

HL7 Conformance Profile

(R)IS INBOUND ORR 002

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About this Conformance Profile

Conformance profile ORR Inbound from Order Placer

This profile describes the ORR message structure used to import order messages from a 3rd party order placer application into Impax RIS Order module. (QPOrder / Mediweb Order)

ORR messages are used in a workflow where the order was created in RIS (QDoc) and a placer order number was requested from the order placer.

The ORR message is used to assign a placer order number to a filler order.

The use case is described in the IHE Radiology Technical Framework - Scheduled Workflow - Transaction RAD-3 : Filler Order Management.

History:

2009-02-27 - Creation - Nico Vannieuwenhuyze

2016-10-17 - Update - CÃ©deric Missinne

Remarks:

Segments present in the message structure, but marked as -not supported- are allowed to be present in the message, but are not processed.

The same counts for fields, components, subcomponents marked as not supported.

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message.

HL7Server5 only supports original mode acknowledgements, enhanced acks are not supported.

Please verify length attributes at the lowest level of detail if a field consists of components, subcomponents.

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

Conformance parameters

Message Profile

- HL7 Version: 2.4
- Profile Type: Constrainable
- Topics: confsig-AGFA/QUADRAT-2.4-profile-accNE_accNE-Immediate

Encoding Method (s)

ER7, XML

Interaction 1

Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: NE
- Acknowledgement Mode: Immediate

Static Definition

- Event Description: ORR - Order response (also RRE, RRD, RRG, RRA)
- Message Type: ORR
- Trigger Event: O02
- Message Structure: ORR_O02
- Topics: confsig-AGFA/QUADRAT-2.4-static-ORR-O02-null-ORR_O02-2005.3.3--Receiver

Message structure

MSH MSA [ERR] {[NTE]} [[{ [PID]} {[NTE]}]] [ORC OBR {[NTE]} {[CTI]}]]

MSH - Message Header

- Usage: Required
- Cardinality:1..1

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|------|----------------------|--------|---------|------|------|-------|---------------------------|
| 1 | Field Separator | ST | | 1 | R | 1..1 | e.g. |
| 2 | Encoding Characters | ST | | 4 | R | 1..1 | e.g. ^~\& |
| 3 | Sending Application | HD | HL70361 | 227 | O | 0..1 | |
| 3.1 | namespace ID | IS | | 50 | O | .. | e.g. HIS1 |
| 4 | Sending Facility | HD | HL70362 | 227 | O | 0..1 | |
| 4.1 | namespace ID | IS | | 50 | O | .. | e.g. FAC1 |
| 7 | Date/Time Of Message | TS | | 26 | R | 1..1 | |
| 7.1 | Date/Time | NM | | 24 | O | .. | e.g. 20060125163934110 |
| 9 | Message Type | CM_MSG | HL70076 | 15 | R | 1..1 | |
| 9.1 | message type | ID | HL70076 | 3 | R | .. | e.g. ORR |
| 9.2 | trigger event | ID | HL70003 | 3 | R | .. | e.g. O02 |
| 9.3 | message structure | ID | HL70354 | 7 | O | .. | e.g. ORR_O02 |
| 10 | Message Control ID | ST | | 20 | R | 1..1 | e.g. UC01_TR02A_003320 |
| 11 | Processing ID | PT | | 3 | R | 1..1 | |
| 11.1 | processing ID | ID | HL70103 | 3 | O | .. | e.g. P |
| 12 | Version ID | VID | HL70104 | 973 | R | 1..1 | |
| 12.1 | version ID | ID | HL70104 | 3 | O | .. | e.g. 2.4 |
| 18 | Character Set | ID | HL70211 | 16 | O | 0..* | e.g. 8859/1 |

1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2-encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message. Recommended value and used by Agfa is |, (ASCII 124).

2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition

separator, escape character, and subcomponent separator. Recommended values and used by Agfa Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined and a parameter for Agfa.

7. Date/Time Of Message

This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone !

9. Message Type

Should be ORR^O02

10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA).

11. Processing ID

No difference in processing by HL7SERVER5 if Production or Test

12.1. version ID

Versions supported by HL7SERVER5 are 2.2, 2.3, 2.3.1, 2.4

18. Character Set

Character set has to be a subset of the Windows ANSI codepage of the pc where HL7SERVER5 is running ! e.g. ISO 8859/1 on a windows 1252 code page UTF-8 is not supported !

MSA - Message Acknowledgment

- Usage: Required
- Cardinality: 1..1

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|------|---------------------|------|---------|------|------|-------|----------------|
| 1 | Acknowledgment Code | ID | HL70008 | 2 | R | 1..1 | e.g. AA |
| 2 | Message Control ID | ST | | 20 | R | 1..1 | e.g. 123131313 |

1. Acknowledgment Code

Only AA, AR and AE are supported. AA=success, AR and AE=error

ERR - Error

- Usage: Optional
- Cardinality: 0..1

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|-------|-------------------------|--------|-------|------|------|-------|----------------------|
| 1 | Error Code and Location | CM_ELD | | 493 | O | 0..* | |
| 1.4 | code identifying error | CE | | 538 | O | .. | |
| 1.4.2 | text | ST | | 254 | O | .. | e.g. Unknown patient |

1.4.2. text

In case of error this message will be written in the interface log file.

NTE - Notes and Comments

- Usage: Not supported

Segment group: RESPONSE

- Usage: Optional
- Cardinality: 0..1

Segment group: PATIENT

- Usage: Not supported

PID - Patient identification

- Usage: Not supported

NTE - Notes and Comments

- Usage: Not supported

End of segment group PATIENT

Segment group: ORDER

- Usage: Optional
- Cardinality: 0..1

ORC - Common Order

- Usage: Required
- Cardinality: 1..1

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|------|---------------------|------|-------|------|------|-------|---------------|
| 1 | Order Control | ID | | 2 | R | 1..1 | e.g. NA |
| 2 | Placer Order Number | EI | | 427 | R | 1..1 | |
| 2.1 | entity identifier | ST | | 50 | R | .. | e.g. 4697974 |
| 2.2 | namespace ID | IS | | 20 | R | .. | e.g. HIS1 |
| 3 | Filler Order Number | EI | | 427 | R | 1..1 | |
| 3.1 | entity identifier | ST | | 20 | R | .. | e.g. 90227001 |
| 3.2 | namespace ID | IS | | 20 | R | .. | e.g. RAD |
| 4 | Placer Group Number | EI | | 427 | O | 0..1 | |
| 4.1 | entity identifier | ST | | 50 | O | .. | e.g. 4679878 |
| 4.2 | namespace ID | IS | | 20 | O | .. | e.g. HIS1 |

1. Order Control

Should be NA (number assign)

2.1. entity identifier

Order (session) id from order placer system

2.2. namespace ID

Used to identify the order placer - required when multiple order placer systems are in place.

3.1. entity identifier

Filler order number. Copy from ORM^O01 message sent by QDoc.

3.2. namespace ID

QDoc performing department code.

4. Placer Group Number

Used to group procedures in an order session.

4.1. entity identifier

If a notion of order session is used (to group different procedures within one order) this field should contain a unique identifier for the order session.

OBR - Observation Request

- Usage: Required
- Cardinality:1..1

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|------|------------------------------|------|-------|------|------|-------|-----------------------------|
| 1 | Set ID - OBR | SI | | 4 | O | 0..1 | e.g. 1 |
| 2 | Placer Order Number | EI | | 427 | R | 1..1 | |
| 2.1 | entity identifier | ST | | 50 | R | .. | e.g. 4697974 |
| 2.2 | namespace ID | IS | | 20 | O | .. | e.g. HIS1 |
| 3 | Filler Order Number | EI | | 427 | R | 1..1 | |
| 3.1 | entity identifier | ST | | 20 | R | .. | e.g. 90227001 |
| 3.2 | namespace ID | IS | | 3 | R | .. | e.g. RAD |
| 4 | Universal Service Identifier | CE | | 483 | R | 1..1 | |
| 4.1 | identifier | ST | | 20 | R | .. | e.g. CXR |
| 4.2 | text | ST | | 50 | O | .. | e.g. Chest X-Ray PA and LAT |
| 4.3 | name of coding system | IS | | 20 | R | .. | e.g. HIS1 |

1. Set ID - OBR

If ORC-4 Group number is not used the value of OBR-1 is stored as ID of the procedure. Ideally is when the unique order number is sent in OBR-2, this value should be unique on exam level. When that is not the case, OBR-1 is used as unique ID on exam level. OBR-1 should have a unique number within the message. Change related to: PRB0048965 A new HL7Server5 ORM parameter is available: ORROnlyUpdatePlacerOrderNumber. When enabled only updates related to the placer order number and placer group number are done. Nothing else will be updated or created in the database.

2. Placer Order Number

Should match ORC-2

3. Filler Order Number

Should match ORC-3

4. Universal Service Identifier

Procedure identifiers from an order placer system can be mapped to Agfa procedures using the Ordermapping option in the interface configuration tool.

NTE - Notes and Comments

- Usage: Not supported

CTI - Clinical Trial Identification

- Usage: Not supported

End of segment group ORDER

End of segment group RESPONSE