027	HLINI028	HLINI029	HLINI02A	HLINI02B
HLINI02D	HLINI02E	HLINI02F	HLINI02G	HLINI02H	HLINI02I	HLINI02J
HLINI02L	HLINI02M	HLINI02N	HLINI020	HLINI02P	HLINI02Q	HLINI02R
HLINI02T	HLINI02U	HLINI02V	HLINI02W	HLINI02X	HLINI02Y	HLINIS
HLINIT1	HLINIT2	HLINIT3	HLINIT4	HLINIT5	HLLM	HLLM1
HLMA	HLMA0	HLMA1	HLMA2	HLNTEG	HLNTEG0	HLONI001
HLONI003	HLONI004	HLONI005	HLONI006	HLONI007	HLONI008	HLONI009
HLONI011	HLONIT	HLONIT1	HLONIT2	HLONIT3	HLPOST	HLPOST16
HLPRE16	HLSERV	HLTASK	HLTF	HLTFO	HLTF1	HLTP
HLTP01	HLTP1	HLTP2	HLTPCK1	HLTPCK1A	HLTRANS	HLUOPT
HLUTIL1	HLUTIL2	HLUTIL3	HLZFUNC			
	HLCS HLCSFMN HLCSMON HLCSQUED HLCSUTL HLDTIW2A HLDTIWP5 HLFNC HLINI005 HLINI005 HLINI001 HLINI011 HLINI011 HLINI019 HLINI011 HLINI012 HLINI025 HLINI025 HLINI021 HLINI021 HLINI021 HLINI03 HLONI003 HLONI011 HLPRE16 HLTP01 HLUTIL1	HLCSHLCS1HLCSFMNHLCSFMN0HLCSFMN0HLCSFMN0HLCSMON1HLCSMON1HLCSQUEDHLCSRE1HLCSUTLHLCSUTL1HLDTIW2AHLDTIW2BHLDTIWP5HLDTIWP6HLFNCHLFNC1HLINI005HLINI006HLINI001HLINI001HLINI001HLINI002HLINI011HLINI012HLINI011HLINI012HLINI012HLINI012HLINI014HLINI012HLINI015HLINI012HLINI025HLINI026HLINI021HLINI022HLINI021HLINI022HLINI021HLINI022HLINI033HLONI004HLONI011HLONITHLPRE16HLSERVHLTP01HLTP1HLUTIL1HLUTIL2	HLCSHLCS1HLCSDLHLCSFMNHLCSFMN0HLCSFMN1HLCSFMNHLCSFMN1HLCSFMN1HLCSMONHLCSRE1HLCSRE1HLCSUTLHLCSRE1HLCSREPHLCSUTLHLCSUTL1HLCSUTL2HLDTIW2AHLDTIW2BHLDTIW2CHLDTIWP5HLDTIWP6HLDTIW00HLFNCHLFNC1HLFNC2HLINI005HLINI006HLINI007HLINI001HLINI008HLINI007HLINI001HLINI009HLINI009HLINI011HLINI01000HLINI0000HLINI011HLINI012HLINI013HLINI012HLINI012HLINI013HLINI013HLINI014HLINI012HLINI014HLINI017HLINI012HLINI025HLINI026HLINI027HLINI021HLINI028HLINI027HLINI021HLINI020HLINI027HLINI021HLINI021HLINI020HLINI021HLINI024HLINI027HLINI021HLINI024HLINI027HLINI021HLINI024HLINI027HLINI021HLINI024HLINI025HLINI021HLINI024HLINI025HLINI025HLINI024HLINI027HLINI021HLINI025HLINI024HLINI021HLINI024HLINI025HLINI011HLINI025HLINI025HLINI011HLONI11HLONI11HLONI011HLONI11HLONI11HLPRE16HLSERVHLTASKHLTP01HLT2HLUTIL3HLUTI11HLUTI2<	HLCSHLCS1HLCSDLHLCSDL1HLCSFMNHLCSFMN0HLCSDL1HLCSHDRHLCSMONHLCSFMN0HLCSGRA1HLCSORA2HLCSQUEDHLCSRE1HLCSREPHLCSREQHLCSUTLHLCSUTL1HLCSUTL2HLDTIW01HLDTIW2AHLDTIW2BHLDTIW2CHLDTIW10HLDTIW5HLDTIW6HLDTIW00HLDTIW10HLN1005HLIN1006HLIN1007HLIN1008HLIN1001HLIN100FHLIN1000HLIN1000HLIN1011HLIN1011HLIN1013HLIN1010HLIN1011HLIN1014HLIN1013HLIN1014HLIN1015HLIN1014HLIN1015HLIN1015HLIN1015HLIN1014HLIN1015HLIN1015HLIN1014HLIN1015HLIN1016HLIN1016HLIN1015HLIN1017HLIN1017HLIN1018HLIN1018HLIN1017HLIN1017HLIN1020HLIN1019HLIN1026HLIN1027HLIN1028HLIN1020HLIN1026HLIN1027HLIN1028HLIN1021HLIN1021HLIN1020HLIN1020HLIN1021HLIN1021HLIN1020HLIN1020HLIN1021HLIN1024HLIN1020HLIN1020HLIN103HLON104HLON1005HLON1006HLON1011HLON171HLON171HLON172HLPR16HLSERVHLTASKHLTFHLP01HLTP1HLTP2HLTPCK1HLUT111HLUT12HLUT13HLZFUNC	HLCSHLCS1HLCSDLHLCSDL1HLCSDL2HLCSFMNHLCSFMN0HLCSFMN1HLCSDL1HLCSINHLCSMONHLCSMON1HLCSORA1HLCSORA2HLCSINHLCSQUEDHLCSRE1HLCSREPHLCSREQHLCSRESHLCSUTLHLCSUTL1HLCSUTL2HLDTIW01HLDTIW02HLDTIW2AHLDTW2BHLDTW2CHLDTIW01HLDTIW10HLDTIWP5HLDTW66HLNI00HLDTW01HLDTW02HLNI005HLIN1006HLIN1007HLIN1008HLIN1001HLIN1001HLIN1002HLIN1008HLIN1009HLIN1009HLIN1001HLIN1004HLIN1004HLIN1004HLIN1009HLIN1011HLIN1012HLIN1004HLIN1004HLIN1007HLIN1011HLIN1012HLIN1013HLIN1014HLIN1015HLIN1019HLIN1014HLIN1015HLIN1011HLIN1019HLIN1014HLIN1015HLIN1011HLIN1014HLIN1017HLIN1015HLIN1012HLIN1025HLIN1026HLIN1027HLIN1028HLIN1029HLIN1025HLIN1026HLIN1027HLIN1026HLIN1029HLIN1021HLIN1024HLIN1025HLIN1025HLIN1025HLN1025HLIN1024HLIN1025HLIN1025HLIN1025HLIN1025HLIN1024HLIN1025HLIN1025HLIN1025HLIN103HLIN105HLIN1025HLIN1025HLIN1025HLIN103HLIN105HLIN1025HLIN1025HLIN1025HLIN104HLIN1025HLIN1025 <td< td=""><td>HLCSHLCS1HLCSDLHLCSD1HLCSD2HLCSDRHLCSFMNHLCSFMN0HLCSFMN1HLCSDRHLCSD1HLCSDRHLCSMONHLCSMON1HLCSORA1HLCSD2HLCSNCHHLCSNCHHLCSQUEDHLCSRE1HLCSUR2HLCSRE2HLCSRE2HLCSRE3HLDTIW2AHLDTIW2BHLDTIW2CHLDTIW01HLDTIW02HLDTIW03HLFNCHLFNC1HLFNC2HLFNC3HLINI001HLINI002HLINI005HLINI006HLINI007HLINI008HLINI009HLINI004HLINI001HLINI000HLINI007HLINI008HLINI009HLINI004HLINI001HLINI004HLINI007HLINI007HLINI007HLINI007HLINI011HLINI004HLINI007HLINI007HLINI007HLINI007HLINI011HLINI012HLINI013HLINI007HLINI007HLINI007HLINI011HLINI011HLINI013HLINI014HLINI007HLINI007HLINI011HLINI017HLINI015HLINI015HLINI016HLINI011HLINI017HLINI017HLINI017HLINI017HLINI012HLINI017HLINI018HLINI011HLINI012HLINI025HLINI026HLINI027HLINI028HLINI029HLINI021HLINI024HLINI027HLINI027HLINI027HLINI021HLINI024HLINI027HLINI024HLINI027HLINI021HLINI024HLINI024HLINI027HLINI027HLINI021HLINI024HLINI027HLINI027HLINI027</td></td<>	HLCSHLCS1HLCSDLHLCSD1HLCSD2HLCSDRHLCSFMNHLCSFMN0HLCSFMN1HLCSDRHLCSD1HLCSDRHLCSMONHLCSMON1HLCSORA1HLCSD2HLCSNCHHLCSNCHHLCSQUEDHLCSRE1HLCSUR2HLCSRE2HLCSRE2HLCSRE3HLDTIW2AHLDTIW2BHLDTIW2CHLDTIW01HLDTIW02HLDTIW03HLFNCHLFNC1HLFNC2HLFNC3HLINI001HLINI002HLINI005HLINI006HLINI007HLINI008HLINI009HLINI004HLINI001HLINI000HLINI007HLINI008HLINI009HLINI004HLINI001HLINI004HLINI007HLINI007HLINI007HLINI007HLINI011HLINI004HLINI007HLINI007HLINI007HLINI007HLINI011HLINI012HLINI013HLINI007HLINI007HLINI007HLINI011HLINI011HLINI013HLINI014HLINI007HLINI007HLINI011HLINI017HLINI015HLINI015HLINI016HLINI011HLINI017HLINI017HLINI017HLINI017HLINI012HLINI017HLINI018HLINI011HLINI012HLINI025HLINI026HLINI027HLINI028HLINI029HLINI021HLINI024HLINI027HLINI027HLINI027HLINI021HLINI024HLINI027HLINI024HLINI027HLINI021HLINI024HLINI024HLINI027HLINI027HLINI021HLINI024HLINI027HLINI027HLINI027

221 Routines restored.

5.4 Perform Step 8 in the DHCP HL7 Installation Guide

Step 8. Run Integrity routine(s).

>D ^HLNTEG

Checksum routine created on 2951013.161539 by KERNEL V7.3

HLCHK	ok				
HLCS	ok				
HLCS1	ok				
HLCSDL	ok				
HLCSDL1	ok				
HLCSDL2	ok				
HLCSDR	ok				
HLCSDR1	ok				
HLCSDR2	ok				
HLCSFMN	ok				
HLCSFMN0	ok				
HLCSFMN1	ok				
HLCSHDR	ok				
HLCSIN	ok				
HLCSLNCH	ok				
HLCSMM	Calculated	2780898,	off	by	51350
HLCSMM1	ok				
HLCSMON	ok				
HLCSMON1	ok				
HLCSORA1	ok				
HLCSORA2	ok				
HLCSORAT	ok				
HLCSOUT	ok				
HLCSQUE	ok				
HLCSQUE1	ok				
HLCSQUED	ok				
HLCSRE1	ok				
HLCSREP	ok				
HLCSREQ	ok				
HLCSRES	ok				
HLCSRQ	ok				
HLCSRV	ok				
HLCSTERM	ok				
HLCSUTL	ok				
HLCSUTL1	ok				
HLCSUTL2	ok				
HLDTIW01	ok				
HLDTIW02	ok				
HLDTIW03	ok				
HLDTIW04	ok				
HLDTIW05	ok				
HLDTIW2A	ok				
HLDTIW2B	ok				
HLDTIW2C	ok				
HLDTIWP0	ok				
HLDTIWP1	ok				
HLDTIWP2	ok				
HLDTIWP3	OK				

HLDTIWP4	ok				
HLDTIWP5	ok				
HLDTIWP6	ok				
HLDTIWU0	ok - l-				
HLDTIWUI	OK - l-				
HLDTIWUZ	OK	100EC17	<u> </u>	1	205060
HLDTIWU3		4205647,	OII	уa	2050668
HLDTIWU4	OK - l-				
HLDTIWU5	OK				
HLFNC	OK				
HLENCI	OK				
HLFNCZ	OK				
HLENCS	OK				
ПЦЦМ ПТТМ1	ok				
ППТЫТ	ok				
	ok				
	ok				
	ok				
HI.MA2	ok				
HLPOST	ok				
HLPOST16	ok				
HLPOSTO	ok				
HLPRE16	ok				
HLSERV	ok				
HLTASK	ok				
HLTF	ok				
HLTF0	ok				
HLTF1	ok				
HLTP	ok				
HLTPO	ok				
HLTP01	ok				
HLTP1	ok				
HLTP2	ok				
HLTPCK1	ok				
HLTPCK1A	ok				
HLTRANS	ok				
HLUOPT	ok				
HLUOPT1	ok				
HLUTIL1	ok				
HLUTIL2	ok				
HLUTIL3	ok				

5.5 Perform Steps 9 through 11 in the DHCP HL7 1.6 Installation Guide

Step 10. Run the HLINIT routine to initialize the DHCP HL7 package files.

NOTE: This example was taken from a new installation of the DHCP HL7 package. If you are upgrading from DHCP HL7 V. 1.5 to V. 1.6, some of the displays may be different. However, the user input remains the same.

>D ^HLINIT

This version (#1.6) of 'HLINIT' was created on 13-OCT-1995 (at ALBANY CAMPUS DEVELOPMENT, by VA FileMan V.21.0)

I AM GOING TO SET UP THE FOLLOWING FILES:

101 PROTOCOL (Partial Definition) Note: You already have the 'PROTOCOL' File.

770 HL7 NON-DHCP APPLICATION PARAMETER

771 HL7 APPLICATION PARAMETER

771.1 HL7 FIELD (including data) I will OVERWRITE your data with mine.

771.2 HL7 MESSAGE TYPE (including data) I will OVERWRITE your data with mine.

771.3 HL7 SEGMENT TYPE (including data) I will OVERWRITE your data with mine.

771.4 HL7 DATA TYPE (including data) I will OVERWRITE your data with mine.

771.5 HL7 VERSION (including data) I will OVERWRITE your data with mine.

771.6 HL7 MESSAGE STATUS (including data) I will OVERWRITE your data with mine.

771.7 HL7 ERROR MESSAGE (including data) I will OVERWRITE your data with mine.

771.8 HL7 STANDARD (including data) I will OVERWRITE your data with mine.

772 HL7 MESSAGE TEXT

773 HL7 MESSAGE ADMINISTRATION

779.001 HL7 EVENT TYPE CODE (including data) I will OVERWRITE your data with mine.

779.002 HL7 ACKNOWLEDGMENT CODE (including data) I will OVERWRITE your data with mine.

779.003 HL7 ACCEPT/APPLICATION ACK CONDITION (including data) I will OVERWRITE your data with mine.

779.004 COUNTRY CODE (including data) I will OVERWRITE your data with mine. HL LOWER LEVEL PROTOCOL TYPE (including data) 869.1 I will MERGE your data with mine. 869.2 HL LOWER LEVEL PROTOCOL PARAMETER 869.3 HL COMMUNICATION SERVER PARAMETERS 870 HL LOGICAL LINK SHALL I WRITE OVER FILE SECURITY CODES? No// Y (Yes) NOTE: This package also contains INPUT TEMPLATES SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? Yes// <RETURN> (Yes) NOTE: This package also contains OPTIONS SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? Yes// <RETURN> (Yes) ARE YOU SURE EVERYTHING'S OK? No// \boldsymbol{Y} (Yes) Starting Pre-Init Pre-Init Finished ...HMMM, JUST A MOMENT PLEASE..... Compiling Cross-Reference(s) of File 101. ... EXCUSE ME, I'M WORKING AS FAST AS I CAN... 'ORD11' ROUTINE FILED. 'ORD12' ROUTINE FILED. 'ORD13' ROUTINE FILED. 'ORD14' ROUTINE FILED. 'ORD15' ROUTINE FILED. 'ORD16' ROUTINE FILED. 'ORD17' ROUTINE FILED. 'ORD18' ROUTINE FILED. 'ORD19' ROUTINE FILED. 'ORD110' ROUTINE FILED. 'ORD111' ROUTINE FILED. 'ORD112' ROUTINE FILED. 'ORD1' ROUTINE FILED...... 'HL CLEAR COMMUNICATIONS ERROR' Option Filed 'HL CLEAR QUEUE' Option Filed 'HL COMMUNICATIONS SERVER' Option Filed 'HL COPY QUEUE ENTRY' Option Filed 'HL CRE/ED QUEUE TEST ENTRY' Option Filed 'HL CUSTOM REPORT' Option Filed 'HL EDIT APPL PARAM' Option Filed 'HL EDIT COMM SERVER PARAMETERS' Option Filed 'HL EDIT SITE PARAM' Option Filed 'HL FILER MONITOR' Option Filed 'HL INTERFACE WORKBENCH' Option Filed 'HL MAIN MENU' Option Filed

'HL MANAGE FILERS' Option Filed 'HL MENU 1.5' Option Filed 'HL MENU 1.6' Option Filed 'HL MESSAGE MONITOR' Option Filed 'HL MESSAGE REQUEUER' Option Filed 'HL MS SERVER' Option Filed 'HL PRINT APPL PARAM' Option Filed 'HL PRINT DATA TYPE' Option Filed 'HL PRINT FAILED TRANS' Option Filed 'HL PRINT FIELDS' Option Filed 'HL PRINT MENU' Option Filed 'HL PRINT MSG TYPE' Option Filed 'HL PRINT PENDING TRANS' Option Filed 'HL PRINT SEGMENT' Option Filed 'HL PRINT SITE PARAM' Option Filed 'HL PRINT VERSION' Option Filed 'HL PURGE TRANSMISSIONS' Option Filed 'HL QUEUE MANAGEMENT' Option Filed 'HL SERVER' Option Filed 'HL SHOW COMMUNICATIONS ERROR' Option Filed 'HL START' Option Filed 'HL START DEFAULT FILERS' Option Filed 'HL START ONE INCOMING FILER' Option Filed 'HL START ONE OUTGOING FILER' Option Filed 'HL STOP' Option Filed 'HL STOP ALL INCOMING FILERS' Option Filed 'HL STOP ALL OUTGOING FILERS' Option Filed 'HL STOP ONE INCOMING FILER' Option Filed 'HL STOP ONE OUTGOING FILER' Option Filed 'HL TASK' Option Filed 'HL TRANSMISSION LOG' Option Filed 'HL V16 SERVER' Option Filed... NOTE THAT FILE SECURITY-CODE PROTECTION HAS BEEN MADE Initial entry in HL COMMUNICATION SERVER PARAMETER file (#869.3) has been created. This version of 'HLONIT' was created on 13-OCT-1995 (at ALBANY CAMPUS DEVELOPMENT, by OE/RR V.2.5) PROTOCOL INSTALLATION ... OK, this may take a while, hold on please..... 'HL CS/RQ - DESELECT MESSAGES' Protocol Filed 'HL CS/RQ - SELECT MESSAGES' Protocol Filed 'HL CS/RQ - VIEW MESSAGE' Protocol Filed 'HL CS/RQ MENU - SCREEN 2' Protocol Filed 'HL DT/IW - ACTIVATE/INACTIVATE APPLICATION' Protocol Filed 'HL DT/IW - AI FOR SCREEN 1' Protocol Filed 'HL DT/IW - BLANK 1' Protocol Filed 'HL DT/IW - BLANK 2' Protocol Filed 'HL DT/IW - BLANK 3' Protocol Filed 'HL DT/IW - CA FOR SCREEN 1' Protocol Filed 'HL DT/IW - CC FOR SCREEN 4' Protocol Filed 'HL DT/IW - CL FOR SCREEN 2' Protocol Filed 'HL DT/IW - CREATE APPLICATION' Protocol Filed 'HL DT/IW - CREATE CLIENT PROTOCOL' Protocol Filed

```
'HL DT/IW - CREATE LOGICAL LINK' Protocol Filed
'HL DT/IW - CREATE SERVER PROTOCOL' Protocol Filed
'HL DT/IW - CS FOR SCREEN 3' Protocol Filed
'HL DT/IW - DA FOR SCREEN 1' Protocol Filed
'HL DT/IW - DC FOR SCREEN 4' Protocol Filed
'HL DT/IW - DELETE APPLICATION' Protocol Filed
'HL DT/IW - DELETE CLIENT PROTOCOL' Protocol Filed
'HL DT/IW - DELETE LOGICAL LINK' Protocol Filed
'HL DT/IW - DELETE SERVER PROTOCOL' Protocol Filed
'HL DT/IW - DL FOR SCREEN 2' Protocol Filed
'HL DT/IW - DS FOR SCREEN 3' Protocol Filed
'HL DT/IW - EA FOR SCREEN 1' Protocol Filed
'HL DT/IW - EC FOR SCREEN 4' Protocol Filed
'HL DT/IW - EDIT APPLICATION' Protocol Filed
'HL DT/IW - EDIT CLIENT PROTOCOL' Protocol Filed
'HL DT/IW - EDIT LOGICAL LINK' Protocol Filed
'HL DT/IW - EDIT SERVER PROTOCOL' Protocol Filed
'HL DT/IW - EL FOR SCREEN 2' Protocol Filed
'HL DT/IW - ES FOR SCREEN 3' Protocol Filed
'HL DT/IW - JUMP TO APPLICATION (SCREEN 1)' Protocol Filed
'HL DT/IW - JUMP TO CLIENT (SCREEN 4)' Protocol Filed
'HL DT/IW - JUMP TO LINK (SCREEN 2)' Protocol Filed
'HL DT/IW - JUMP TO NEXT APP (SCREEN 1)' Protocol Filed
'HL DT/IW - JUMP TO NEXT CLIENT (SCREEN 4) ' Protocol Filed
'HL DT/IW - JUMP TO NEXT LINK (SCREEN 2)' Protocol Filed
'HL DT/IW - JUMP TO NEXT SERVER (SCREEN 3)' Protocol Filed
'HL DT/IW - JUMP TO NEXT SERVER (SCREEN 5)' Protocol Filed
'HL DT/IW - JUMP TO PREVIOUS APP (SCREEN 1)' Protocol Filed
'HL DT/IW - JUMP TO PREVIOUS CLNT (SCREEN 4) ' Protocol Filed
'HL DT/IW - JUMP TO PREVIOUS LINK (SCREEN 2) ' Protocol Filed
'HL DT/IW - JUMP TO PREVIOUS SRVR (SCREEN 3)' Protocol Filed
'HL DT/IW - JUMP TO PREVIOUS SRVR (SCREEN 5) ' Protocol Filed
'HL DT/IW - JUMP TO SERVER (SCREEN 3)' Protocol Filed
'HL DT/IW - JUMP TO SERVER (SCREEN 5) ' Protocol Filed
'HL DT/IW - REBUILD SCREEN 1' Protocol Filed
'HL DT/IW - REBUILD SCREEN 2' Protocol Filed
'HL DT/IW - REBUILD SCREEN 3' Protocol Filed
'HL DT/IW - REBUILD SCREEN 4' Protocol Filed
'HL DT/IW - REBUILD SCREEN 5' Protocol Filed
'HL DT/IW - REMOVE SUBSCRIPTION' Protocol Filed
'HL DT/IW - RS FOR SCREEN 5' Protocol Filed
'HL DT/IW - S2 FOR SCREEN 5' Protocol Filed
'HL DT/IW - SHOW CLIENT PROTOCOLS' Protocol Filed
'HL DT/IW - SHOW LOGICAL LINKS' Protocol Filed
'HL DT/IW - SHOW SERVER PROTOCOLS' Protocol Filed
'HL DT/IW - SUBSCRIBE' Protocol Filed
'HL DT/IW - SUBSCRIBE TO SERVER' Protocol Filed
'HL DT/IW MENU - SCREEN 1' Protocol Filed
'HL DT/IW MENU - SCREEN 2' Protocol Filed
'HL DT/IW MENU - SCREEN 3' Protocol Filed
'HL DT/IW MENU - SCREEN 4' Protocol Filed
'HL DT/IW MENU - SCREEN 5' Protocol Filed
OK, Protocol Installation is Complete.
'HL INTERFACE WORKBENCH - 1' List Template...Filed.
'HL INTERFACE WORKBENCH - 2' List Template...Filed.
'HL INTERFACE WORKBENCH - 3' List Template...Filed.
'HL INTERFACE WORKBENCH - 4' List Template...Filed.
'HL INTERFACE WORKBENCH - 5' List Template...Filed.
```

```
'HL MESSAGE REQUEUER - 1' List Template...Filed.
'HL MESSAGE REQUEUER - 2' List Template...Filed.
'HL MESSAGE REQUEUER - 3' List Template...Filed.
Select output device for file conversion: HOME// ;;99999
- File conversions started on 23-OCT-96 @ 11:44:10 -
Copying entries from HL7 NON-DHCP APPLICATION PARAMETER file (#770)
to HL7 APPLICATION PARAMETER file (#771)
Purging data from HL7 MESSAGE TEXT file (#772)
```

Converting newly defined fields in HL7 MESSAGE TEXT file (#772)

- File conversions completed on 23-OCT-96 @ 11:44:10 -

Step 11. Add the HL Main Menu option to the menus of appropriate IRM staff.

>D P^DI

VA FileMan 21.0 Select OPTION: 1 ENTER OR EDIT FILE ENTRIES INPUT TO WHAT FILE: LOCATION// OPTION (2809 entries) EDIT WHICH FIELD: ALL// MENU 1 MENU (multiple) 2 MENU TEXT CHOOSE 1-2: 1 EDIT WHICH MENU SUB-FIELD: ALL// <RETURN> THEN EDIT FIELD: <RETURN> Select OPTION NAME: EVE Systems Manager Menu Select ITEM: XMMGR// HL MAIN MENU HL7 Main Menu Are you adding 'HL MAIN MENU' as a new MENU (the 12TH for this OPTION)? Y (Yes) MENU SYNONYM: <RETURN> SYNONYM: <RETURN> DISPLAY ORDER: <RETURN> Select ITEM: ^

Select OPTION NAME: <RETURN>

Select OPTION: <RETURN>
>

5.6 Load the BHL* routines

>D ^%RR

MSM - Routine Restore Utility

Enter input device <HFS>: Host File Server File Name >: /usr/spool/uucppublic/bhl_0100.r Routine(s) saved at 11:59 AM 24-OCT-96 Header comment is: Selective restore? (allows rename) <N>: <RETURN> NO Restoring... BHLBCH2 BHLIN001 BHLINIS BHLBCH BHLBCH1 BHLBPS BHLBPS1 BHLINIT BHLINIT1 BHLINIT2 BHLINIT3 BHLINIT4 BHLINIT5 BHLINTEG BHLPOST BHLRXPS1 BHLRXPS2 BHLRXPST 18 Routines restored. >

5.7 Run the BHLINIT routine to initialize the IHS HL7 files

>D ^BHLINIT

This version (#1.0) of 'BHLINIT' was created on 24-OCT-1996 (at TUCAPD, by VA FileMan V.21.0)

NOTE: This package also contains BULLETINS

ARE YOU SURE EVERYTHING'S OK? No// \boldsymbol{Y} (Yes)

...EXCUSE ME, HOLD ON...... 'BHLBPS RX-PCC LINK DATA ERROR' BULLETIN FILED -- Remember to add mail groups for new bulletins. 'BHLBPS RX-PCC MESSAGE ERROR' BULLETIN FILED -- Remember to add mail groups for new bulletins.. >

5.8 Perform Steps 12 through 16 in the DHCP HL7 1.6 Installation Guide

Step 13. Start the incoming and outgoing filers.

Select OPTION NAME: HL MAIN MENU HL7 Main Menu 1 V1.5 OPTIONS ... 2 V1.6 OPTIONS ... 3 Activate/Inactivate Application 4 Print/Display Menu ... 5 Purge Message Text File Entries Select HL7 Main Menu Option: 2 V1.6 OPTIONS 1 Communications Server ... 2 Interface Workbench 3 Message Requeuer Select V1.6 OPTIONS Option: 1 Communications Server 1 Edit Communication Server parameters 2 Manage incoming & outgoing filers ... 3 Monitor incoming & outgoing filers 4 Start LLP 5 Stop LLP 6 Systems Link Monitor 7 Logical Link Queue Management ... 8 Report Select Communications Server Option: 2 Manage incoming & outgoing filers Start default number of incoming & outgoing filers 1 2 Start an incoming filer 3 Start an outgoing filer 4 Stop all incoming filers 5 Stop all outgoing filers 6 Stop an incoming filer 7 Stop an outgoing filer Select Manage incoming & outgoing filers Option: 1 Start default number of inco ming & outgoing filers Incoming filer queued as task number 1689712 Outgoing filer queued as task number 1689713 Start default number of incoming & outgoing filers 1 2 Start an incoming filer 3 Start an outgoing filer 4 Stop all incoming filers 5 Stop all outgoing filers

6 Stop an incoming filer

7 Stop an outgoing filer

Select Manage incoming & outgoing filers Option: <RETURN>

- 1 Edit Communication Server parameters
- 2 Manage incoming & outgoing filers ...
- 3 Monitor incoming & outgoing filers
- 4 Start LLP
- 5 Stop LLP
- 6 Systems Link Monitor
- 7 Logical Link Queue Management ...
- 8 Report

Select Communications Server Option: <RETURN>

- 1 Communications Server ...
- 2 Interface Workbench
- 3 Message Requeuer

Select V1.6 OPTIONS Option: <RETURN>

- V1.5 OPTIONS ...
 V1.6 OPTIONS ...
 Activate/Inactivate Application
 Print/Display Menu ...
- 5 Purge Message Text File Entries

Select HL7 Main Menu Option: <RETURN>

Do you really want to halt? YES// <RETURN>

5.9 Run the post-initialization routine

>D ^BHLPOST

DELETING UNNECESSARY BHL-NAMESPACE FILES.

No dictionaries were selected.

Now checking for residual ^DD entries within range.

DONE

DELETING BHL PACKAGE ENTRY.

BHL post-init is complete.

>

6. CHR Interface Installation

Installation of the CHR package, including its post-initialization files, will install all of the required file entries in order to use the HL7 interface. There is no additional installation required within the IHS HL7 package.

7. COTS Pharmacy Interface Installation

To finish the pharmacy interface installation, complete the following steps.

- 1. Run the BHLRXPST routine. D ^BHLRXPST (See the example in Section 8.1.)
- 2. Using the HL7 Main Menu option, assign a MUMPS device to the BPSLNK Logical Link. (See the example in Section 8.2.)

8. Sample Session for COTS Pharmacy Installation

8.1 Run the BHLRXPST routine

>D ^BHLRXPST

Enter Facility: SELLS HOSPITAL/CLINIC// **<RETURN>** TUCSON SELLS 01 I created a PHARM MGR Mail Group entry. Please add appropriate members to this group. PHARM MGR Mail Group added to the BHLBPS RX-PCC MESSAGE ERROR Bulletin. PHARM MGR Mail Group added to the BHLBPS RX-PCC LINK DATA ERROR Bulletin. Adding required entries to the HL7 APPLICATION PARAMETER file.adding: BHLBPSadding: VIKRX Adding required entries to the PROTOCOL file.adding: VIKRX Adding required entries to the PROTOCOL file. Adding HL7 Lower Level Protocol Entry. Adding HL7 Logical Link Entry. ALL DONE WITH POST-INIT

>

8.2 Using the HL Main Menu option, assign a MUMPS device to the BPSLNK Logical Link

NOTE: The example given below includes displays taken from the HL7 workbench. Onscreen, these displays include formatting characteristics that do not translate well to paper. Therefore, what you see on your terminal and what is shown here may not be exactly the same. The computer dialog shown inside the boxes, for example, includes escape sequences for cursor control and screen display, whereas the dialog shown outside the boxes is a simpler, "roll-and-scroll" display.

Select OPTION NAME: HL MAIN MENU HL7 Main Menu

1 V1.5 OPTIONS ... 2 V1.6 OPTIONS ...

- 3 Activate/Inactivate Application
- Print/Display Menu ...
 Purge Message Text File Entries

Select HL7 Main Menu Option: 2 V1.6 OPTIONS

- 1 Communications Server ...
- 2 Interface Workbench
- 3 Message Requeuer

Select V1.6 OPTIONS Option: 2 Interface Workbench..

UL 7 Interface Werkbanch	Nov. 04 1006 10.21.47 Doco. 1 of 1
HL-/ INTERIACE WORKDENCH	Currently Defined Applications
<pre>(1) BHLBPS Facility Name: 000101 Country Code: USA Mail Group: PHARM MGR</pre>	Active/Inactive: ACTIVE HL7 Field Separator: HL7 Encoding Characters: ^~\&
(2) VIKRX Facility Name: 000101 Country Code: USA Mail Group: PHARM MGR	Active/Inactive: ACTIVE HL7 Field Separator: HL7 Encoding Characters: ^~\&
CA Create Application EA DA Delete Application AI SL Show Logical Links SS JN Jump To Next App JP Select Tool:Jump To Next App/,	Edit Application Activate/Inactivate Show Srvr Protocols SC Show Client Protocols Jump To Previous App JA Jump To Application / SL Show Logical Links

Nov 04, 1996 10:21:53 HL-7 Interface Workbench Page: 1 of 1 Currently Defined Logical Links (1) BPSLNK LLP Parameter: BPSLNK LLP Type: HLLP (H) Read Timeout: 10 Device: ACK Timeout: 10 Version ID: 2.2 Re-transmission Attempts: 3 Block Size: <DEFAULT> Start Block Character: VT Queue Size: 2000 End Block Character: FS CL Create Logical Link EL Edit Logical Link DL Delete Logical Link JN Jump To Next Link JP Jump To Previous Link JL Jump To Link Select Tool: Jump To Next Link// EL Edit Logical Link Logical Link information _____ Queue Size: 2000// <RETURN> LLP Parameter: BPSLNK// <RETURN> LLP Parameters _____ LLP Type: HLLP// <RETURN> Device: BBB78 <- Note: Select appropriate device here. Version ID: 2.2// <RETURN> Block Size: <RETURN> Read Timeout: 10// <RETURN> ACK Timeout: 10// <RETURN> Re-transmission Attempts: 3// <RETURN> Start Block Character: VT// <RETURN> End Block Character: FS// <RETURN> Nov 04, 1996 10:22:31 HL-7 Interface Workbench Page: 1 of 1 Currently Defined Logical Links (1) BPSLNK LLP Parameter: BPSLNK Read Timeout: 10 LLP Type: HLLP (H) Device: BBB78 ACK Timeout: 10 Version ID: 2.2 Re-transmission Attempts: 3 Block Size: <DEFAULT> Start Block Character: VT Queue Size: 2000 End Block Character: FS CL Create Logical Link EL Edit Logical Link DL Delete Logical Link JN Jump To Next Link JP Jump To Previous Link JL Jump To Link Select Tool:Jump To Next Link// ^

Nov 04, 1996 10:22:34 HL-7 Interface Workbench Page: 1 of 1 Currently Defined Applications (1) BHLBPS Active/Inactive: ACTIVE Facility Name: 000101 Country Code: USA HL7 Field Separator: | Mail Group: PHARM MGR HL7 Encoding Characters: ^~\& (2) VIKRX Facility Name: 000101 Active/Inactive: ACTIVE Country Code: USA HL7 Field Separator: | Mail Group: PHARM MGR HL7 Encoding Characters: ^~\& CA Create Application EA Edit Application DA Delete Application AI Activate/Inactivate SL Show Logical Links SS Show Srvr Protocols SC Show Client Protocols JN Jump To Next App JP Jump To Previous App JA Jump To Application Select Tool:Jump To Next App// ^ Communications Server ... 1 2 Interface Workbench 3 Message Requeuer Select V1.6 OPTIONS Option: <RETURN> 1 V1.5 OPTIONS ... V1.6 OPTIONS ... 2 3 Activate/Inactivate Application 4 Print/Display Menu ... 5 Purge Message Text File Entries Select HL7 Main Menu Option: <RETURN> Do you really want to halt? YES// <RETURN> Halting at 10:22 am >