



STANDARD HL7 ORU MESSAGE

INBOUND STOCK – SIGNED/UNSIGNED ORDERS

Version: 1.0

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INTERFACE OVERVIEW

SCOPE

This interface specification details HCHB's standard implementation of the Health Level Seven (HL7) Version 2.5 Standard for ORU (Observation Result) messages. The purpose of this document is to create an open HL7 specification for the interchange of patient information between all company entities, service providers, and customers (and/or their vendors) with functionality that provides the best solution for clinicians to receive the right data at the right time. This specification is not intended to be used as a stand-alone document. It is assumed the reader of this document has a working knowledge of the HL7 version 2.5 standards.

Chapter 2 of the HL7 Version 2.5 Messaging Standard provides details of the data types and data items that are specific to the HL7 standard referred to in this specification. Additional details on these items will not be included within this document.

The **customer and the collaborative interface partner** will need to conduct a **gap analysis** to determine if any GAPs exist between this document (the standard HCHB Inbound ORU stock interface), and the functionality needed by the customer and the collaborative interface partner.

Any GAPs that are identified will be considered **out of scope** of this standard, stock interface. Any item not explicitly described and documented in this document that is requested by the customer and / or interface partner will be considered a custom request, and will move the project from a standard stock implementation to a custom new build implement, which will require a separate process of requirements gathering, scoping, cost estimation, Statement of Work approval, timeline definition, and project management involvement.

DEFINITIONS

The following terms have these defined meanings within this document:

Term	Meaning
HCHB	Homecare Homebase – the software that houses the electronic medical records for home health and hospice agencies.
Interface Partner	The vendor, customer, or other entity that is sending or receiving messages from HCHB.
Client	This term refers to the patient.

COMMUNICATION ARCHITECTURE FOR HCHB HL7 INTEGRATION

INTERFACE DESCRIPTION

This interface provides a mechanism for HCHB Customers and their Interface Partner's to send the signed order information. The standard ORU interface supports:

- Inbound – Signed/Unsigned Order information will be imported into HCHB.

The segment definitions and data provided by the stock inbound ORU HL7 integration is fixed, and cannot be customized or modified.

PROCESS FLOW & COMMUNICATION

The standard for outbound messages will be TCP/IP, over secured VPN, and all responses will be HL7 compliant and synchronous.

MESSAGE COMPOSITION RULES

DELIMITERS

The ORU interface supports the only HL7 default separators: A delimiter must separate each field. If a field contains no data, it must be delimited. The delimiter for any given HL7 message is always defined in the MSH (header) segment of the message as the first character following the segment identifier (MSH.00). See the message segment descriptions for more detail. Standard HL7 delimiters are used.

Character	Description
<CR>	Segment Terminator
	Field Separator
^	Component Separator
&	Sub-component Separator
~	Repetition Separator
\	Escape Character

Please note that these delimiters **cannot** be present in any of the data fields of the message, as they are reserved characters. Please use alternate representations of these delimiters instead. Any message received with these delimiters as part of the data will not process.

LEGEND

The following legend is used throughout the document:

Symbol	Remarks
[]	Optional
()	Required
{ }	Repetitive

MESSAGES & EVENTS

These triggering events will result in a message of the given event type to be sent over the interface.

Event Type	Event Description	HCHB Triggering Event(s)
R01	Unsolicited Observation Message	

MESSAGE STRUCTURE

ORU inbound messages will contain the following segments. A breakdown of segments by event type follows.

Segment	Description
(MSH)	Message Header
(PID)	Patient Identification
{	
[ORC]	Common Order
(OBR)	Observation Request
{[NTE]}	Notes and Comments
{	
[OBX]	Observation/Result
{[NTE]}	Notes and Comments
}	
}	

SEGMENT DEFINITIONS

MSH – MESSAGE HEADER

Status: Mandatory

Description: The MSH segment defines the intent, source, destination, and some specifics of the message.

Seq	Field Name	Comment
0	Segment ID = "MSH"	MSH
1	Field Separator	Always " " (HL7 standard)
2	Encoding Characters	Always "^~\&" (HL7 standard)
3	Sending Application	Agreed upon between HCHB and Interface Partner
4	Sending Facility	Agreed upon between HCHB and Interface Partner
5	Receiving Application	Agreed upon between HCHB and Interface Partner
6	Receiving Facility	Agreed upon between HCHB and Interface Partner
7	Date/Time Of Message	Time of event, formatted in yyyymmddhhmm
8	Security	Not Currently Used
9	Message Type	HL7 message type – must be ORU^R01
10	Message Control ID	Numeric identifier for the message.
11	Processing ID	T/P
12	Version ID	2.5
13	Sequence Number	Not Currently Used

PID – PATIENT IDENTIFICATION

Status: Mandatory**Description:** The PID segment is used as the primary means of communicating patient demographic information.

Seq	Field Name	Comments
0	Segment ID = "PID"	PID
1	Set ID	HL7 numeric identifying field
2	Patient ID (External ID)	HCHB's Medical Record number or Source Patient Id
3	Patient ID (Internal ID)	HCHB's Patient ID
4	Alternate Patient ID – PID	HCHB's Internal Episode Number
5	Patient Name	Last Name ^ First Name Family Name (Surname) – Last Name Given Name – First Name
6	Mother's Maiden Name	Not Currently Used
7	Date/Time of Birth	Date of birth: YYYYMMDD
8	Sex	Female (F) Male (M) otherwise Unknown (U)

OBR – OBSERVATION REQUEST SEGMENT

Status: Mandatory**Description:** The Observation Request (OBR) segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam, or assessment.

Seq	Field name	Comments
0	Segment ID = "OBR"	OBR
1	Set ID	HL7 numeric identifying field
2	Placer Order Number	Not Currently Used
3	Filler Order Number	HCHB Order Number (sent in the Order message)
4	Universal Service Identifier	IdentifierST ^ Text IdentifierST – Observation Request Identifier Id Text – Observation Request Identifier ID Description
5	Priority	Not Currently Used
6	Requested Date/Time	Date/time of message: YYYYMMDDhhmmss
7	Observation Date/Time #	Date/time of message: YYYYMMDDhhmmss
20	Filler Field1	Note for Rejected Order
22	Results Rpt Status Change Date Time	Result Status Date
25	Result Status +	Source Result Status (Status for Signed and unsigned Order)

NTE – NOTES AND COMMENTS SEGMENT

Status: Optional**Description:** The NTE segment is used to for notes

Seq	Field name	Comments
0	Set ID – NTE	HL7 numeric identifier
1	Source of Comment	Not Currently Used

2	Comment	Not Currently Used
3	Comment Type	Not Currently Used