

Variables

Package-wide Variables

There are no package-wide variables associated with the DHCP HL7 software package.

Basic Variables

The following table provides a list of the basic variables, with their descriptions, that are used by the DHCP HL7 package for the V. 1.6 interface method. The variables are grouped into the following three categories:

- Variables created when an HL7 message is *received*
- Variables created when an HL7 message is being *sent*
- Variables created when HL7 messages are both *sent and received*

Variable Name	Description	When Created
EID	The IEN of the event driver protocol in the PROTOCOL file (#101) for the application that is sending this message.	Sent
HL	The array in which the output parameters will be returned. <i>This parameter must be passed by reference.</i>	Sent and Received
HL("ACAT")	The accept acknowledgment type from the PROTOCOL file (#101). (Optional)	Sent
HL("APAT")	The application acknowledgment condition of the sending application from the PROTOCOL file (#101). It is in the message header of the message received. This variable will be used by the receiving application to determine the type of acknowledgment, if any, that must be returned to the application that sent the message. (Optional)	Sent and Received
HL("CC")	The country code of the sending application from the HL7 APPLICATION PARAMETER file (#771). It is in the message header of the message received. (Optional)	Sent and Received
HL("DTM")	The date/time from the message header of the message received in HL7 format. (Optional)	Received

Basic Variables, cont.

Variable Name	Description	When Created
HL("DUZ")	If a valid DHCP access code is contained in the first component of the SECURITY field (#8) of the MSH segment, HLDUZ will equal the DUZ associated with this access code from the NEW PERSON file (#200) on DHCP. (Optional)	Received
HL("ECH")	The HL7 encoding characters (1 to 4 characters) to be used in extracting data from HL7 segments and fields. Each character must be unique and cannot match the HL7 field separator character. (See the variable HLFS for a definition of the field separator character.) The four encoding characters are the component separator, repetition separator, escape character, and sub-component separator, in that order. The default characters used by the DHCP HL7 package (when an application package does not define its own encoding characters) are ~ \&.	Sent and Received
HL("EID")	The IEN of the event driver protocol from the PROTOCOL file (#101) that generated the message.	Received
HL("EIDS")	The IEN of the subscriber protocol from the PROTOCOL file (#101) that is receiving the message.	Received
HL("ESIG")	This variable might not always exist. If a valid DHCP electronic signature code is contained in the third component of the SECURITY field (#8) of the MSH segment, HLESIG will equal the signature block printed name associated with this electronic signature code from the NEW PERSON file (#200) on DHCP.	Received
HL("ETN")	The 3 character event type name from the PROTOCOL file (#101) (e.g., A01 [Admit a Patient], O01 [Order Message], etc.).	Sent and Received
HL("FS")	The HL7 field separator character to be used in extracting fields of data from HL7 messages received, or building HL7 segments in messages sent. The field separator is only one character (e.g., ^).	Sent and Received
HL("MID")	The HL7 message control ID for the message received. A number that uniquely identifies the message.	Received
HL("MTN")	The three character message type name from the PROTOCOL file (#101) (e.g., ADT, QRY [Query], ORU [Observation Result Unsolicited], etc.).	Sent and Received

Basic Variables, cont.

Variable Name	Description	When Created
HL("PID")	The HL7 processing ID for the message received. (Normally, P for production, T for Training, D for Debug.)	Sent and Received
HL("Q")	Two quotation marks (""). This variable can be used to insert a null value in an HL7 field when building HL7 segments.	Sent and Received
HL("RAN")	The name of the receiving application from the HL7 APPLICATION PARAMETER file (#771) (e.g., Radiology).	Received
HL("SAF")	The name of the sending facility from the HL7 APPLICATION PARAMETER file (#771).	Sent
HL("SAN")	The name of the sending application (e.g., Radiology) from the HL7 APPLICATION PARAMETER file (#771) for the message received.	Sent and Received
HL("VER")	The version number of the HL7 protocol that was used to build the message being sent/received.	Sent and Received
HLA("HLA",I)	A local array consisting of HL7 segments that form an HL7 message where the variable I is a sequential, whole number starting with the number 1. This array is built by the DHCP application in order to send an HL7 message that is small enough to be built in the local partition space. Otherwise, the ^TMP("HLA") global array should be set.	Received
HLA("HLS",I)	A local array consisting of HL7 segments that form an HL7 message where the variable I is a sequential, whole number starting with the number 1. This array is built by the DHCP application in order to send an HL7 message that is small enough to be built in the local partition space. Otherwise, the ^TMP("HLS") global array defined below should be set.	Sent
HLARYTYP	This parameter specifies where the acknowledgment array is stored and whether it is a single message or batch acknowledgment. It must equal LM for Local/Single Message, LB for Local/Batch Message, GM for Global/Single Message or GB for Global/Batch Message.	Sent and Received
HLDT	The parameter in which the message date/time in internal VA FileMan format will be returned. <i>This parameter must be passed by reference.</i>	Sent and Received
HLDT1	The parameter in which the message date/time in HL7 format will be returned. <i>This parameter must be passed by reference.</i>	Sent and Received

Basic Variables, cont.

Variable Name	Description	When Created
HLEID	The IEN of the event driver protocol in the PROTOCOL file (#101). It is passed to the processing routine in the variable HL("EID").	Sent and Received
HLEIDS	The IEN of the subscriber protocol in the PROTOCOL file (#101). It is passed to the processing routine in the variable HL("EIDS").	Received
HLFORMAT	This parameter specifies whether the HLA array is pre-formatted in HL7 format. At this time, it should always equal 1.	Sent and Received
HLMID	The parameter in which the message ID will be returned. <i>This parameter must be passed by reference.</i>	Sent and Received
HLMTIEN	The parameter in which the IEN of the entry in the MESSAGE TEXT file (#772) created by the call to the entry point CREATE^HLTF.	Sent
HLMTIENA	The IEN of the entry in the MESSAGE TEXT file (#772) created by the call to the entry point CREATE^HLTF and returned in the MTIEN parameter.	Received
HLMTIENS	The IEN of the entry in the MESSAGE TEXT file (#772) for the subscriber application.	Received
HLNEXT	M code that is executed by the application to \$O through the nodes of the Message Text global.	Received
HLNODE	A node from the Message Text global.	Received
HLP("CONTPTR")	The value that should go in the CONTINUATION POINTER field of the Message Header segment for the message being sent.	Sent
HLP("ERRTEXT")	If an error occurred during the processing of the incoming message, an error message (1 to 80 characters) should be passed in this parameter. (Optional)	Received
HLP("PRIORITY")	The default priority is delayed. Set this parameter equal to I for Immediate if this message should be delivered in the foreground (immediate).	Sent and Received
HLP("SECURITY")	Security information (1 - 40 characters) that the DHCP application wants included in the SECURITY field (#8) of the HL7 MSH or BHS segment when sending a message. (Optional)	Sent and Received
HLQUIT	A variable that indicates when there are no more nodes to process. If HLQUIT is not greater than zero, all message text has been processed.	Received

Basic Variables, cont.

Variable Name	Description	When Created
HLRESLT	The message ID assigned to this message and/or an error message will be returned in this parameter. This parameter must be passed by reference. If the call to GENERATE^HLMA is successful, this parameter will be returned equal to the message ID assigned to the message that was created. If the call was not successful, this parameter will be returned with the following three pieces of data: message ID (or 0 if no message ID was assigned)^error code^error message.	Sent
HLRESLTA	The message ID assigned to this message and/or an error will be returned in this parameter. This parameter must be passed by reference. If the call to GENACK is successful, this parameter will be returned equal to the message ID assigned to the message that was created. If the call was not successful, this parameter will be returned with the following three pieces of data: message ID (or 0 if no message ID was assigned)^error code^error message.	Received
INT	Indicates that only array values for an internal DHCP-to-DHCP message exchange should be utilized.	Sent
MID	The parameter in which the message ID will be returned.	Sent and Received
MTIEN	The parameter in which the IEN of the entry in the MESSAGE TEXT file (#772) (created by the call to the entry point CREATE^HLTF) will be returned. <i>This parameter must be passed by reference.</i>	Sent and Received
MTIENA	The IEN of the entry in the MESSAGE TEXT file (#772) created by the call to the entry point CREATE^HLTF and returned in the MTIEN parameter.	Received
PRIORITY	The default priority is delayed. Set this parameter equal to I for Immediate if this message should be delivered in the foreground (immediately). (Optional)	Sent and Received

Basic Variables, cont.

Variable Name	Description	When Created
RESULT	The message ID assigned to this message and/or an error message will be returned in this parameter. <i>This parameter must be passed by reference.</i> If the call to MSH^HLFNC2 is successful, this parameter will be returned equal to the message ID assigned to the message that was created. If the call was not successful, this parameter will be returned with the following three pieces of data: message ID (or 0 if no message ID was assigned)^error code^error message.	Sent and Received
SECURITY	Security information (1 to 40 characters) that the DHCP application wants included in the SECURITY field (#8) of the HL7 MSH or BHS segment when sending a message. (Optional)	Sent and Received
^TMP("HLA",\$J,I)	A global array containing all segments of the HL7 message that the receiving DHCP application wishes to send as a response. The variable I is a sequential, whole number starting with the number 1.	Received
^TMP("HLS",\$J,I)	A global array containing all segments of the HL7 message that the receiving DHCP application wishes to send as a response. The variable I is a sequential, whole number starting with the number 1.	Sent

