

CLICKVIEW 7i

HL7 Conformance Statement

ORU Message

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1. Introduction

This is a HL7 conformance statement for Clickview 7i Ultrasound Reporting System.

CLICKVIEW Corporation is the leading provider of innovative Structured Reporting Systems to Perinatal and Radiology professionals. Since its inception in 1988, CLICKVIEW's state of the art database systems have improved the quality of care, streamlined workflow and lowered costs for hundreds of physicians and thousands of patients.

Clickview 7i has the ability to push an HL7 ORU Message which contains a text version of a Clickview Report. This process will be explained in this document.

2. Quick Summary

Clickview 7i is a web-based structured reporting and database system for Maternal Fetal Medicine and Radiology.

Clickview has been designed to work in conjunction with many different PACS/RIS/HIS in providing reporting information. Technicians and physicians can make their observations and comments in Clickview and then submit them via HL7. This is done when an exam is signed electronically in Clickview. Clickview also supports preliminary reads and addendums.

A Windows Service created by Clickview will need to be installed and started. This service is called "CV HL7 Message Export". This service takes each message and places them in a queue to be sent in order it was received. If there is no acknowledgement of the message been sent, then the message will be placed back in the queue to be sent again.

3. Parameters & Settings

Network Protocol

- Only TCP/IP protocol is supported.

HL7 Settings

- Host Name of IP Address.
- Port Number. Default is 104.

4. HL7 ORU Message Format

Clickview HL7 ORU Messages are composed of four segments:

- MSH Message Header
- PID Patient Identification
- OBR Observation Request
- OBX Observation Results

4.1 MSH – Message Header

Seq	Description	Type	Len	Notes
1	Encoding Characters	ST	4	^~\&
2	Sending Application	ST	15	CLICKVIEW
6	Date/Time of Message	ST	14	Format: <code>yyyymmddhhmmss</code>
8	Message Type	ST	7	ORU
9	Message Control ID	ST	20	Message ID Unique to Clickview
10	Processing ID	ST	1	D (Development) / P (Production)
11	Version ID	ST	8	2.3

4.2 PID – Patient Identification

Seq	Description	Type	Len	Notes
1	Set Patient ID	I	4	1
3	Patient ID	ST	16	Unique Patient ID
5	Patient Name	ST	30	Format: <code>LAST^FIRST</code>
7	Date of Birth	ST	14	Format: <code>yyyymmdd</code>
8	Sex	ST	1	M (Male) / F (Female) / I (Indeterminate)
18	Account Number	ST	12	Unique Patient ID

4.3 OBR – Observation Request

Seq	Description	Type	Len	Notes
1	Set Observation ID	I	4	1
2	Exam ID	ST	14	Accession Number
7	Observation Date/Time	ST	14	Format: <code>yyyymmddhhmmss</code>
22	Dictated Date/Time	ST	14	Format: <code>yyyymmddhhmmss</code>
25	Result Status	ST	1	P (Preliminary) / S (Signed) / A (Addendum)
32	Dictating User Mnemonic	ST	200	Physician Lookup Code
35	Transcriptionist	ST	200	Default: CLICKVIEW

4.4 OBX – Observation Result

Seq	Description	Type	Len	Notes
1	Set Observation ID	I	4	Sequential Line Number starting with 1
2	Value Type	ST	2	PR (Preliminary Text) / TX (Report Text) / FT (Addendum Text)
3	Report Type	ST	3	PRE (Preliminary Text) / GDT (Report Text) / ADT (Addendum Text)
5	Result Line	ST	65k	Clickview Text Report. Entire report can be sent with tildes (~) representing line breaks or individual lines can be sent with each line number uniquely and sequentially set in Seq OBX 1
11	Result Status	ST	2	P (Preliminary) / S (Signed) / A (Addendum)