

Department of Veterans Affairs  
Decentralized Hospital Computer Program

**DHCP**  
**HEALTH LEVEL SEVEN**  
**(HL7)**  
**INSTALLATION GUIDE**

Version 1.6  
October 1995

IRM Field Office  
Albany, New York



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# Resource Requirements

## Minimum Versions Required

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

- Kernel V. 7.1
- VA FileMan V. 21.0
- VA MailMan V. 7.1
- OE/RR V. 2.5

## Resource Consumption

- The ^HL global will consume approximately 17K of disk space for static file entries, and about 1K of disk space for every 10 entries in the HL7 MESSAGE TEXT file (#772).
- The ^HLCS global will consume approximately 50K of disk space for every 100 messages (500 byte average length) in the HL LOGICAL LINK (#870) file.
- The ^HLMA global will consume approximately 400 bytes for every 10 entries in the HL7 MESSAGE ADMINISTRATION file (#773).
- CPU usage is insignificant for a few links, but will increase linearly as more links are added.

## Resource Requirements

## Installation Instructions

This installation guide can be used to install the DHCP HL7 system into either a Test UCI (T) or a Production UCI (P) by following the steps in the table below. Users do not need to be off the system when installing this package if global placement (Step 1 below) is accomplished in advance. Installation will normally take 5 minutes or less.

Step	Description	UCI
1.	DSM: Disable journalling for HL* globals. MSM: Follow standard journalling practices.	T, P
2.	Check schedule for IVM and EDR background jobs (and any other applications that are using the DHCP HL7 V. 1.5 package). Reschedule for after install of V. 1.6.	T, P
3.	Global Placement: <ul style="list-style-type: none"> <li>• If your site has never installed DHCP HL7 before, you must set the ^HL global to null and place it in the appropriate translation.</li> <li>• Whether or not your site has installed DHCP HL7 before, you must set the ^HLCS and ^HLMA globals to null and place them in the appropriate translation, then restart the configurations to activate translation.</li> <li>• READ/WRITE/DELETE access is recommended for all classes (system, world, group, and UCI or user, depending on OS).</li> <li>• It is recommended that the globals ^HL, ^HLCS, and ^HLMA be journaled.</li> </ul>	T, P
4.	Sign into UCI where package is to be loaded.  DSM: Logon into a standard partition. MSM: Logon into a 40k partition.	T, P
5.	Stop all V. 1.5 LLPs that are currently running. <ul style="list-style-type: none"> <li>• Find tasks with a description of “HL7 Message Processor for XXX” (where XXX is the name of the Non-DHCP application).</li> <li>• Use the TaskMan User options [ZTMUSER] to request stopping of these tasks.</li> </ul>	T, P
6.	Delete HLIN* routines.	T, P

Step	Description	UCI
7.	Load DHCP HL7 software tape.  <b>D ^%RR</b>  (See example on Page 7.)	T, P
8.	Run integrity routine(s).  <b>D ^HLNTEG</b>  <i>NOTE: Call your IRM Field Office if any routines fail the integrity routine.</i>	T, P
9.	Please insure that the variables DUZ and DUZ(0) are defined prior to attempting initialization. The initialization will abort if DUZ is not set to a valid user number and DUZ(0) does not equal "@". Additionally, the variables DT, DTIME, and U must be defined, and the variable DIRUT must not exist.	T, P
10.	Run the HLINIT routine to initialize the DHCP HL7 package files.  <b>D ^HLINIT</b>  (See example beginning on Page 8.)	T, P
11.	Add the HL7 MAIN MENU option to the menus of appropriate IRM staff.  <b>D P^DI</b>  (See example on Page 13.)	T, P
12.	Restart the V. 1.5 LLPs. <ul style="list-style-type: none"> <li>• From the HL7 Main Menu [HL MAIN MENU] option, go to the V1.5 OPTIONS [HL MENU 1.5] submenu.</li> <li>• Use the Initiate Background Task option [HL TASK] to restart the LLPs that you stopped in Step 5.</li> </ul>	T, P



Step	Description	UCI
13.	Start the incoming and outgoing filers. <ul style="list-style-type: none"> <li>• From the HL7 Main Menu [HL MAIN MENU] option, go to the V1.6 OPTIONS [HL MENU 1.6] submenu.</li> <li>• Go to the Communications Server [HL COMMUNICATIONS SERVER] submenu.</li> <li>• Go to the Manage incoming and outgoing filers [HL MANAGE FILERS] submenu.</li> <li>• Choose the Start default number of incoming &amp; outgoing filers [HL START DEFAULT FILERS] option.</li> </ul>	T, P
14.	Delete the HLIN* routines.	T, P
15.	Move the HL* routines to all systems as necessary.	P
16.	Enable Journalling for HL* globals	T, P

*NOTE: Examples of some of the above steps are provided on the following pages of this manual.*

## Installation Instructions

# Installation Screen Examples

This section provides screen examples (as indicated in the table beginning on Page 3) for some of the steps in the Installation Instructions. For ease of reproduction, user input is both underlined and in boldface type.

## Step 7. Load DHCP HL7 Software Tape

D ^%RR

Routine Restore

Input Device ? > \*\*Enter site-specific device name\*\*

Restore All (A), Selected (S), or Confirm on overwrite (C) ? A

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	HLDTIWP0	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	HLINI00A	HLINI00B
HLINI00C	HLINI00D	HLINI00E	HLINI00F	HLINI00G	HLINI00H	HLINI00I	HLINI00J
HLINI00K	HLINI00L	HLINI00M	HLINI00N	HLINI00O	HLINI00P	HLINI00Q	HLINI00R
HLINI00S	HLINI00T	HLINI00U	HLINI00V	HLINI00W	HLINI00X	HLINI00Y	HLINI00Z
HLINI010	HLINI011	HLINI012	HLINI013	HLINI014	HLINI015	HLINI016	HLINI017
HLINI018	HLINI019	HLINI01A	HLINI01B	HLINI01C	HLINI01D	HLINI01E	HLINI01F
HLINI01G	HLINI01H	HLINI01I	HLINI01J	HLINI01K	HLINI01L	HLINI01M	HLINI01N
HLINI01O	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	HLINI02O	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	HLTF0	HLTF1	HLTP
HLTP0	HLTP01	HLTP1	HLTP2	HLTPCK1	HLTPCK1A	HLTRANS	HLUOPT
HLUOPT1	HLUTIL1	HLUTIL2	HLUTIL3				

220 routines

## Step 10. Initialization

*NOTE: This example assumes that your site previously installed DHCP HL7 V. 1.5.*

>D HLINIT

This version (#1.6) of 'HLINIT' was created on 13-SEP-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  
Note: You already have the 'HL7 NON-DHCP APPLICATION PARAMETER' File.

771            HL7 APPLICATION PARAMETER  
\*BUT YOU ALREADY HAVE 'HL7 DHCP APPLICATION PARAMETER' AS FILE #771!  
Shall I change the NAME of the file to HL7 APPLICATION PARAMETER? NO// YES

771            HL7 APPLICATION PARAMETER  
Note: You already have the 'HL7 APPLICATION PARAMETER' File.

771.1          HL7 FIELD (including data)  
Note: You already have the 'HL7 FIELD' File.  
I will OVERWRITE your data with mine.

771.2          HL7 MESSAGE TYPE (including data)  
Note: You already have the 'HL7 MESSAGE TYPE' File.  
I will OVERWRITE your data with mine.

771.3          HL7 SEGMENT TYPE (including data)  
\*BUT YOU ALREADY HAVE 'HL7 SEGMENT NAME' AS FILE #771.3!  
Shall I change the NAME of the file to HL7 SEGMENT TYPE? NO// YES

771.3          HL7 SEGMENT TYPE (including data)  
Note: You already have the 'HL7 SEGMENT TYPE' File.  
I will OVERWRITE your data with mine.

771.4          HL7 DATA TYPE (including data)  
Note: You already have the 'HL7 DATA TYPE' File.  
I will OVERWRITE your data with mine.

771.5          HL7 VERSION (including data)  
Note: You already have the 'HL7 VERSION SUPPORTED' File.  
I will OVERWRITE your data with mine.

**Step 10. Initialization**

771.6 HL7 MESSAGE STATUS (including data)

Note: You already have the 'HL7 MESSAGE STATUS' File.  
I will OVERWRITE your data with mine.

771.7 HL7 ERROR MESSAGE (including data)

Note: You already have the 'HL7 ERROR MESSAGE' File.  
I will OVERWRITE your data with mine.

771.8 HL7 STANDARD (including data)

Note: You already have the 'HL7 STANDARD' File.  
I will OVERWRITE your data with mine.

772 HL7 MESSAGE TEXT

\*BUT YOU ALREADY HAVE 'HL7 TRANSMISSION' AS FILE #772!

Shall I change the NAME of the file to HL7 MESSAGE TEXT? NO// YES

772 HL7 MESSAGE TEXT

Note: You already have the 'HL7 MESSAGE TEXT' File.

773 HL7 MESSAGE ADMINISTRATION

Note: You already have the 'HL7 MESSAGE ADMINISTRATION' File.

779.001 HL7 EVENT TYPE CODE (including data)

Note: You already have the 'HL7 EVENT TYPE CODE' File.  
I will OVERWRITE your data with mine.

779.002 HL7 ACKNOWLEDGMENT CODE (including data)

Note: You already have the 'HL7 ACKNOWLEDGMENT CODE' File.  
I will OVERWRITE your data with mine.

779.003 HL7 ACCEPT/APPLICATION ACK CONDITION (including data)

Note: You already have the 'HL7 ACCEPT/APPLICATION ACK CONDITION' File.  
I will OVERWRITE your data with mine.

779.004 COUNTRY CODE (including data)

Note: You already have the 'COUNTRY CODE' File.  
I will OVERWRITE your data with mine.

869.1 HL LOWER LEVEL PROTOCOL TYPE (including data)

Note: You already have the 'HL LOWER LEVEL PROTOCOL TYPE' File.  
I will MERGE your data with mine.

869.2 HL LOWER LEVEL PROTOCOL PARAMETER

Note: You already have the 'HL LOWER LEVEL PROTOCOL PARAMETER' File.

869.3 HL COMMUNICATION SERVER PARAMETERS

Note: You already have the 'HL COMMUNICATION SERVER PARAMETERS' File.

870 HL LOGICAL LINK

Note: You already have the 'HL LOGICAL LINK' File.

SHALL I WRITE OVER FILE SECURITY CODES? No// <RET> (No)

NOTE: This package also contains INPUT TEMPLATES

SHALL I WRITE OVER EXISTING INPUT TEMPLATES OF THE SAME NAME? Yes// <RET>  
(Yes)

## Step 10. Initialization

NOTE: This package also contains OPTIONS  
SHALL I WRITE OVER EXISTING OPTIONS OF THE SAME NAME? Yes// <RET> (Yes)

| ARE YOU SURE EVERYTHING'S OK? No// YES

Starting Pre-Init  
Pre-Init Finished

...EXCUSE ME, I'M WORKING AS FAST AS I CAN.....  
.....  
.....

Compiling Cross-Reference(s) of File 101.

...SORRY, THIS MAY TAKE A FEW MOMENTS...

'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

**Step 10. Initialization**

```
'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..
NO 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-SEP-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
```

## Step 10. Initialization

```
'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// <RET> LAT



**Step 10. Initialization**

```
- File conversions started on 13-SEP-95 @ 06:39:31 -

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 13-SEP-95 @ 06:39:51 -

>
```

**Step 11. Add The HL7 Main Menu**

```
>D P^DI
```

```
VA FileMan 21
```

```
Select OPTION: ENTER OR EDIT FILE ENTRIES
```

```
INPUT TO WHAT FILE: OPTION// 19 OPTION (3071 entries)
EDIT WHICH FIELD: ALL// MENU
  1 MENU (multiple)
  2 MENU TEXT
CHOOSE 1-2: 1
  EDIT WHICH MENU SUB-FIELD: ALL// <RET>
THEN EDIT FIELD: <RET>
```

```
Select OPTION NAME: EVE System Manager Menu
Select ITEM: HL MAIN MENU HL7 Main Menu
  ARE YOU ADDING 'HL MAIN MENU' AS A NEW MENU (THE 9TH FOR THIS OPTION)? Y
  (YES)
  MENU SYNONYM: <RET>
  SYNONYM: <RET>
  DISPLAY ORDER: <RET>
Select ITEM: ^
```

```
Select OPTION NAME: <RET>
```

```
Select OPTION: <RET>
>
```