IHA Physician Office Integration :

HL7 RAD Specification

Version 2.1

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# Introduction

## Purpose

The objective of this document is to detail the HL7 message formats used to integrate the HIS (Meditech) RAD application to other receiving vendor systems. This document will detail the following:

* Supported message delivery protocols
* Supported HL7 message and trigger types
* Supported HL7 segments
* Supported fields, components and subcomponents

# Data Communications

The following communication protocols are supported by the system:

* Minimal Lower Layer Protocol (MLLP).
* HTTPS

## Minimal Lower Layer Protocol

Communication between systems will utilize TCP/IP sockets. All TCP/IP transmissions are sent compliant with the HL7 standard using the Minimal Lower Layer Protocol. The Minimal Lower Layer Protocol is described in section B.4 of the HL7 version 2.1 specification on the HL7 ([www.hl7.org](http://www.hl7.org)) website.

The receiving application listens on a predefined IP address and port, waiting for a connection from the sending application. The sending application attempts to initiate a connection at the IP address and port of the receiving application.

Once a connection is established, the HL7 message may be transmitted. By definition, the sending system sends the initiate message and the receiving system sends back a response message. Each of these messages is formatted into a single LLP (Lower Layer Protocol) data block. In the usual case, where there are no errors, the sending system will send a message and receive the response. The receiving system will receive the sending system’s message and send the response.

Each message is prefixed by a start block character (hex 0x0B). Each segment in the message is delimited by a carriage return character (hex 0x0D). Each message is ended with an end block character (hex 0xC).

Example: <0x0B> MSH|^~\&|…. <0x0D> PV1||A…… ZSR||…. <0x0d> <0x1c> <0x0d>

Transmission operates in full duplex mode where the sender and receiver application use the same connection for sending data to one another.

Connections are kept until the sending application closes the connection.

Once the sending application completes sending the HL7 message, it will wait for an ACK response. The ACK designates whether or not the message was received and processed successfully.

Once the receiving application receives the HL7 message it must respond with an ACK. An ACK tells the sending application that either the message was received and processed successfully or an error occurred. If a completely delimited ACK is not received by the sending system before the receive timeout, the sending system will resend the original block.

The application receiving incoming data (receiving application receiving the message or sending system receiving the ACK) will ignore all incoming characters until a start block character is received. Any time a subsequent start block character is received before the end block character all previous characters will be ignored. The application will continue to receive characters until the end block and character return characters are received.

## Data Packet Structure

HL7 messages will be based on the HL7 release 2.3, with minor modifications described in the remainder of this document.

## Connectivity details

After transmission of a message, the sending interface will wait for a response from the receiving system. The format of this response message must conform to the HL7 application level ACK message.

## https

The HTTPS adapter will retrieve messages from a database and provide access via an

Encapsulated HTML file.

## Authentication

Authentication tokens will be embedded within the URL as the following parameters:

(usr – the User ID uniquely identifying the clinic) (pwd – the password for the clinic.)

Both the User ID and Password will be provided by Interior Health prior to go-live for a clinic.

An example Live and Test URL’s are:

Live:

[https://emr.ehealth.interiorhealth.ca/poi/interface.aspx?usr=<user id>&pwd=<password>](https://emr.ehealth.interiorhealth.ca/poi/interface.aspx?usr=%3cuser%20id%3e&pwd=%3cpassword%3e)

Test:

[https://emr.ehealth.interiorhealth.ca/poitest/interface.aspx?usr=<user id>&pwd=<password>](https://emr.ehealth.interiorhealth.ca/poitest/interface.aspx?usr=%3cuser%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20id%3e&pwd=%3cpassword%3e)

## Commands Supported

### GetAllMessages

Returns an XML response via the HTTP message body that encapsulates the HL7 messages.

Example query:

https://emr.ehealth.interiorhealth.ca/poi/interface.aspx?usr=*<user id>*&pwd=*<password>*&cmd=GETMESSAGE

Response format when successful:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"   <messages>  <message msgId="*<unique message id>*" format="HL7" version="2.3">  <![CDATA[*<hl7 encoded message>*]]>  </message>  </messages> </result> |

Response format on failure error:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"   <error messageId=”” errorId="*<error id>*">Error message…</error>  </result> |

See section 2.7 (Possible Error ID’s) for possible Error ID’s.

Example response:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"  <messages>  <message msgId="4b963bc7-f441-11db-b180-daf87ce7d1da.hl7"  format="HL7"  version="2.3">  <![CDATA[  MSH|^~\&|IHARAD^2.1|KGH|RAD||201005171012||ORU^O01|953374324-S-920|D|2.3|||||||||  PID|1||0000001140||POI^TEST^IN|||M|||1461 GRAHAM STREET^^KELOWNA^BC^V1Y 3A9||250-555-8897|||S||AC000125/10||||||||||||| </message>  </messages> </result> |

### AcknowledgeMessage

Informs the server that the message has been digested by the invoking (client) application and should be archived, removing the message from the list of available messages.

Example query:

https://emr.ehealth.interiorhealth.ca/poi/interface.aspx?usr=*<user id>*&pwd=*<password>*&cmd=ACKNOWLEDGE&msgid=*<message id>*

Response format when successful:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"  <success msgId="*<unique message id>*">Success message…</success>  </result> |

Response format on failure error:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"  <error messageId=”*<unique message id>*” errorId="*<error id>*">  Error message…  </error>  </result> |

See section 2.7 (Possible Error ID’s) for possible Error ID’s.

Example response:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <result xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"  xmlns:xsd="<http://www.w3.org/2001/XMLSchema>"  <success msgId="4b963bc7-f441-11db-b180-daf87ce7d1da.hl7">Acknowledge successful.</success>  </result> |

## Possible Error ID’s

The following error codes (or Error ID’s) may be returned:

100 Missing parameter(s).

101 Invalid command (currently only support ‘GETMESSAGE’ and ‘ACKNOWLEDGE’).

102 Missing command parameter(s) (command ‘ACKNOWLEDGE’ requires a ‘MSGID’ parameter).

103 Web exception (if messageID is NOT blank it contains the web server generated code).

104 Null result returned from POI web service.

200 POI web service internal error.

201 POI web service ‘ACKNOWLEDGE’ command contains an invalid message ID.

# HL7 defined

## Message and trigger types

RAD reports are transmitted from the HIS (Meditech) to external vendor systems via the ORU message with a R01 trigger event. This specification is based on Health Level Seven version 2.3.

### HL7 Validation

It is preferable that EMR software fully parses and imports the HL7 message before returning an Acknowledgment. At minimum, the vendor software must validate and check to ensure that the received message is;

* Formatted properly and parsable
* The schema is valid
* Data is present in expected key fields
* Basic field types should be checked
* Data format should be checked if possible. (i.e. dates, numerical values, etc.)

As part of the conformance testing vendors are expected to include screen prints of each message type.

IHA will make every attempt to give EMR venders 90 days notice for any significant change to the POI system

## Segment definitions

This section details all supported segments. Segments are either required or optional. Required segments are sent with each result message while optional segments are sent for results with relevant data.

### Supported segments

|  |  |  |  |
| --- | --- | --- | --- |
| **Segment** | **Required/Optional** | **Repeats** | **Description** |
| MSH | R |  | Message header |
| PID | R |  | Patient identification |
| PV1 | R |  | Patient visit |
| ORC | O |  | Common order segment |
| OBR | R |  | Observation request |
| OBX | O | Y | Observation result |
| ZDR | O |  | Custom Identifier for target physicians |

### Message construct

Each RAD message will have the following format. The [] symbol represents an optional segment while the {} symbol represents segment repetition where a segment may appear once or more than once. These symbols may be combined to indicate an optional segment that may repeat.

MSH PID PV1 [ORC] OBR [{OBX}] [ZDR]

## Physician delivery fields identified

For identifying the physicians within the message please use:

1) OBR.16 - Ordering Provider

2) PV1.7 – Attending Provider

3) PV1.17 – Admitting Provider - *Currently the referring provider is added to OBR.28 in addition*

4) PV1.8 – Referring Provider - *Currently the referring provider is added to OBR.28 in addition*

5) PV1.9 - Consulting Provider

6) OBR.28 – Copy to Provider

For added clarity the ZDR segment can be used to identify the physician role, this ZDR field will continue to expand and include all segment physicians in later change releases.

|  |  |
| --- | --- |
| ZDR.1 ADP | (PV1.17) |
| ZDR.2 ATP | (OBR.16) (PV1.7) |
| ZDR.3 OTP | (OBR.28) (PV1.8) |
| ZDR.4 FAP | (OBR.28) |
| ZDR.5 ERP | (OBR.16) – Created ONLY when PV1.2 has status “E” |
| ZDR.6 PCP | (OBR.28) |

## MSH Segment (message header)

The MSH segment is a required segment for all HL7 messages. It is always the first segment and describes the type of message and how to parse the segments to follow.

### Example

MSH|^~\&|IHARAD^2.1|KGH|RAD||201005171012||ORU^O01|953374324-S-920|D|2.3|||||||||

### Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “MSH” |
| 1 | 3 | ST | R | Y |  | Field Separator |
| 2 | 4 | ST | R | Y |  | Encoding Characters |
| 3 | 30 | HD | R | Y |  | Sending Application |
| 4 | 30 | HD | R | Y |  | Sending Facility |
| 5 | 30 | HD | O | Y |  | Receiving Application |
| 6 | 30 | HD | O |  |  | Receiving Facility |
| 7 | 12 | TS | O | Y |  | Date/Time Of Message |
| 8 | 40 | ST | O |  |  | Security |
| 9 | 3 | CM | R | Y |  | Message Type |
| 10 | 20 | ST | R | Y |  | Message Control ID |
| 11 | 3 | PT | R | Y |  | Processing ID |
| 12 | 8 | ID | R | Y |  | Version ID |
| 13 | 15 | NM | O |  |  | Sequence Number |
| 14 | 30 | ST | O |  |  | Continuation Pointer |
| 15 | 2 | ID | O |  |  | Accept Acknowledgment Type |
| 16 | 2 | ID | O |  |  | Application Acknowledgment Type |
| 17 | 2 | ID | O |  |  | Country Code |
| 18 | 6 | ID | O |  | Y | Character Set |
| 19 | 30 | CE | O |  |  | Principal Language of Message |

##### 1. Field separator

This field contains the separator character used to delimit further fields in the message.

*Example: |*

##### 2. Encoding Characters

Specifies the characters to be used as encoding characters. 4 characters must be specified in this field: Component separator, Repetition separator, Escape character, and Sub component separator.

*Example: ^~\&*

##### 3. Sending Application

Contains a unique identifier of the sending application and the version number of the POI specification.

1. Component 1 – First 3 characters are the authority ID (IHA = Interior Health Authority), last 2 characters are the sending application (RAD = Radiology report)
2. Component 2 – POI specification version number.

*Example: IHARAD^2.1*

##### 4. Sending Facility

Contains a unique identifier of the sending facility.

*Example: KGH*

##### 5. Receiving Application

This field uniquely identifies the receiving application among all other applications within the network enterprise.

RAD – 5.6 messages say RAD, 6.1 messages say ITS.

*Example: RAD*

##### 7. Date/Time of Message

Creation timestamp of message

Format: YYYYMMDDHHmm

YYYY – 4 digit year, MM – 2 digit month, HH – 2 digit hour, mm – 2 digit minute.

*Example: 20080202140217*

##### 9. Message Type

Type of message and event trigger

Format: MessageType^Event.

*Example: ORU^001*

##### 10. Message Control ID

A number or other identifier that uniquely identifies the message.

*Example: 953374324-S-920*

##### 11. Processing ID

This field is used to indicate whether the message was generated by a production/live system or a development/testing/training system. P = Production, D = Development/Test

*Example: D*

##### 12. Version ID

HL7 Version. This value will always be 2.3

Format: Major.Minor{.Revision}.

*Example: 2.3*

## PID Segment (patient identification)

The PID segment is used to pass patient information to the receiving application.

### Example

PID|1||0000001140||POI^TEST^IN 2|||M|||1461 GRAHAM STREET^^KELOWNA^BC^V1Y 3A9||250-555-8897|||S||AC000125/10|||||||||||||

### Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “PID” |
| 1 | 4 | SI | O |  |  | Set ID |
| 2 | 10 | CX | O |  |  | Patient ID (external) |
| 3 | 10 | CX | R | Y | Y | Patient ID (internal) |
| 4 | 10 | CX | O | Y | Y | Alternate Patient ID |
| 5 | 30 | XPN | R | Y |  | Patient Name |
| 6 | 30 | XPN | O |  |  | Mother’s Maiden Name |
| 7 | 12 | TS | O | Y |  | Date/Time of Birth |
| 8 | 1 | IS | O | Y |  | Sex |
| 9 | 30 | XPN | O |  | Y | Alias |
| 10 | 10 | IS | O |  |  | Race |
| 11 | 92 | XAD | O |  | Y | Patient Address |
| 12 | 4 | IS | O |  |  | County Code |
| 13 | 18 | TN | O |  | Y | Home Phone Number |
| 14 | 18 | TN | O |  | Y | Business Phone Number |
| 15 | 10 | CE | O |  |  | Primary Language |
| 16 | 10 | IS | O |  |  | Marital Status |
| 17 | 10 | IS | O |  |  | Religion |
| 18 | 12 | CX | O | Y |  | Account Number |
| 19 | 12 | ST | O |  |  | SSN |
| 20 | 12 | DLN | O |  |  | Driver’s License Number |
| 21 | 30 | CX | O |  | Y | Mother’s Identifier |
| 22 | 10 | IS | O |  |  | Ethnic Group |
| 23 | 30 | ST | O |  |  | Birth Place |
| 24 | 2 | ID | O |  |  | Multiple Birth Indicator |
| 25 | 2 | NM | O |  |  | Birth Order |
| 26 | 4 | IS | O |  | Y | Citizenship |
| 27 | 30 | CE | O |  |  | Veteran Military Status |
| 28 | 30 | CE | O |  |  | Nationality |
| 29 | 12 | TS | O |  |  | Patient Death Date/Time |
| 30 | 1 | ID | O |  |  | Patient Death Indicator |

##### 1. Set ID

The Set ID field is used to sequentially number PID segments when more than one is sent in a single HL7 message.

*Example: 1*

##### 2. Patient ID (Internal)

The unique patient identifier (URN)

##### 3. Patient ID (External)

The unique patient identifier (Unit #). If the patient is registered as an Outpatient “O” no Unit # will be generated, therefore the patient account # will populate this field instead.

##### 4. Alternate Patient ID

The Primary Health Care Number of the patient.

*Example:*

##### 18. Account Number

This field contains the patient account number.

*Example:* AC000125/10

## PV1 Segment (patient visit)

The PV1 segment is used to pass visit specific information to the receiving application

### Example

PV1|1|O|TRAKBH3^KBH301OF^48||||BAKA^Bak^Adrian^W^^Dr||BANA2^Bannerman^Alistair^^^Dr|SUR|||||||WILM26^Wilkie^Matt|ACIN||SELF|||||||||||||||||||IHKBH||ADM|||201010261340||||||||DIEC^Diehl^Chris|

Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “PV1” |
| 1 | 4 | SI | O | Y |  | Set ID |
| 2 | 2 | ID | R | Y |  | Patient Class |
| 3 | 23 | PL | O | Y |  | Assigned Patient Location |
| 4 | 2 | ID | O | Y |  | Admission Type |
| 5 | 20 | CX | O |  |  | Pre admit Number |
| 6 | 30 | PL | O |  |  | Prior Patient Location |
| 7 | 40 | XCN | O | Y | Y | Attending Doctor |
| 8 | 40 | XCN | O | Y | Y | Referring Doctor |
| 9 | 40 | XCN | O | Y | Y | Consulting Doctor |
| 10 | 10 | ID | O | Y |  | Hospital Service |
| 11 | 30 | PL | O |  |  | Temporary Location |
| 12 | 2 | ID | O |  |  | Pre admit Test Indicator |
| 13 | 2 | ID | O |  |  | Readmission Indicator |
| 14 | 10 | ID | O | Y |  | Admit Source |
| 15 | 2 | IS | O |  |  | Ambulatory Status |
| 16 | 1 | ID | O | Y |  | VIP indicator |
| 17 | 40 | XCN | O | Y |  | Admitting Doctor |
| 18 | 2 | ID | O | Y |  | Patient Type |
| 19 | 20 | CX | O |  |  | Visit Number |
| 20 | 10 | FC | O | Y | Y | Financial Class |
| 21 | 2 | ID | O |  |  | Charge Price Indicator |
| 22 | 2 | ID | O |  |  | Courtesy Code |
| 23 | 2 | ID | O |  |  | Credit Rating |
| 24 | 2 | ID | O |  | Y | Contract Code |
| 25 | 8 | DT | O |  | Y | Contract Effective Date |
| 26 | 12 | NM | O |  | Y | Contract Amount |
| 27 | 3 | NM | O |  | Y | Contract Period |
| 28 | 2 | ID | O |  |  | Interest Code |
| 29 | 1 | ID | O |  |  | Transfer to Bad Debt Code |
| 30 | 8 | DT | O |  |  | Transfer to Bad Debt Date |
| 31 | 10 | ID | O |  |  | Bad Debt Agency Code |
| 32 | 12 | NM | O |  |  | Bad Debt Transfer Amount |
| 33 | 12 | NM | O |  |  | Bad Debt Recovery Amount |
| 34 | 1 | ID | O |  |  | Delete Account Indicator |
| 35 | 8 | DT | O |  |  | Delete Account Date |
| 36 | 3 | ID | O | Y |  | Discharge Disposition |
| 37 | 23 | CM | O |  |  | Discharged to Location |
| 38 | 2 | ID | O |  |  | Diet Type |
| 39 | 10 | ID | O | Y |  | Servicing Facility |
| 40 | 1 | IS | O |  |  | Bed Status |
| 41 | 8 | ID | O | Y |  | Account Status |
| 42 | 30 | PL | O |  |  | Pending Location |
| 43 | 30 | PL | O |  |  | Prior Temporary Location |
| 44 | 12 | TS | O | Y |  | Admit Date/Time |
| 45 | 12 | TS | O | Y |  | Discharge Date/Time |
| 46 | 12 | NM | O |  |  | Current Patient Balance |
| 47 | 12 | NM | O |  |  | Total Charges |
| 48 | 12 | NM | O |  |  | Total Adjustments |
| 49 | 12 | NM | O |  |  | Total Payments |
| 50 | 20 | CX | O |  |  | Alternate Visit ID |
| 51 | 1 | IS | O |  |  | Visit Indicator |
| 52 | 30 | XCN | O | Y |  | Other Healthcare Provider/Dictating Provider |

##### 1. Set ID

The Set ID field is used to sequentially number PV1 segments when more than one is sent in a single HL7 message.

*Example: 1*

##### 2. Patient Class

This field determines the in/out patient admission class. “P” = pre-registered, “I” = inpatient, “E” = ER, “O” = Outpatient.

*Example: O*

##### 3. Assigned Patient Location

This field defines the patient location (Location, Room, Bed, Facility - loc^room^bed^fac)

*Example:* TRAKBH3^KBH301OF^48

##### 4. Admission Type

This field defines the patient admit priority

*Example: U*

##### 18. Patient Type

Indicates if patient is registered, in or outpatient.

Outpatient Clinical = CLI

Outpatient Emergency = ER

Outpatient Referred = REF

Outpatient Recurring = RCR

Outpatient Surgical Day Care = SDC

Inpatients = IN

Additionally the MT 6.x environment can send the following

  -  Inpatient

BNP -  BAR Nonpatient   
OUT -  Outpatient   
RCR -  Recurring   
ED  -  Emergency Department   
NB  -  Newborn   
OBS -  Observation   
SDS -  Same Day Surgery   
CLI  - Clinical   
ED   - Emergency Department   
ER   - Emergency   
IHED - Emergency Department   
ACIN – Acute Inpatient

IN - Inpatient  
INO  - Observation   
MHIN - MHA Tertiary   
MHRC - MHA Community   
NB   - Newborn   
PCRC - PHC/CDM Recurring   
PIRC - PHC Intrahealth Recurring   
PNRC - IHN Recurring   
POV  - Provider Office Visit   
PVRC - Public Health Recurring   
RCIN - Residential Inpatient   
RCR  - Recurring   
RCRO - Residential Care Outpatient   
REF  - Referred   
REIN - Residential Inpatient   
SDC  - Surgical Day Care

##### 52. Other Healthcare Provider

This field defines the dictating provider on the report. This optional field is only populated within the Meditech 6.1 environment.

*Example: DIEC^Diehl^Chris*

## ORC Segment (Common Order Segment)

### Example

ORC|RE|12419.001|000000920||S|||||||BAKA^Bak^Adrian^W^^Dr||||||||

### Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “ORC” |
| 1 | 2 | ID | R | Y |  | Order Control |
| 2 | 22 | EI | O | Y |  | Placer Order Number |
| 3 | 22 | EI | O | Y |  | Filler Order Number |
| 4 | 22 | EI | O |  |  | Placer Group Number |
| 5 | 2 | ID | O |  |  | Order Status |
| 6 | 1 | ID | O |  |  | Response Flag |
| 7 | 200 | TQ | O |  |  | Quantity Timing |
| 8 | 200 | CM | O |  |  | Parent |
| 9 | 26 | TS | O |  |  | Date Time Of Transaction |
| 10 | 120 | XCN | O |  |  | Entered By |
| 11 | 120 | XCN | O |  |  | Verified By |
| 12 | 120 | XCN | O | Y |  | Ordering Provider |
| 13 | 80 | PL | O |  |  | Enterers Location |
| 14 | 40 | TN | O |  | Y/2 | Call Back Phone Number |
| 15 | 26 | TS | O |  |  | Order Effective Date Time |
| 16 | 200 | CE | O |  |  | Order Control Code Reason |
| 17 | 60 | CE | O |  |  | Entering Organization |
| 18 | 60 | CE | O |  |  | Entering Device |
| 19 | 120 | XCN | O |  |  | Action By |

##### 1. Order Control

Determines the function of the order segment.

Allowable values: CA, NW, SC, RE

|  |  |
| --- | --- |
| **Code** | **Description** |
| CA | Cancel order request |
| NW | New Order |
| SC | Status changed |
| RE | Results |
| XO | Edit |

##### 2. Placer Order Number

This field is a string of characters that designates an order uniquely. This field will typically not exceed 25 characters in length.

*Example:* *12419.001*

##### 3. Filler Order Number

This field is the order number associated with the filling application.

*Example:* *000000920*

##### 5. Order Status

Allowable values: S

|  |  |
| --- | --- |
| **Code** | **Description** |
| S | Signed |

## OBR Segment (observation request)

The OBR segment is used to pass order specific information to the receiving application.

### Example

OBR|1|12419.001|000000920|ABD^ABD/C-|||201005171010|||||||||BAKA^Bak^Adrian^W^^Dr|||CT||||||S||201005171010|ABBEYMA^Abbey^Mark^Douglas^^Dr~BAKA^Bak^Adrian^W^^Dr~DIEHLCH^Diehl^Chris^R^^Dr~GABLEER^Gable^Eric^G^^Dr~|||REASON FOR EXAM? AB PAIN|ABDM^AbdelKader^Mahmoud^A^^Dr||||||||||||

### Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “OBR” |
| 1 | 4 | SI | R | Y |  | Set ID |
| 2 | 75 | EI | R | Y |  | Placer Order Number |
| 3 | 75 | EI | R | Y |  | Filler Order Number |
| 4 | 200 | CE | R | Y |  | Universal Service ID (Report Identifier) |
| 5 | 2 | ID | O |  |  | Priority |
| 6 | 26 | TS | O | Y |  | Requested Date/time |
| 7 | 26 | TS | O | Y |  | Observation Date/Time # |
| 8 | 26 | TS | O |  |  | Observation End Date/Time # |
| 9 | 20 | CQ | O |  |  | Collection Volume |
| 10 | 60 | XCN | O |  | Y | Collector Identifier |
| 11 | 1 | ID | O |  |  | Specimen Action Code |
| 12 | 60 | CE | O |  |  | Danger Code |
| 13 | 300 | ST | O |  |  | Relevant Clinical Info. |
| 14 | 26 | TS | O |  |  | Specimen Received Date/Time |
| 15 | 300 | CM | O |  |  | Specimen Source |
| 16 | 80 | XCN | O | Y |  | Ordering Provider |
| 17 | 40 | XTN | O |  | Y (max 2) | Order Call back Phone Number |
| 18 | 60 | ST | O | Y |  | Placer field 1 |
| 19 | 60 | ST | R | Y |  | Placer field 2 (RAD Exam Types) |
| 20 | 60 | ST | O | Y |  | Filler Field 1 |
| 21 | 60 | ST | O | Y |  | Filler Field 2 |
| 22 | 26 | TS | O | Y |  | Results Date/Time |
| 23 | 40 | CM | O | Y |  | Charge to Practice |
| 24 | 10 | ID | O | Y |  | Diagnostic Serv Sect ID |
| 25 | 1 | ID | O | Y |  | Result Status |
| 26 | 400 | CM | O |  |  | Parent Result |
| 27 | 200 | TQ | O | Y | Y | Quantity/Timing |
| 28 | 1000 | XCN | O | Y |  | Result Copies To |
| 29 | 150 | CM | O |  |  | Parent Number |
| 30 | 20 | ID | O |  |  | Transportation Mode |
| 31 | 300 | CE | R | Y |  | Reason for Study/Submitted History |
| 32 | 200 | CM | O | Y |  | Principal Result Interpreter |
| 33 | 200 | CM | O |  | Y | Assistant Result Interpreter |
| 34 | 200 | CM | O |  | Y | Technician |
| 35 | 200 | CM | O |  | Y | Transcriptionist |
| 36 | 26 | TS | O |  |  | Scheduled Date/Time |
| 37 | 4 | NM | O |  |  | Number of Sample Containers |
| 38 | 60 | CE | O |  | Y | Transport Logistics of Collected Sample |
| 39 | 200 | CE | O |  | Y | Collector's Comment |
| 40 | 60 | CE | O |  |  | Transport Arrangement Responsibility |
| 41 | 30 | ID | O |  |  | Transport Arranged |
| 42 | 1 | ID | O |  |  | Escort Required |
| 43 | 200 | CE | O |  | Y | Planned Patient Transport Comment |

##### 1. Set ID

The Set ID field is used to sequentially number OBR segments when more than one

is sent in a single HL7 message.

*Example: 1*

##### 2. Placer Order Number

This field is a string of characters that designates an order uniquely.

In this field, the HIS will return the same value that was originally received in the corresponding field of the related ORM message.

*Example: 12419.001*

##### 3. Filler Order Number

Unique report identifier as defined in the MEDITECH system. This field will

be unique for every report contained within the MEDITECH system.

*Example: 000000920*

##### 4. Universal Service ID

Exam Type

OBR.1 – Report Category

OBR.2 – Report Mnemonic

OBR.3 – Report Long Name

*Example: US^ABD^ABD/C-*

##### 7. Observation Date/Time

This field is the clinically relevant date/time of the observation. The element will contain the date/time in the format YYYYMMDDHHMM.

In a discharge summary this field will contain the discharge date

*Example: 201005171010*

##### 19. Placer Field 2

This field will include the RAD exam category

Example possible outputs

|  |  |  |  |
| --- | --- | --- | --- |
| ANGIO | ECHOC | RAD | NMCS |
| BD | ECHOS | US | NMS |
| COLP | FCC | VASLAB | PCI |
| CT | FRC | ANGIO | RAD |
| ECHO | MAM | ANGIOC | RADC |
| MAM | MAMC | BD | RADCS |
| MORGUE | MORGUE | CATH | RADR |
| MRI | MRI | CT | US |
| MRIW | MRIC | CTC | USC |
| NM | MRICS | CTCS | USCS |
| NMC | NM | CTS | USS |

##### 20. Filler Field 1

Mnemonic of the department with which the report is associated, as defined in

the MEDITECH ITS Department dictionary.

##### 21. Filler Field 2

The mnemonic of the type of report being sent, as defined in the MEDITECH ITS

Report dictionary.

##### 22. Results Date/Time Status Change

The date and time of the results if the status has changed

##### 24. Diagnostic Serv Sect ID

This field is the section of the diagnostic service where the observation was performed. If the study was performed by an outside service, the identification of that service should be recorded here.

The POI interface supports results from only a subset of available Diagnostic Services. The specific Diagnostic Service is identified by the OBR-24 field (Diagnostic Services Sect ID). These services (and their corresponding HL7 values) that are currently supported are: There may or not be a value contained in this field

|  |  |  |
| --- | --- | --- |
| **Code** | **Type** | **Description** |
| RAD | Report | Radiology |

Where an EMR does not support a Diagnostic Service, the EMR is still required to handle the result gracefully, and the result should be either acknowledged (via HTTPS interface) or deleted, so that the result is marked as processed and removed from the message queue.

##### 25. Result Status

This field is the status of results for this order. This conditional field is required whenever the OBR is contained in a report message. IHA currently only sends “S” Signed Status.

*Example:* S

##### 27. Quantity Timing

This field determines the priority, quantity, frequency, and timing of an atomic service. Order segments should be thought of as describing an atomic service.

*Example:* 201005171010

##### 28. Reason For Exam

This field contains the reason for exam from the DI/RAD requisition – Indicates some history

##### 32. Principal Result Interpreter

This field identifies the physician or other clinician who interpreted the observation and is responsible for the report content.

*Example:* ABDM^AbdelKader^Mahmoud^A^^Dr

## OBX Segment (observation/result)

The OBX segment is used to pass result text information to the receiving application. Each OBX segment represents one line of result text.

### Example

OBX|1|ST|1:RPT^Radiology Report||||||||F|

### Fields defined

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** |
| 0 | 3 | ST | R | Y |  | Segment ID “OBX” |
| 1 | 10 | SI | O | Y |  | Set ID |
| 2 | 2 | ID | O | Y |  | Value Type |
| 3 | 590 | CE | O | Y |  | Observation Identifier |
| 4 | 20 | ST | O |  |  | Observation Sub-ID |
| 5 | 65536 | ST | O | Y | Y | Observation Results |
| 6 | 260 | CE | O |  |  | Units |
| 7 | 10 | ST | O |  |  | References Range |
| 8 | 5 | ID | O |  | Y (max 5) | Abnormal Flags |
| 9 | 5 | NM | O |  |  | Probability |
| 10 | 2 | ID | O |  | Y | Nature of Abnormal Test |
| 11 | 1 | ID | O |  |  | Observation Result Status |
| 12 | 26 | TS | O |  |  | Date Last Obs Normal Values |
| 13 | 20 | ST | O |  |  | User Defined Access Checks |
| 14 | 26 | TS | O |  |  | Date/Time of the Observation |
| 15 | 60 | CE | O |  |  | Producer's ID |
| 16 | 80 | XCN | O |  |  | Responsible Observer |
| 17 | 60 | CE | O |  | Y | Observation Method |

##### 1. Set ID

The Set ID field is used to sequentially number OBX segments when more than one is sent in a single HL7 message.

*Example: 1*

##### 2. Value Type

This field contains the format of the observation value in OBX. It must be valued of OBX.11 is not valued with an “X”. If the value is CE then the result must be a coded entry. When the value type is TX or FT then the results are bulk text.

*Example: ST*

##### 3. Observation Identifier

This field contains a unique identifier for the observation. The format is that of the coded element (CE).

*Example: 1:RPT^Radiology Report*

##### 5. Observation Value/Results

This field contains the value observed by the observation producer. OBX.2 contains the data type for this field according to which observation value is formatted.

## ZDR Segment (Custom)

Custom segment used to identify provider based on patient encounter.

### Example

ZDR|GABLEER^Gable^Eric^G^^Dr^^^^^^^^^ADP|BAKA^Bak^Adrian^W^^Dr^^^^^^^^^ATP|~~~|DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^FAP|DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^ERP|ABBEYMA^Abbey^Mark^Douglas^^Dr^^^^^^^^^PCP|

And

ZDR|GABLEER^Gable^Eric^G^^Dr^^^^^^^^^ADP|BAKA^Bak^Adrian^W^^Dr^^^^^^^^^ATP|TEST1^Osler^Test^^^Dr^^^^^^^^^OTP~TEST2^Wolf^Test^^^Dr^^^^^^^^^OTP~TEST3^Aihs^Test^^^Dr^^^^^^^^^OTP~TEST4^MedA^Test^^^Dr^^^^^^^^^OTP~TEST5^Mois^Test^^^Dr^^^^^^^^^OTP~TEST6^Opti^Test^^^Dr^^^^^^^^^OTP~TEST7^Pss^Test^^^Dr^^^^^^^^^OTP~TEST8^Emis^Test^^^Dr^^^^^^^^^OTP~TEST9^Rhs^Test^^^Dr^^^^^^^^^OTP~TEST10^Intra^Test^^^Dr^^^^^^^^^OTP~TEST11^Oscar^Test^^^Dr^^^^^^^^^OTP~TEST12^Night^Test^^^Dr^^^^^^^^^OTP~TEST13^Janoke^Test^^^Dr^^^^^^^^^OTP~TEST14^Plexia^Test^^^Dr^^^^^^^^^OTP~TEST15^McKee^Test^^^Dr^^^^^^^^^OTP~TEST16^Amazing^Test^^^^^^^^^^^^OTP~TEST17^BC^Cancer^Agency^^Dr^^^^^^^^^OTP|DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^FAP|DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^ERP|ABBEYMA^Abbey^Mark^Douglas^^Dr^^^^^^^^^PCP|

|  |  |
| --- | --- |
| ZDR.1 ADP | (PV1.17) |
| ZDR.2 ATP | (OBR.16) (PV1.7) |
| ZDR.3 OTP | (OBR.28) (PV1.8) |
| ZDR.4 FAP | (OBR.28) |
| ZDR.5 ERP | (OBR.16) – Created ONLY when PV1.2 has status “E” |
| ZDR.6 PCP | (OBR.28) |

\*\* **The referring Provider PV1.8 is also placed in OBR.28 \*\***

### Fields defined

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Used** | **Repeats** | **Name** | **Hard Coded** |
| 0 | 3 | ST | O | Y |  | Custom Segment ID“ZDR” | ZDR |
| 1 | 30 | XCN | O | Y | Y | Admitting Provider | ADP |
| 2 | 30 | XCN | O | Y | Y | Attending Provider | ATP |
| 3 | 1000 | XCN | O | Y | Y | Other Provider | OTP |
| 4 | 30 | XCN | O | Y | Y | Family Provider | FAP |
| 5 | 30 | XCN | O | Y | Y | ER Provider | ERP |
| 6 | 30 | XCN | O | Y | Y | Primary Care Provider | PCP |

### Field Component Breakdown

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Length** | **Type** | **Req.** | **Repeats** | **Name** | **Hard Coded** |
| 1.1 |  | ST | Y | N | Provider Mnemonic |  |
| 1.2 |  | ST | Y | N | Last Name |  |
| 1.3 |  | ST | Y | N | First Name |  |
| 1.4 |  | ST | O | N | Middle Name |  |
| 1.5 |  | ST | O | N | Suffix |  |
| 1.6 |  | ST | O | N | Title (Dr.) |  |
| 1.7 |  | ST | O | N | Degree |  |
| 1 .15 | 3 | ST | Y | N | Provider Category Code | ADP |
|  |  |  |  |  |  |  |
| 2.1 |  | ST | Y | N | Provider Mnemonic |  |
| 2.2 |  | ST | Y | N | Last Name |  |
| 2.3 |  | ST | Y | N | First Name |  |
| 2.4 |  | ST | O | N | Middle Name |  |
| 2.5 |  | ST | O | N | Suffix |  |
| 2.6 |  | ST | O | N | Title (Dr.) |  |
| 2.7 |  | ST | O | N | Degree |  |
| 2 .15 | 3 | ST | Y | N | Provider Category Code | ATP |
|  |  |  |  |  |  |  |
| 3.1 |  | ST | Y | N | Provider Mnemonic |  |
| 3.2 |  | ST | Y | N | Last Name |  |
| 3.3 |  | ST | Y | N | First Name |  |
| 3.4 |  | ST | O | N | Middle Name |  |
| 3.5 |  | ST | O | N | Suffix |  |
| 3.6 |  | ST | O | N | Title (Dr.) |  |
| 3.7 |  | ST | O | N | Degree |  |
| 3.15 | 3 | ST | Y | N | Provider Category Code | OTP |
|  |  |  |  |  |  |  |
| 4.1 |  | ST | Y | N | Provider Mnemonic |  |
| 4.2 |  | ST | Y | N | Last Name |  |
| 4.3 |  | ST | Y | N | First Name |  |
| 4.4 |  | ST | O | N | Middle Name |  |
| 4.5 |  | ST | O | N | Suffix |  |
| 4.6 |  | ST | O | N | Title (Dr.) |  |
| 4.7 |  | ST | O | N | Degree |  |
| 4.15 | 3 | ST | Y | N | Provider Category Code | FAP |
|  |  |  |  |  |  |  |
| 5.1 |  | ST | Y | N | Provider Mnemonic |  |
| 5.2 |  | ST | Y | N | Last Name |  |
| 5.3 |  | ST | Y | N | First Name |  |
| 5.4 |  | ST | O | N | Middle Name |  |
| 5.5 |  | ST | O | N | Suffix |  |
| 5.6 |  | ST | O | N | Title (Dr.) |  |
| 5.7 |  | ST | O | N | Degree |  |
| 5.15 | 3 | ST | Y | N | Provider Category Code | ERP |
|  |  |  |  |  |  |  |
| 6.1 |  | ST | Y | N | Provider Mnemonic |  |
| 6.2 |  | ST | Y | N | Last Name |  |
| 6.3 |  | ST | Y | N | First Name |  |
| 6.4 |  | ST | O | N | Middle Name |  |
| 6.5 |  | ST | O | N | Suffix |  |
| 6.6 |  | ST | O | N | Title (Dr.) |  |
| 6.7 |  | ST | O | N | Degree |  |
| 6.15 | 3 | ST | Y | N | Provider Category Code | PCP |

# Escape Sequences in Text Fields

**Formatting codes**

When a field of type TX, FT, or CF is being encoded, the escape character may be used to signal certain special characteristics of portions of the text field. The escape character is whatever display ASCII character is specified in the Escape Character component of MSH-2-encoding characters. For purposes of this section, the character \ will be used to represent the character so designated in a message. An **escape sequence** consists of the escape character followed by an escape code ID of one character, zero (0) or more data characters, and another occurrence of the escape character. The following escape sequences are defined:

\H\ start highlighting

\N\ normal text (end highlighting)

\F\ field separator

\S\ component separator

\T\ subcomponent separator

\R\ repetition separator

\E\ escape character

\Xdddd...\ hexadecimal data

\Zdddd...\ locally defined escape sequence

The **escape sequences** for field separator, component separator, subcomponent separator, repetition separator, and escape character are also valid within an ST data field.

# FAQ

##### Which physicians will receive results?

Results are sent to all physicians found in the ZDR segment of a message. This may include one, more, or all physicians in the following categories:

ADP – Admitting Provider

ADT – Attending Provider

OTP – Other Provider

FAP – Family Provider

ERP – Emergency Room Provider

PCP – Primary Care Provider

##### Are messages Sent via basic TCP/IP sockets, or at a higher level such as HTTPS?

Messages are sent via TCP/IP using the Minimum Lower Layer Protocol (MLLP) and delivered to the EMR via HTTPS.

##### What is the protocol for transmission using TCP/IP.

All TCP/IP transmissions are sent compliant with the HL7 standard using the Minimal Lower Layer Protocol. Further information can be found in the HL7 Standard Version 2.3 on the HL7 ([www.hl7.org](http://www.hl7.org)) website.

##### Where does the filtering take place to ensure each Physician only receives results for his or her patients.

Reports are sent to all physicians associated to a patient for that report. An opt-out option exists for physicians who do not want to receive reports for patients they saw in the Emergency Room (ER).

# Message Examples

## Meditech 5.6

MSH|^~\&|IHARAD^2.1|KGH|RAD||201005171012||ORU^O01|953374324-S-920|D|2.3|||||||||

PID|1||0000001140||POI^TEST^IN 2|||M|||1461 GRAHAM STREET^^KELOWNA^BC^V1Y 3A9||250-555-8897|||S||AC000125/10|||||||||||||

PV1|1|I|2E^H2E^D^.|U|||BAKA^Bak^Adrian^W^^Dr|||ADMN|||||||GABLEER^Gable^Eric^G^^Dr|IN||SELF|||||||||||||||||||.||ADM IN|||200910201250|||||||||

ORC|RE|12419.001|000000920||S|||||||BAKA^Bak^Adrian^W^^Dr||||||||

OBR|1|12419.001|000000920|ABD^ABD/C-|||201005171010|||||||||BAKA^Bak^Adrian^W^^Dr|||CT||||||S||201005171010|ABBEYMA^Abbey^Mark^Douglas^^Dr~BAKA^Bak^Adrian^W^^Dr~DIEHLCH^Diehl^Chris^R^^Dr~GABLEER^Gable^Eric^G^^Dr~|||REASON FOR EXAM? AB PAIN|ABDM^AbdelKader^Mahmoud^A^^Dr||||||||||||

OBX|1|ST|1:RPT^Radiology Report||||||||F|

OBX|2|ST|1:RPT^Radiology Report||Test for POI||||||F|

OBX|3|ST|1:RPT^Radiology Report||||||||F|

OBX|4|ST|1:RPT^Radiology Report||Patient scan for EMR download||||||F|

OBX|5|ST|1:RPT^Radiology Report||||||||F|

OBX|6|ST|1:RPT^Radiology Report||||||||F|

OBX|7|ST|1:RPT^Radiology Report||Reported By: ||||||F|

OBX|8|ST|1:RPT^Radiology Report||||||||F|

ZDR|GABLEER^Gable^Eric^G^^Dr^^^^^^^^^ADP|BAKA^Bak^Adrian^W^^Dr^^^^^^^^^ATP| ABBEYMA^Abbey^Mark^Douglas^^Dr^^^^^^^^^OTP~BAKA^Bak^Adrian^W^^Dr^^^^^^^^^OTP~DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^OTP~GABLEER^Gable^Eric^G^^Dr^^^^^^^^^OTP||DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^FAP|DIEHLCH^Diehl^Chris^R^^Dr^^^^^^^^^ERP|ABBEYMA^Abbey^Mark^Douglas^^Dr^^^^^^^^^PCP|

