HOSPITAL INQUIRY (HINQ)

TECHNICAL MANUAL

Version 4.0

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Department of Veterans Affairs
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Revision History

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02/17/05	Revised the HINQ technical manual according to the team feedback	REDACTED
02/17/05	Removed the How to use this manual section	REDACTED
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02/23/05	Removed the File List	REDACTED
02/23/05	Removed the File Flow	REDACTED
07/20/05	Updated HL7 Z11 Crossmapping Table	REDACTED
07/20/05	Added Diagnostic Extremity Code to Crossmapping Table	REDACTED
07/20/05	Added Diag-Orig Effective Date of SC Rating to Crossmapping Table	REDACTED
07/20/05	Added Rating Date of SC per Disability	REDACTED
07/20/05	Effective Date of Combined Evaluation	REDACTED
08/04/05	Added HINQ Replacement Diagram	REDACTED
08/04/05	Added HINQ User Interface	REDACTED
08/04/05	Added ORU/ORF Z11 Segment to existing chart	REDACTED
08/05/05	Added Performance Requirements	REDACTED
08/05/05	Added Latency	REDACTED
08/05/05	Added Packet Sizing	REDACTED
2/24/12	Patch DVB*4.0*62/DG*5.3*797 – Updated for Remedy Ticket HD 484945.	REDACTED/ REDACTED/REDACTED

Date	Revision Description	Author
3/12/12	Added Note under the File List on pg. 13 that the ENTITLEMENT CODES (#395.1) file and the DIARY DEFINITIONS (#395.4) file are no longer used.	REDACTED/REDACTED
3/27/12	Patch DVB*4.0*62/DG*5.3*797 – Updated footer date from April to March.	REDACTED

Table Of Contents

Introduction

Main features of the HINQ package include the following.

- Requests may be sent individually, when necessary, or numerous requests may be forwarded in batch mode
- Status of Suspense file entries is automatically updated by the system to indicate the current status of the request
- Expanded informational response is obtained
- Provides the capability to update returned HINQ data directly into the PATIENT file

A HINQ is a request from a VA Medical Center for information pertaining to a veteran. HINQ requests are sent from a **V**_IST_**A** computer over TCP/IP to an interface at the AAC (Austin Automation Center) and then to the VBA (Veterans Benefits Administration) computer where veteran information is stored. Requests are processed by the VBA computer and returned via the AAC to the **V**_IST_**A** computer.

HINQ Replacement Diagram

HINQ Interim Solution with
Simultaneous HEC update
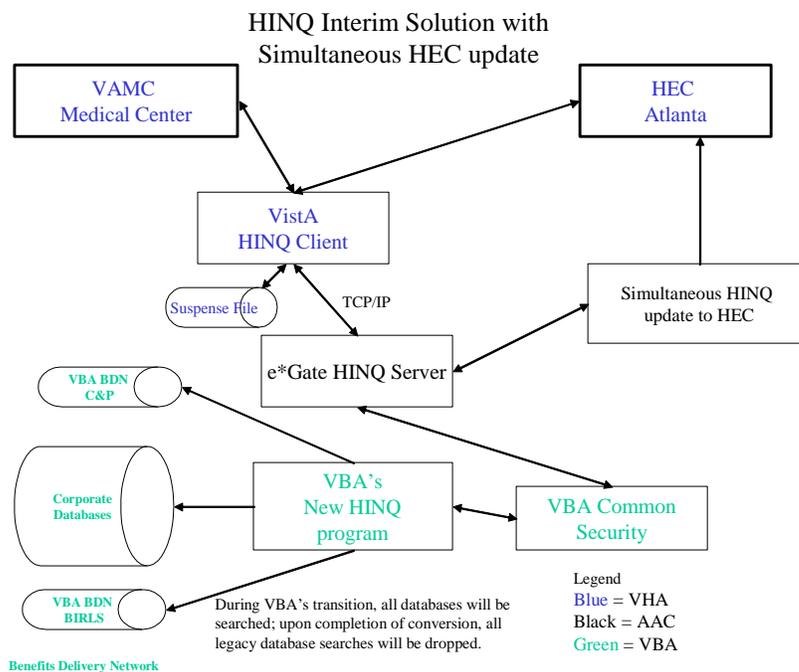
HINQ User Interface

There are minor changes made to the HINQ user interface that effect the following fields:
- ➢ VBA's new HINQ service will request for the following items:
  - o Veteran's Claim Number
  - o Social Security Number
  - o Veteran's Service Number
- ➢ The "User name"prompt has been removed.

HINQ Processing

HINQ requests can only be directly sent to the VBA computer by users who are holders of the HINQ security key, DVBHINQ, and who have received a HINQ password. Other users may make HINQ requests but these are placed into a file (called the HINQ Suspense file) to be sent by a user with the required security to the VBA computer at a later time.

The HINQ Suspense file serves two major functions. As its name suggests, HINQ requests can be placed in this file for later processing. These requests are entered into the file with a status of PENDING. Selected options allow holders of the HINQ security key to release these requests for transmission to the VBA computer. The file also serves as a log in that HINQ responses from the VBA computer are also entered here in a NEW or ERROR status. This provides the medical center with a log of HINQ activity.

The status of Suspense file entries is updated automatically by the system to indicate the current status of the request. Following are the four available statuses for entries in the Suspense file: PENDING, NEW MAIL, ERROR, or IDCU ERROR.

Pending

When a request is placed into the Suspense file for later transmission, the entry is given the status of PENDING. The Suspense file should be used to store requests for batch transmission or when it is not possible to send the request directly to the VBA computer as in the following cases.

- The user does not have the required security - HINQ key and password.
- The network communication system is not functioning.

When these conditions are detected by the HINQ software, requests are automatically directed to the Suspense file.

New Mail

Entries in the Suspense file with the status of PENDING are updated to the NEW MAIL status when a request has been processed without error by the VBA computer and a response has been returned to the HINQ mail group.

Error

Entries in the Suspense file with the status of PENDING are updated to the ERROR status when an error has occurred in the processing of this HINQ inquiry at the VBA computer. For example, the HINQ password was missing or invalid.

IDCU Error

Entries in the Suspense file with the status of PENDING are updated to the IDCU ERROR status when an error has occurred in the return transmission of the HINQ string.

The HINQ package interfaces with the PIMS package allowing users to make HINQ Suspense file entries through select PIMS options. However, the MAS parameter, "Ask HINQ at Registration", and the MCCR parameter, "Ask HINQ in MCCR", must be set to YES in order to accomplish this.

The HINQ Package includes the following options/menus.

HINQUP Features

The options contained in this menu encompass all the updating features. These options are only available to holders of the DVBHINQ and DG ELIGIBILITY security keys.

Enter a Request in the HINQ Suspense File

This option is used to enter requests for inquiries into the HINQ Suspense file.

Generate HINQ Requests

This option is only available to holders of the HINQ security key, DVBHINQ. When requests for HINQ inquiries are entered through this option, PENDING entries in the Suspense file are transmitted to the VBA computer.

Individual HINQ Request

This option is only available to holders of the HINQ security key, DVBHINQ, and is used to immediately transmit requests for HINQ inquiries to the VBA computer. This option does not create Suspense file entries.

Print Suspense File Messages

This option is used to print a listing of those patients currently in the Suspense file with a HINQ response message. You may choose to print by patient, requestor or date/time.

Process the HINQ Suspense File

This option is only available to holders of the HINQ security key, DVBHINQ. It is used to release PENDING requests in the Suspense file to the VBA computer.

Status of HINQ By Patient

This option gives information about entries in the Suspense file including the HINQ response message if one has been received. Depending on how your site has this option set up, the option may only be available to holders of the HINQ security key, DVBHINQ.

Utilities for Suspense File

The options contained in this menu are used to perform HINQ utility functions such as purge entries in the HINQ Suspense file, delete an entry from the HINQ Suspense file, edit HINQ parameters and recompile HINQ templates. Depending on how your site has this menu set up, it may only be available to holders of the HINQ security key, DVBHINQ.

View the HINQ Suspense File

This option displays the entries in the Suspense file on the screen.

Orientation

The HINQ Technical Manual has been divided into major sections for general clarity and simplification of the information being presented. This manual is intended to be a reference document. While the user is free to review the document from "cover to cover", it is best used by reviewing specific sections which contain the information required for a particular need. The Files Section shows the pointer relationships between the HINQ files and files external to the HINQ package. This section also has a listing of each HINQ Input and Print template. The Implementation and Maintenance Section provides information on any aspect of the package that is site configurable. The Exported Options Section provides a menu diagram of the HINQ package. The Routines Section contains information about the HINQ routines, including a description of each, routines to map, and callable routines. The Security Section contains legal requirements and recommended VA FileMan access codes. Lastly, there are brief sections on archiving and purging, how to generate on-line documentation, and package-wide variables for the HINQ package.

Implementation and Maintenance

There are several parameters associated with the HINQ package that are site configurable. These include IDCU ADDRESS, IDCU USERNAME-PASSWORD, HINQ DEVICE NAME, BATCH DEVICE NAME, and RDPC (Regional Data Processing Center) TIME DIFFERENCE. They can be accessed through the Edit HINQ Suspense File Parameters option through the Utilities for Suspense File Menu. If you have never installed HINQ and/or do not have the old HINQ parameters, you must use the Edit HINQ Suspense File Parameters option to set the parameters (refer to the HINQ Menu Section of the HINQ User Manual for specific instructions).

Once the parameters are set, the system will update the parameters automatically. For example, the LAST NET-WORKDAY parameter contains the date of the previous NETWORK DAY and is set and updated by the system. If necessary, this parameter can be set to an earlier date to view the HINQ Suspense file for a time previous to the last network day.

There are two site configurable outputs. USE HIGH INTENSITY is used to turn on/off the appearance of boldface type and the blinking character on the HINQ screens. The blinking character (arrow, etc.) is used to bring attention to a discrepancy or error between data in the PATIENT file and the HINQ response. HINQ MAIL MESSAGES, if set to YES, will generate mail response messages for batch HINQ requests (i.e., when the Generate HINQ Requests and Process the HINQ Suspense file options are utilized). If set to NO, only the summary bulletin will be generated.

HL7 Z11 Crossmapping

Previously all crossmapping was processed through the HEC and MVR interface components by using two non-standard HL7 transactions. With the implementation of the HINQ Interim Solution Phase 1 enhancements, the new VBA data set is crossmapped by the AAC interface engine to the existing HINQ response, and the existing HL7 Z11 formats.

VBA Data Element Name	HINQ Layout Service Version 1.4 Line No.	ORU~/ORF~Z11 Segment	Sequence Name	Sequence Number
Veteran Name (Last, First, Middle & Suffix)	16,17,18,19	PID	Patient Name	5
Date of Birth	28	PID	Date/Time Of Birth	7
Sex Indicator	30	PID	Sex	8
Social Security Number	26	PID	SSN Number - Patient	19
Sensitivity (Security) Level	32	OBX	Observation Value	5
Type of Benefit	37	ZEL	ELIGIBILITY CODE (C&P Ent Code)	2
Veteran Name (Last, First, Middle & Suffix)	16,17,18,19	ZEL	LONG ID (CPO Stub)	3
Claim Number	34	ZEL	CLAIM FOLDER	6

VBA Data Element Name	HINQ Layout Service Version 1.4 Line No.	ORU~/ORF~Z11 Segment	Sequence Name	Sequence Number
			NUMBER	
Active Folder Location	35	ZEL	CLAIM FOLDER LOCATION	7
Computed	0	ZEL	ELIGIBLITY STATUS (BIRLS-DIAG-Verified)	10
Aid and Attendance Payee ("AANAGE"=yes)	90	ZEL	RECEIVING A&A BENEFITS?	14
Net Award Amount	44	ZEL	C&P Net Awd Amt	18
Competency Indicator	39	ZPD	RATED INCOMPETENT	8
Date Of Death	29	ZPD	DATE OF DEATH	9
POW Capture & Release Dates	131 & 132	ZPD	POW STATUS INDICATED?	17
Diagnostic Code (up to 30 occurrences, SC only)	77	ZRD	DISABILITY CONDITION	2
Diagnostic Percentage (up to 30 occurrences, SC only)	78	ZRD	DISABILITY %	3
Diagnostic Extremity	79	ZRD	Diagnostic Extremity	TBD
Diag-Org Effective Date of Service Connected Rating	80	ZRD	Original Effective Date SC Rating	TBD
Rating Date of SC per Disability	81	ZRD	Current Effective Date SC Rating	TBD
Combined % of Disability (SC only)	83	ZSP	Service Connected Percentage (CPO_COMB_Degree)	3
Permanent And Total Indicator	85	ZSP	P&T*	6
Employable Indicator	88	ZSP	Unemployable	7
P&T Effective Date	86	ZSP	P&T Effective Date	10
Effective Date of Combined Evaluation	84	ZSP	Combined % Effective Date	TBD

Changes to the existing Z11 messages to accommodate the new VBA data set will be:
- Sequence 5, Patient Name, in the PID Segment will be built from the Veteran Name fields (Last, First, Middle and Suffix) in the VBA response.
- Sequence 2, C&P Ent Code, of the ZEL Segment will be calculated based on the Type of Benefit Claim Code provided in the new VBA dataset, as follows: code C (compensation) will be converted to entitlement code 01, codes OLP, 306P and IP will be converted to entitlement code 0L. All other Type of Benefit Claim Codes applies to dependents' claims and will not be sent to the HEC during the Interim Solution.

- Sequence 3, CPO Stub, in the ZEL Segment will be built from the Veteran Name fields (Last, First, Middle and Suffix) in the VBA response.
- Sequence 9 in the ZEL Segment (BIRBLS_DIAG_VERIFIED) is left blank.
- Sequence 10 in the ZEL Segment (BIRLS_DIAG_VERIFIED) will be left blank;
- Sequence 14, Receiving A&A Benefits?, in the ZEL Segment will be set to code 2 when the VBA dataset includes Aid and Attendance Payee = AANAGE.
- Sequence 17, POW Status Indicated?, in the ZPD Segment will be set to "Yes" when the VBA dataset includes a POW Capture and/or a POW Release Date.
- Sequence 12,13,14 is added to the ZRD Segment. They will occur for each disability code that is present in the VBA response. The new data elements are Diagnostic Extremity (Bilateral factor). Rated Disability original effective date, and Rated Disability current effective date.
- Sequence 6, P&T Indicator, and a new sequence 10 for the P&T Effective Date, in the ZSP Segment will become a part of the Z11~ORU routinely sent to the HEC by MVR. If VBA P&T Indicator = PTNSC, then Sequence 6 will be set to 1 (Yes). If VBA P&T Indicator is anything else, then Sequence 6 will be set to 0 (No). Sequence 10, P&T Effective Date will have a date only when Sequence 6, P&T Indicator, is set to "Yes."
- Sequence 11 for the Combined SC% Effective Date is added to the ZSP Segment.
- Data Dictionary modifications made to the Veterans ID & Verification Access (#300.11) file (New Fields)=P&T Effective Date, Combined SC Percent Effective Date, Rated Disabilities, DX Extremity Bilateral Factor, Disability Original Effective Date, Disability Current Effective Date.
- HEC Error Processing Project (#743085) (New Fields)=P&T Effective Date 2;5 Node piece, field # 8.1.,Combined SC Percent Effective Date 2;6 Node piece, field #8.2.,Rated Disabilities 2;5 Node piece, field #9.,DX Extremity Bilateral factor -0;5 Node piece, field #4.

Disability Original Effective Date -0, 6 Node piece, field #5.,Disability Current Effective Date - 0;7 Node piece, field # 6.
- Template Modifications:

The IVME enter VIVA input template was modified to include the following Rated Disabilities (#300.119) subfields from the Veterans ID and Verification Access (#300.11) file.=DX Extremity Bilateral Factor field #4.,Disability Original Effective Date field #5.,Disability Current Effective Date field #6.

HINQ Z11 Transaction

V*ist*A HINQ queries that are received by the e*Gate server are automatically reformatted to suit the new VBA query process standards. These HINQ transactions are updated with simultaneous Z11 messaging that is processed for HEC

Listed below are the following bullets that describe the process

- ❖ The e*Gate server reformats the VBA response to fit the requirements of an existing **V***ist***A** HINQ response before returning it to the requested site
- ❖ **V***ist***A** HINQ response is automatically released by the e*Gate server, where a simultaneous HL7 unsolicited update is generated
- ❖ It is passed to the HEC through the MVR

Based upon the current HINQ volume, it is estimated that an average of 65,000 additional HL7 unsolicited updates are processed per week.

Routines

Take the following steps to obtain a list of routines found in the HINQ DVB*4.0*49 software package listed below in the menu diagram.

```
DEV,VOO>D P^DI
VA FileMan 22.0
Select OPTION:    PRINT FILE ENTRIES
OUTPUT FROM WHAT FILE: ROUTINE//
SORT BY: NAME//
START WITH NAME: FIRST// DVBHCZ
GO TO NAME: LAST// DVBHZ
  WITHIN NAME, SORT BY:
FIRST PRINT FIELD: NAME
THEN PRINT FIELD:
Heading (S/C): ROUTINE LIST//
START AT PAGE: 1//
DEVICE:  UCX/TELNET    Right Margin: 80//
```

HEC to MVR Eligibility Query Diagram

HEC to MVR Eligibility Query
(Z11 Query)
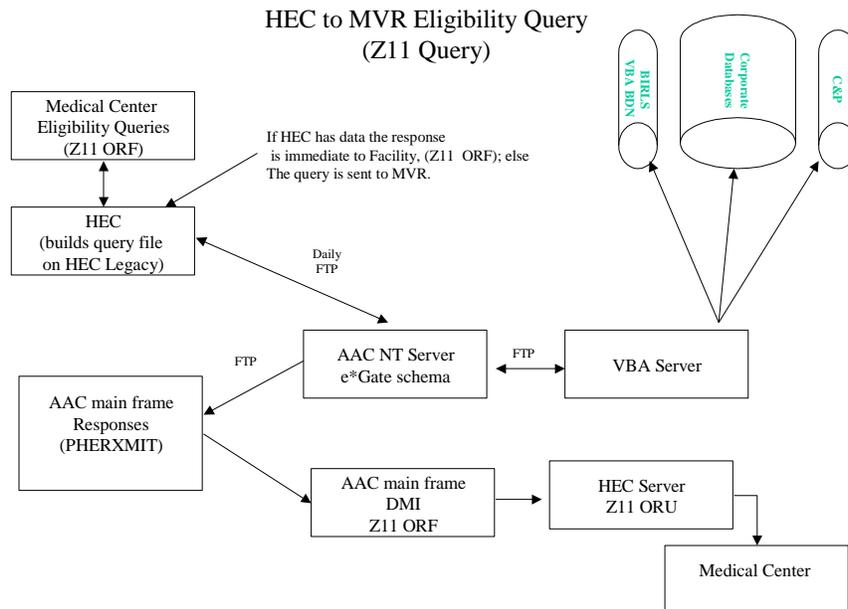
HEC Z07 & Z11 Processing

The following steps apply strictly to processing VistA Z07 and Z11 messages. The Z11 receiver process will automatically recognize the following new data fields:

> ➢ Combined % Effective Date, and for each disability code.
> ➢ The Diagnostic Extremity code.
> ➢ Original Effective Date of SC Rating.
> ➢ Current Effective Date of SC Rating

These new data fields are received from the HEC and are stored in the Patient file.

Currently there are no changes made to the outgoing Z07's to HEC to include the P&T Effective date and four new additional fields.

1. The Service Connected Calculator, and the SC percent over-ride calculator, which adds an additional 10% to the Combined Percentage in selected pension cases; however both will be disabled. VBA will provide the correct Combined Percentage (ZSP, Seq 3).
2. Processing to verify eligibility is updated to use the following rules:
   > ➢ If Entitlement Code = 0L and total check amount >$0 then YES to Receiving VA Pension and NO to Receiving VA Disability even if SC rated conditions are present. Enter SC = YES if SC rated conditions are present.
   > ➢ If Entitlement Code = 01 or Null and SC rated conditions are present and total check amount >$0 then YES to SC and YES to Receiving VA Disability.
   > ➢ If Entitlement Code = 01 or Null and SC rated conditions are present and total check amount =$0 or Null then YES to SC and NO to Receiving VA Disability.
   > ➢ If Entitlement Code = Null and no SC rated conditions are present and total check amount =$0 or Null, then use data in site records to try to build a verified eligibility record.

HEC Processing HINQ Z11~ORU

1. The consistency check, "Potential Missing Rated Disabilities," is not included in the processing for the Z11~ORU.
2. The consistency check, "Potential SC% reduction," is removed from the Z11~ORU upload process.

The VBA Push is triggered by a VBA award action which includes updates that are initiated in the Corporate database for all disabilities of record.

e*Gate Server transaction Handling

HINQ Transactions with Simultaneous Z11 Update for HEC

V_ist_**A** HINQ queries that are received by the e*Gate server are automatically converted to accommodate the new VBA query convention. The following guideline defines the process.

➢ The e*Gate server reformats the VBA response to fit the requirements of the existing **V**_ist_**A** HINQ response before returning it to the requested site.
➢ HINQ response is automatically released by the e*Gate server.
➢ A simultaneous HL7 unsolicited update is generated to the HEC (the HINQ Z11-ORU).
➢ HINQ Z11-ORU transactions are sent to the HEC every 30 minutes.

Currently it is estimated that an average of 65,000 additional HL7 unsolicited updates is processed each week.

HEC Queries to MVR

The e*Gate server will automatically receive HEC eligibility queries from MVR. They are converted to conform with the new VBA query process requirements. The following outline illustrates each step:

➢ e*Gate server reformats the VBA response to conform to the requirements of the existing HL7 solicited update response (Z11~ORF) message.
➢ This function is returned to the HEC through the MVR server.
➢ A secure FTP is used to send all HEC queries to VBA nightly.

VBA Push Updates to HEC

The e*Gate server receives unsolicited updates from VBA. The following outline describes the process.
➢ The query is reformatted to conform to the requirements of an existing HL7 unsolicited update (Z11~ORU).
➢ The Z11 update is then forwarded to the HEC by the MVR server.

Files

Globals and Files

The main global used in the HINQ package is ^DVB. The main file is the HINQ Suspense file (#395.5) located in global ^DVB(395.5,.

It is recommended, but not required, that global ^DVB be journaled.

Field 14.9 of the NEW PERSON file must contain a unique HINQ employee number for each user with the HINQ password.

File List

Take the following steps to obtain a file list found in the HINQ DVB*4.0*49 software package listed below in the menu diagram. **Note**: the ENTITLEMENT CODES (#395.1) file and the DIARY DEFINITIONS (#395.4) file are no longer used.

Menu Diagram

```
Select OPTION:    PRINT FILE ENTRIES

OUTPUT FROM WHAT FILE: FILE//
SORT BY: NAME//    NUMBER
START WITH NUMBER: FIRST// 395
GO TO NUMBER: LAST// 395.99
  WITHIN NUMBER, SORT BY:
FIRST PRINT ATTRIBUTE: NAME
THEN PRINT ATTRIBUTE:
Heading (S/C): FILE LIST//
START AT PAGE: 1//
DEVICE:   UCX/TELNET    Right Margin: 80//
```

Bulletins

HINQ contains a bulletin, DVB HINQ RESPONSE, which will be sent when the processing of the HINQ Suspense file has returned with information. It will contain the number of successful responses, abbreviated responses and error responses. The patient names will be provided with the error responses.

Compiled Templates

Template	Routine	Type
DVBHINQ UPDATE	DVBHCE*	Input
DVBHINQ PAT-HINQ COMP	DVBHCG*	Print

These templates can be compiled/recompiled through the recompile option in the utilities option of HINQ.

HINQ Response from AITC

HINQ Requests are generated either from Pending Requests out of the Suspense (#395.5) file or by direct individual HINQ requests. AITC responds to each HINQ request with a single large variable length string of approximately 1500 characters referred to as the HINQ Response. Within the variable length response string are fixed length data elements. Not all segments may appear, giving the string a variable length.

HINQ Response Segments

A detailed description of the HINQ Response data elements appear in Appendix A. The HINQ Response segments are as follow:

Header Section - A 6 field string containing the veteran DFN identifier, response string length and response codes.

Basic Segment – A 101 field data segment containing details of the veteran's claim including claim number, award amounts, and details related to the claim. The most recently added fields to this segment are the pension fields. If the award is a pension, this segment will contain the pension award effective date, termination dates, and reason codes.

Statistical Segment – A string containing general marital history, competency determination and disability information. The most recently added fields to this segment are the Permanent and Total Effective date and the DD214 Dental Indicator.

Diagnostic Segment – A data segment containing the detailed service connected diagnostic data for up to 150 codes including percent service connected disability and effective date.

Child/Birth Segment – If there are any children, for each child, this segment contains fixed length sections including the date of birth and status of each child.

Address Segment – A fixed length segment of 145 characters containing the veteran's current address.

Reference Number Segment – A short segment containing the social security number.

Income Segment – A data segment containing details of current and past year income including adjustments.

Monthly Retirement Segment – A data segment containing the verified retirement amount.

BIRLS Segment – A 24 field data segment containing the Beneficiary Identification Records Locator Subsystem (BIRLS) data. BIRLS contains basic identifying information on a VA claimant including service information.

HINQ end of string delimiter – A hard coded 'NNNN' to indicate the end of the HINQ Response string.

Transfer to the Suspense (#395.5) file

The Suspense (#395.5) file is subscripted with the patient's DFN. The HINQ Response string for a patient is deposited into the patient's Suspense (#395.5) file entry on the "RS" node as a multiple field in 245 character consecutive chunks. As a typical example, a test data set is shown below. In this test data the patient's DFN, '523388976', of the HINQ Response Header Section (see Appendix A) begins at the 8th character position of the first "RS" string.

```
^DVB(395.5,523388976,"RS",1,0)="HINQ2  523388976      918499995153 100      AJDOCX
ZN       01          24300      24300  015        0   01                    1
         H       0  1
                              "
^DVB(395.5,523388976,"RS",2,0)="                  M 0326195111221957 02081933
           N       MAXZARET                           0

                              "
^DVB(395.5,523388976,"RS",3,0)="


                              "
^DVB(395.5,523388976,"RS",4,0)="                            145 101775    TJOXZ DAX
ZEL OCXZNELLK5 ADXZS DRIVE+STXZ MA
                              666243428
          .00                 "
^DVB(395.5,523388976,"RS",5,0)="
                         66624342811223565                    JOXZ DAXZEL
 OCXZNELL                  "
^DVB(395.5,523388976,"RS",6,0)="

                ARMY       03261951            11221957
 HON     0            1    M   Y 2 "
^DVB(395.5,523388976,"RS",7,0)=" 20 08182008610010   08182008081820008626010   08
18200808182008         "
```

Parsing the Suspense (#395.5) File

The Suspense file is parsed following the HINQ Response data layout in Appendix A. The individual fields are placed in subscripted local variables and passed to the requesting operation either for display or for selective updating of the patient's file.

Exported Options

The HINQ product exports 2 menu structures. These are HINQ Menu and HINQ User Menu (excludes all Utilities for Suspense File options).

HINQ Transaction Test - This option is used to determine if the communication link between the hospital and the VBA is functioning properly. It will function exactly like the individual HINQ request but there is no user intervention. As this option executes, it will display the steps it is taking on the screen. The transaction test will always return an error indicating that the password is invalid if the link is up and running

Archiving and Purging

Although the HINQ package does not have an actual archiving feature at this time, the Purge Suspense File option allows old entries in the HINQ Suspense file to be deleted. This serves the same purpose as an archiving feature because it frees up space for current entries in the HINQ Suspense file. Deletion of the old entries through the Purge Suspense File option is permanent, whereas deletion through an archiving feature would not be.

The recommended procedure is to queue the AUTO HINQ PURGE option through TaskMan to run on a monthly basis. This will maintain the size of the HINQ Suspense file.

External/Internal Relations

External Relations

FileMan Version 18
Kernel Version   6.5

All HINQ responses when using the "Individual" option are transferred to MailMan messages with a call to XMD using standard MailMan conventions. HINQ requests entered into the Suspense file are stored there for future use. A Bulletin will be sent to the DVBHINQ mail group to notify members of returned HINQ responses after processing of the Suspense file has taken place.

When utilizing the Update HINQs to the Patient file option, the MAS consistency checker will be run if a patient's data is updated with HINQ information. This is done to correct any inconsistencies in the patient's record. It is a direct call to the ^DGRPC MAS routine.

Information concerning the functionality of the consistency checker may be found in the PIMS User Manual.

HINQ will now utilize the NEW PERSON file instead of the USER file. The HINQ EMPLOYEE NUMBER (field 14.9) was write protected in the NEW PERSON file. HINQ has obtained permission to take the write protection off Field 14.9 of the NEW PERSON file and place it on Field 14.9 of the USER file. This way the sites can update the HINQ EMPLOYEE NUMBER using FileMan.

Internal Relations

Stand-alone files

395.2 Anatomical-Loss Codes
395.3 Monthly Compensation

Stand-alone options

Enter a Request in the HINQ Suspense File
View the HINQ Suspense File
Edit HINQ Suspense File Parameters
Delete Entry from HINQ Suspense File

Package-Wide Variables

There are no package-wide variables associated with the HINQ package.

Key Variables

Listed below are a few of the many important variables associated with the HINQ package.

DVBDEV	IDCU device
DVBERR	VBA error message
DVBIP	TCP/IP address
DVBLOG	RDPC IDCU code
DVBLEN	Length of HINQ response string from VBA
DVBNUM	Employee number
DVBSTN	Station number
DVBZ	HINQ request string
X(N)	Receives HINQ response from RDPC

Security

General Security

With the storage of the returning HINQ information, a check sum has been developed to insure the integrity of the stored data. If the HINQ information in the Suspense file has been adjusted since the last HINQ, a warning message will appear (see below) and the HINQ data will not be accessible.

"HINQ data does NOT seem right
 Re-HINQ and/or Notify system manager.
 HINQ check sum failure for {patient name}"

Security Keys

DVBHINQ   Access to options requiring HINQ password
DG ELIGIBILITY   Access to Update HINQs to the Patient File option

VBA/VBA Security

The VBA has set up a new Common Security Services table in their database to control access to VBA data from VHA and other entities. In order to obtain the VBA employee number and password, VA Form 20-8824e, Common Security Services (CSS) User Access Request form must be completed and forwarded to the facility's supporting VBA Regional Office. The form is normally completed by the facility's ISO, but the responsibility may have been delegated to others, such as a HINQ coordinator or to IRM. The application access to request is "Web HINQ." Once the VBA ISO has updated the Common Security file with information about the employee, the Employee Identification Number (EIN) and password will be returned to the facility. The EIN is the HINQ Employee Number and must be loaded in the NEW PERSON file as explained in External Relations above.

Legal Requirements

There are no known legal requirements associated with this package.

Performance Requirements

Latency

Latency controls the actual amount of time a transaction can travel through the network. Response times are affected through this process primarily because of the following elements:

➢ Whenever a HINQ query requires a response from three different databases.
➢ A build-up of traffic on the network, which can cause some of the segments to process slower than others.

In order to avoid prolong delays that are caused by the demands of the processor's resources HINQ has developed a delay mechanism that will automatically trigger whenever a response is not received in a adequate amount of time.

Packet Sizing

Data is broadcast through this network communication process. The VistA processor will automatically transmit a packet of data to the target processor that opens the communication channel. The target processor then returns an acknowledgment to the sender. During the initial testing it was discovered that a change in the packet size had caused HINQ processing to fail with certain platforms. This discovery has caused VBA to re-evaluate restoring the size of their packets to 256 bytes.

VA FileMan Access Codes

FileMan Access Codes are not sent out with any of the HINQ files. Below is a list of the suggested FileMan Access Codes associated with each file that belongs to the HINQ package.

FILE NUMBER	FILE NAME	DD ACCESS	RD ACCESS	WR ACCESS	DEL ACCESS	LAYGO ACCESS
395	DVB PARAMETER	#	D	d	d	d
395.2	ANATOMICAL LOSS CODES	@	D	@	@	@
395.3	MONTHLY COMPENSATION	@	D	@	@	@
395.5	HINQ SUSPENSE	#	D	d	d	d
395.7	HINQ AUDIT	#	D	d	d	d

How to Generate On-line Documentation

This section describes some of the various methods by which users may secure HINQ technical documentation. On-line technical documentation pertaining to the HINQ software, in addition to that which is located in the help prompts and on the help screens found throughout the HINQ package, may be generated through utilization of several KERNEL options. These include, but are not limited to: XINDEX, Diagram Menus, MenuMan Inquire to OPTION File and Print OPTIONS file, and VA FileMan List File Attributes.

Entering question marks at the "Select...Option:" prompt may also provide users with valuable technical information. For example, a single question mark (?) lists all options which can be accessed from the current option. Entering two question marks (??) lists all options accessible from the current one, showing the formal name and lock for each. Three question marks (???) displays a brief description for each option in a menu while an option name preceded by a question mark (?OPTION) shows extended help, if available, for that option.

For a more exhaustive option listing and further information about other utilities which supply on-line technical information, please consult the KERNEL REFERENCE MANUAL.

XINDEX

This option analyzes the structure of a routine(s) to determine in part if the routine(s) adheres to Programming Standards. The XINDEX output may include the following components: Compiled list of Errors and Warnings, Routine Listing, Local Variables, Global Variables, Naked Globals, Label References, and External References. By running XINDEX for a specified set of routines, the user is afforded the opportunity to discover any deviations from Programming Standards which exist in the selected routine(s) and to see how routines interact with one another, that is, which routines call or are called by other routines.

To run XINDEX for the HINQ package, specify the following at the "routine(s) ?>" prompt: DVBH* (-) DVBHC*.

HINQ initialization routines and compiled template routines which reside in the UCI in which XINDEX is being run, as well as local routines found within the HINQ namespace, should be omitted at the "routine(s) ?>" prompt. To omit routines from selection, preface the namespace with a minus sign (-). Use an apostrophe (') to accomplish this.

Diagram Menus

To print the complete HINQ Menu, enter DVB HMENU-HINQ at the first prompt.
To print the HINQ User Menu, enter DVB HMENU-USER at the first prompt.

Inquire to Option File

This MenuMan option provides the following information about a specified option(s): option name, menu text, option description, type of option, and lock, if any. In addition, all items on the menu are listed for each menu option.

To secure information about HINQ options, the user must specify the name or namespace of the option(s) desired. The namespace associated with the HINQ package is DVB.

Print Options File

This utility generates a listing of options from the OPTION file. The user may choose to print all of the entries in this file, or may elect to specify a single option or range of options. To obtain a list of HINQ options, the following option namespace should be specified: DVB.

List File Attributes

This FileMan option allows the user to generate documentation pertaining to files and file structure. Utilization of this option via the "Standard" format will yield the following data dictionary information for a specified file(s): file name and description, identifiers, cross-references, files pointed to by the file specified, files which point to the file specified, input templates, print templates and sort templates. In addition, the following applicable data is supplied for each field in the file: field name, number, title, global location, and description, help prompt, cross-reference(s), input transform, date last edited and notes.

Using the "Global Map" format of this option generates an output which lists all cross-references for the file selected, global location of each field in the file, input templates, print templates and sort templates.

If you are running Kernel 7/FileMan 19, List File Attributes will be found under the Data Dictionary Utilities.

For a comprehensive listing of HINQ files, please refer to the FILE Section of this manual.

Glossary

BIRLS   Beneficiary Information and Records Locator Subsystem

C&P   Compensation and Pension

DVBHINQ   A security key in the HINQ package.

HINQ employee number   A number entered into the NEW PERSON file for each user who has a HINQ password. It is distributed by VBA and uniquely identifies each user to VBA.

HINQ Response   Response from VBA computer to a HINQ request.

HINQ Suspense File   File which serves 2 major functions - stores HINQ requests for later processing and serves as a log in that HINQ responses are entered here.

HINQ Suspense File statuses		
	Pending	request awaiting transmission
	New Mail	successful response received
	Error	error occurred in the processing of this inquiry at the VBA computer
	IDCU error	error occurred in the return transmission of the HINQ string

IDCU   Integrated Data Communications Utility

VBA   Veterans Benefits Administration

APPENDIX A – AITC HINQ RESPONSE

Field name C&P Record	HINQLayout data element Set Description from Corporate	Type	Length	Description
HEADER SECTION				
command	HINQ	alpha	4	value = "HINQ" - indicates that this is a Hospital Inquiry
BIRLS Response code	2, 6, 9, B, C, D	alpha or numeric	1	2 = record is returned. C = retry, D = Sensitivity level restriction, 9 = Invalid Psw, 6 = Invalid UserID/Your Userid has been locked/You do not have the authority to run the requested application, B = Problem on Database/retry
C&P Response code	blank	blank	1	
expansion	blank	blank	1	
DFN	blanks	blank	14	
message length	Calculated	numeric	4	length of the response message string
BASIC SEGMENT				
Claim Number	Claim Number	alpha	9	
Benefit Indicator	enter 1	alpha	1	always has a value of one
Payee Number	enter 00	numeric	2	indicates veteran
Last disk update	blanks	blank	5	
Record Type	enter A	alpha	1	always has a value of A
Veteran name	parse from:			name format if the name is longer than the 20 characters allowed for address line 1.1. drop the suffix 2. if still too long drop all but the middle name initial 3. if still too long drop all but the first name initial 4. if still too long truncate the last name.
First Initial	Veteran First Name	alpha	1	
Middle initial	Veteran Middle Name	alpha	1	
Surname	Veteran Last Name	alpha	5	first 5 characters of last name
Activity	blank	blank	3	
Date last activity	blank	blank	5	
Station	last 2 char from Active Folder Location	numeric	2	station number code: return last 2 digits
Recoupment	blank	blank	1	

Field	Source	Type	Len	Notes
PFOP/FDIB	blank	blank	1	
Consolidated payment	blank	blank	1	
Deduction/balance	blank	blank	1	
Burial Award	blank	blank	1	
Clothing allowance	blank	blank	1	
Headstone	blank	blank	1	
Mail code	blank	blank	3	
Net award amt	Net Award Amount	numeric	6	(pertains only to veteran) will be formatted to nnnn.nn/ code removed decimal return nnnnnn
Net award date	blank	blank	8	
Check amt	Check Amount	numeric	6	will be formatted to nnnn.nn/ code removed decimal return nnnnnn
expansion	blank	blank	1	
Entitlement code	Type of benefit	numeric	2	306P, IP, OLP = 0L; C = 01; 306DP, IDP, OLDP, 1312A, DIC, DICP, DICR, DC, BD, SB, CA, EORP, ME, MOH, NSCAI, NSCBB, NSTC, PA, SCBB, SCT, SPA, TA = " " (i.e. blank blank). VBA will return up to 20 codes. The first code in the list is used by HINQ to populate Entitlement code.
Address lines	5	numeric	1	number of address lines in record - always 5
Insurance change segment	blank	blank	1	
Tax indicator	blank	blank	1	
Chief attorney	Chief Attorney, Fiduciary	numeric	2	
Change reason	blank	blank	2	
CHAMP/VA indicator	blank	blank	1	
CARS segment indicator	blank	blank	1	
Dependency	Total Number of Children	numeric	2	total dependents this award
	Children Count for a max of 20	numeric	2	total dependents this record
Children in school	blank	blank	1	
Helpless children	blank	blank	1	
Service organization	Power of Atty/Svc Org or Priv Atty	numeric	2	Power of Attorney/Service Org Only using 2nd & 3rd char from VBA
EVR Control code	blank	blank	1	
EVR type	blank	blank	1	
Income code	blank	blank	5	

Special law code	Medal of Honor	alpha	2	
Net worth	blank	blank	2	
Net worth custodian/spouse	blank	blank	2	
A&A	Aid And Attendance payee	alpha	1	Aid & Attendance/Housebound - payee AANAGE =A; HBVESMPIF=H; else Blank
Purge Indicator	blank	blank	1	
Active folder locator	blank	blank	1	
Veteran SSN verified	Verified SSN Indicator	alpha	1	0=Not verified, 1=verified(code makes no checks)
BSSI indicator	blank	blank	1	
Payee/spouse SSN verified	blank	blank	1	
expansion	blank	blank	1	
Check stuffer	blank	blank	1	
Med. Benefits code	blank	blank	1	
expansion	blank	blank	1	
Benefit change indicator	blank	blank	1	
Auto allowance paid	Auto Allowance Paid	alpha	1	
Auto adapt. Equip. paid	Auto Adapt Equipment Paid	alpha	1	EAEO=E, EAAE=A, NEAAE=N, or Null
Special adapt. housing paid	Special Adaptive Housing paid	alpha	1	
Nursing home indicator	blank	blank	1	
Character of Discharge	Character of Service (from MOST recent period)	alpha	1	H=Honorable, D=Dishonorable, U=Uncharacterized, O=Other(code makes no checks)
Original award effective date	blank	blank	8	
Mailing list indicator	blank	blank	1	
Security level	Sensitive Check Level	alpha	1	
Incarceration	blank	blank	1	
POW indicator	calculate this: 0=none, 1<30, or 2=>30; no POW dates is a blank (" ")	alpha	1	
Statistical segment type	enter 1	numeric	1	0=none, 1=A, 2=B, 3=C(we always return '1')
Birth segment code	blank	blank	1	
Withholding/apportionment	blank	blank	1	
Non-recurring payment	blank	blank	1	

Accrue payment	blank	blank	1	
Irregular payment	blank	blank	1	
Pay change segment ind	blank	blank	1	
DD/EFT segment ind	blank	blank	1	
Reference segment ind	blank	blank	1	
Proceeds segment ind	blank	blank	1	
Military pay status code	No Payment Status Code	numeric	1	0=none, 1=present(code makes no checks)
Manila payment code	blank	blank	1	
Suspense Segment ind	blank	blank	1	
No payment status code	blank	blank	1	
Futures error	blank	blank	1	
Diagnostics error	blank	blank	1	
Statistical error	blank	blank	1	
Basic error	blank	blank	1	
Future segment ind	blank	blank	1	
Prior segment ind	blank	blank	1	
Income segment ind	blank	blank	1	
Monthly retirement segment ind	blank	blank	1	
Rate not supported	blank	blank	1	
Over age 72	blank	blank	1	
VRE Account record	blank	blank	1	
REPS indicator	blank	blank	1	
Active reservist	blank	blank	1	
Reservist # days waived	blank	blank	3	
Audit related A/R indicator	blank	blank	1	
expansion	blank	blank	3	
Pension Award Effective Date	Pension Award Effective Date	numeric	8	ddmmyyyy
Pension Award Reason Code	Pension Award Reason Code	alpha	12	If Pension Award Effective Date is not NULL, Pension Award Reason Code = the first non-NULL Pension Award Reason Text value
Pension Award Termination Date	Pension Award Termination Date	numeric	8	ddmmyyyy
Pension Termination Code 1	Pension Award Reason One Text	alpha	12	If Pension Award Termination Date is not NULL, Pension Termination Code 1 = Pension Award Reason One Text
Pension Termination Code 2	Pension Award Reason Two Text	alpha	12	If Pension Award Termination Date is not NULL, Pension Termination Code 2 = Pension Award Reason Two Text

Pension Termination Code 3	Pension Award Reason Three Text	alpha	12	If Pension Award Termination Date is not NULL, Pension Termination Code 3 = Pension Award Reason Three Text
Pension Termination Code 4	Pension Award Reason Four Text	alpha	12	If Pension Award Termination Date is not NULL, Pension Termination Code 4 = Pension Award Reason Four Text

STATISTICAL SEGMENT		**Type A**		**for record type A**
Blind indicator	Blind Indicator	alpha	1	"B=Blind"
Sex	Sex Indicator	alpha	1	M/F
Branch of service	blank	blank	1	
EOD	EOD Date (from most recent period)	numeric	8	ddmmyyyy
RAD	RAD Date (from most recent period)	numeric	8	ddmmyyyy
Additional Service	blank	blank	1	
DOB - vet	Date of Birth	numeric	8	ddmmyyyy
misc code	blank	blank	2	
expansion	blank	blank	1	
Combat_Disabled_Iindicator	blank	blank	1	
Employable	Employable Indicator	alpha	1	N employable, Y =unemployable
Competency	Competency Indicator	alpha	1	Possible codes are: C, CC, IR, ICC, LDC, PIC, DEFC; C, CC, PIC & DEFC = C competence, ICC, IR & LDC = I incompetent
Spouse A&A/HB	blank	blank	1	
Competency payment status	blank	blank	1	
Special provision code	Permanent and Total Indicator	alpha	1	set to 3 if the VBA response is PT35 and to 2 if the VBA response is NPT35
Special monthly comp. code	blank	alpha	2	
Loss of use code	Loss of use Code	alpha	2	
Anatomical loss code	Anatomical Loss Code	alpha	2	
Other loss code	Other Loss Code	alpha	1	
Vet married to vet code	Veteran Married to	alpha	1	Y(straight copy)

	Veteran			
DOB - Spouse	Spouse Birth Date	numeric	8	ddmmyyyy
Spouse first name	Spouse First Name	alpha	10	
Hospital SMC code	blank	blank	2	
DOB - father	blank	blank	8	
DOB - mother	blank	blank	8	
expansion	blank	blank	4	
Permanent and Total Effective Date	Permanent and Total Effective Date	numeric	8	ddmmyyyy
DD214 Dental Indicator	DD214 Dental Indicator	alpha	1	If VBA value = 'Y', set to 'N' If VBA value = 'N', set to 'Y'
DIAGNOSTIC SEGMENT				
# SC diagnostic codes	Diagnostic Count for a maximum of 150	numeric	3	
Combined disability %	Combined % Of Disability	alpha	3	If the Combined % Of Disability is not present in the Corporate database as RATING_AWARD_DETAIL Sc_Combnd_Pct_Nbr, then it will be calculated from the current SC disabilities and returned as Comb-Deg (3) from BDN.
Effective Date of Combined Evaluation	Effective Date of Combined Evaluation	numeric	8	ddmmyyyy
code/percent/extremity/effective date/rating date				(up to 150 occurrences - if empty use blanks)
Code	Diagnostic Code	alpha	4	
% disability	Diagnostic Percentage (%)	numeric	3	
Diagnostic Extremity	Diagnostic Extremity	alpha	2	
Original Effective Date Of Service Connected Rating	Original Effective Date Of Service Connected Rating	numeric	8	ddmmyyyy
Rating Date of SC Per Disability	Rating Date of SC Per Disability	numeric	8	ddmmyyyy
expansion	blank	blank	1	

CHILD/BIRTH SEGMENT				
Total # children	Total Number Of Children	numeric	2	
# child segments	Children Count for a max of 20	numeric	2	
child data				(up to 20 occurrences - blanks if not used)
DOB	Child Birth Date	numeric	8	ddmmyyyy
Status	Child Status	alpha	1	A=AASP, H=HC, M=MC, N=NAWDDEP, P=PAR, S=SCHCHD
First name	Child First Name	alpha	10	
Withholding/APP Segment	Blanks for 20	blank	20	
ADDRESS SEGMENT				
expansion	blank	blank	1	
Length of segment	total of 145 in length	numeric	3	always 145
Sequence control	blank	blank	1	
Name line indicator	1	alpha	1	which of the address lines holds the name - always 1
Zip code	Zip Code Prefix; Zip Code First Suffix	alpha	9	
Line length code	this and the following line	alpha	1	these two fields repeated up to 6 times (see HINQ Ref for codes)
Address line	are 145 in length	alpha	var	
expansion	blank	blank	var	use to expand to 145 characters for the address segment
REF NUMBER SEGMENT				
Ref # for Type A Ref segment	Social Security Number	alpha	9	
Ref # for Type C Ref segment	blanks	blank	9	
Ref # for Type X Ref segment	blanks	blank	9	
INCOME SEGMENT				
Income segment type	blank	blank	1	
Payment reduced indicator	blank	blank	1	
No Adj necessary indicator	blank	blank	1	
Acct not automatically adj ind	blank	blank	1	

field name	HINQLayout6 data element	type	length	description
Payment increased indicator	blank	blank	1	
Retro decrease made indicator	blank	blank	1	
Increase protected by spec law	blank	blank	1	
Retro increase made indicator	blank	blank	1	
Indiv underestimated income ind	blank	blank	1	
Source of payee income	blank	blank	1	
Source of spouse income	blank	blank	1	
Previously reported income	blank	blank	5	
Income reported this year	blank	blank	5	
Last calendar year reported	blank	blank	4	
Income for VA purposes	Income For VA purposes	numeric	5	will be formatted to nnn.nn/ code removed decimal return nnnnn
Type medical or last expense	blank	blank	1	
Amt of medical or last expense	blank	blank	5	
Transaction 13Q processed	blank	blank	1	
expansion	blank	blank	2	
Transaction 45 processed	blank	blank	1	
expansion	blank	blank	1	
Transaction 47 processed	blank	blank	1	
Transaction 47I processed	blank	blank	1	
expansion	blank	blank	2	
Transaction 48 processed	blank	blank	1	
Transaction 48G processed	blank	blank	1	
Transaction 49 processed	blank	blank	1	
Ver SS adjusted by COLA	blank	blank	1	
Hardship expense	blank	blank	5	
expansion	blank	blank	1	
MONTHLY RETIREMENT SEG				
# retirement segments	blank	blank	2	
expansion	blank	blank	3	
(retirement data)				
Type retirement income	blank	blank	3	
Verified monthly amount	blank	blank	6	
Reported monthly amount	blank	blank	6	
field name	HINQLayout6 data element	type	length	description
BIRLS	Set Description from Corporate			(this part is added to the C&P message)

SSN	Social Security Number	alpha	9	
Service number	Military Service Number	alpha	9	(occurs three times)
Alternate name	Prior First Name, Middle, Last, Suffix	alpha	63	(occurs three times)
DOD	Date Of Death	alpha	8	MMDDYYYY
Service data				
Branch	Branch Of Service	alpha	4	(occurs three times, use blanks if empty) (Air_Force "AF") (Air_Force_Academy "AFA") (Air_Force_Reserve "AFR") (Air_National_Guard "AFNG") (Army "ARMY") (Army_Air_Corps_or_Army_Air_Force "AAC") (Army_National_Guard "ARNG") (Army_Reserves "AR") (Coast_Guard "CG") (Coast_Guard_Academy "CGA") (Coast_Guard_Reserves "CGR") (Marine_Corps "MC") (Marine_Corps_Reserves "MCR") (Merchant_Marine "MM") (Naval_Academy "NA") (Navy "NAVY") (Navy_Reserves "NR") (Public_Health_Service "PHS")
EOD	EOD Date	alpha	8	MMDDYYYY (occurs three time - use blanks if empty)
RAD	RAD Date	alpha	8	MMDDYYYY (occurs three time - use blanks if empty)

Character of service	Character Of Service	alpha	3	(occurs three times, use blanks if empty) (BAD_CONDUCT "BAD") (DISHONORABLE "DIS") (DISHONORABLE_FOR_VA_PURPOSES "DVA") (GENERAL "GEN") (HONORABLE "HON") (HONORABLE_FOR_VA_PURPOSES "HVA") (OTHER_THAN_HONORABLE "OTH") (UNCHARACTERIZED "UNC") (UNCHARACTERIZED_ENTRY_LEVEL "UEL") (UNDER_HONORABLE_CONDITIONS "UHC") (UNDESIRABLE "UND") (UNKNOWN "UNK") (UNSUITABLE "UNS") (UNVERIFIED "UNV")
POW - number of days	calculate POW Capture Date - POW Release Date	alpha	4	
Total active service	Total Active Service	alpha	6	
Current folder location	blank	blank	3	
Verified SS indicator	Verified SSN Indicator	alpha	1	
VA employee ID	VA Employee	alpha	1	
Vietnam service indicator	Vietnam Service Indicator	alpha	1	
Disability indicator	Disability Decision	alpha	1	
Medal of honor indicator	Medal Of Honor	alpha	1	
Active duty training indicator	Active Duty Training Indicator	alpha	1	
Sex	Sex Indicator	alpha	1	
Guardianship case indicator	Guardianship	alpha	1	
Incompetent indicator	Competency Indicator	alpha	1	
C&P record indicator	blank	blank	1	
Service data verified indicator	Verified Svc. Data	alpha	1	
Homeless veteran indicator	Homeless Veteran Indicator	alpha	1	

HINQ end of string delimiter   NNNN   alpha   4   hard code NNNN for end of string