

Vianeta Communications

OUTBOUND HL7 Interface Specifications

Purpose

The purpose of this document is to outline the Vianeta's requirements for OUTBOUND data with a standard HL7 interface.

Message Type - ORU (Observational Report Unsolicited)

The ORU messages deal with the unsolicited Observation Reports. A common use of these messages will be to transmit observations and results of diagnostic studies from one producing system to other in an unsolicited mode.

Trigger Event

R01 (Unsolicited Observation Message)

Unsolicited transmission of an observation message.

The following segments are required for Inbound ORU^R01.

ORU^R01	Unsolicited Observation Message	HL7 required	HL7 Reference
MSH	Message Header	R	Chapter 2
PID	Patient Identification	R	Chapter 2
PV1	Patient Visit	R	Chapter 3
OBR	Observation Request	R	Chapter 4
OBX	Observation Result	R	Chapter 7

MSH Segment (Message Header)

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

S No.	HL7 Requirements				
	Element Name	L	DT	OPT	Comment
1.	Field Separator	1	ST	R	
2.	Encoding Characters	4	ST	R	
3.	Sending Application	180	HD	R	
4.	Sending Facility	180	HD	R	
5.	Receiving Application	180	HD	R	
6.	Receiving Facility	180	HD	R	
7.	Date/Time Of Message	26	TS	R	
9.	Message Type	13	CM	R	
10.	Message Control ID	20	ST	R	
11.	Processing ID	3	PT	R	
12.	Version ID	60	VID	R	
15.	Accept Acknowledgment Type	2	ID	O	
16.	Application Acknowledgment Type	2	ID	O	

Table 1

Legend: L- Length
DT- Data Type,
OPT-Optional/Required (O/R)

PID Segment (Patient Identification)

The PID segment is used as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that, for the most part, is not likely to change frequently.

S No.	HL7 Requirements				
	Element Name	L	DT	OPT	Comment
3.	Patient Identifier List	20	CX	R	
5.	Patient Name	48	XPN	R	
7.	Date/Time of Birth	26	TS	O	
8.	Sex	1	IS	O	
10.	Race	80	CE	O	
11.	Patient Address	106	XAD	O	
13.	Phone Number-Home	40	XTN	O	
14.	Phone Number-Business	40	XTN	O	
15.	Primary Language	60	CE	O	
16.	Marital Status	80	CE	O	
18.	Patient Account Number	20	CX	R	
19.	SSN Patient - Patient	16	ST	O	
20.	Drivers License Number-Patient	25	DLN	O	
22.	Ethnic Group	80	CE	O	

Table 2

PV1 Segment (Patient Visit)

The PV1 segment is used by Registration/Patient Administration applications to communicate information on an account or visit-specific basis.

S No.	HL7 Requirements				
	Element Name	L	DT	OPT	Comment
2.	Patient Class	1	IS	R	
7.	Attending Doctor	250	XCN	O	
8.	Referring Doctor	250	XCN	O	
19.	Visit Number	250	CX	R	

Table 3

OBR Segment (Observation Request)

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

Note: For linked transcriptions (one result for multiple accession numbers), the preferred format is to have all associated accession numbers listed in OBR2 separated by ~.

S No.	HL7 Requirements				
	Element Name	L	DT	OPT	Comment
2.	Placer Order Number	22	EI	R	Accession number
4.	Universal Service ID	250	CE	R	
7.	Observation Date/Time #	26	TS	O	
8.	Observation End Date/Time #	26	TS	O	
15.	Specimen Source	300	CM	O	
16.	Ordering Provider	250	XCN	O	Referring Physician
19.	Placer Field 2	60	ST	O	
31.	Reason for Study	250	CE	O	
32.	Principal Result Interpreter	200	CM	R	Interpreting Physician
34.	Technician +	200	CM	O	
35.	Transcriptionist +	200	CM	O	
36.	Scheduled Date/Time	26	TS	O	
44.	Procedure Code	250	CE	O	

Table 4

OBX Segment (Observation Result)

The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report. Its principal mission is to carry information about observations in report messages.

S No.	HL7 Requirements				
	Element Name	L	DT	OPT	Comment
2.	Value Type	2	ID	R	
3.	Observation Identifier	250	CE	R	
4.	Observation Sub-ID	20	ST	R	
5.	Observation Value	65536	*	R	
11.	Observation Result Status	1	ID	R	F, C
14.	Date/Time of the Observation	26	TS	O	

Table 5

The following Observation Result Status codes are supported for Inbound ORU^R01.

Code	Description
F	Final
C	Correction

References:

?? HL7 Standard 2.4