

# HL7 Conformance Profile

# **(R)IS OUTBOUND ORU REPORTS**

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## Conformance parameters

### Message Profile

- HL7 Version: 2.4
- Profile Type: Constrainable
- Topics: confsig-AGFA-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: ORU/ACK - Unsolicited transmission of an observation message
- Message Type: ORU
- Trigger Event: R01
- Message Structure: ORU\_R01
- Topics: confsig-AGFA-2.4-static-ORU-R01-null-ORU\_R01-2005.3.4--Sender

### Message structure

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

### 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. QDOC           |
| 4    | Sending Facility      | HD     | HL70362 | 227  | O    | 0..1  |                     |
| 4.1  | namespace ID          | IS     |         | 50   | O    | ..    | e.g. AGFA           |
| 5    | Receiving Application | HD     |         | 227  | O    | 0..1  |                     |
| 5.1  | namespace ID          | IS     |         | 50   | O    | ..    | e.g. XXXX           |
| 6    | Receiving Facility    | HD     | HL70362 | 227  | O    | 0..1  |                     |
| 6.1  | namespace ID          | IS     |         | 50   | O    | ..    | e.g. XXXX           |
| 7    | Date/Time Of Message  | TS     |         | 26   | O    | 0..1  |                     |
| 7.1  | Date/Time             | NM     |         | 14   | R    | ..    | e.g. 20080125045431 |
| 9    | Message Type          | CM_MSG | HL70076 | 15   | O    | 0..1  |                     |
| 9.1  | message type          | ID     | HL70076 | 3    | O    | ..    | e.g. ORU            |
| 9.2  | trigger event         | ID     | HL70003 | 3    | O    | ..    | e.g. R01            |
| 9.3  | message structure     | ID     | HL70354 | 7    | O    | ..    | e.g. ORU_R01        |
| 10   | Message Control ID    | ST     |         | 3    | O    | 0..1  | e.g. 37             |
| 11   | Processing ID         | PT     |         | 3    | O    | 0..1  |                     |
| 11.1 | processing ID         | ID     | HL70103 | 3    | O    | ..    | e.g. P              |
| 12   | Version ID            | VID    | HL70104 | 973  | O    | 0..1  |                     |
| 12.1 | version ID            | ID     | HL70104 | 3    | O    | ..    | e.g. 2.4            |

#### 5.1. namespace ID

Configurable

#### 6.1. namespace ID

Configurable

**12.1. version ID**

always 2.4

**Segment group: PATIENT RESULT**

- Usage: Required
- Cardinality:1..\*

**Segment group: PATIENT**

- Usage: Optional
- Cardinality: 0..1

**PID - Patient identification**

- Usage: Required
- Cardinality:1..1

| Seq.   | Name                                               | Type | Table   | Len. | Opt. | Card. | Contents            |
|--------|----------------------------------------------------|------|---------|------|------|-------|---------------------|
| 3      | Patient Identifier List                            | CX   |         | 1913 | O    | 0..*  |                     |
| 3.1    | ID                                                 | ST   |         | 200  | O    | ..    | e.g. 292291         |
| 3.2    | Check digit                                        | ST   |         | 200  | O    | ..    |                     |
| 3.3    | code identifying the check digit scheme employed   | ID   | HL70061 | 200  | O    | ..    |                     |
| 3.4    | assigning authority                                | HD   |         | 602  | O    | ..    |                     |
| 3.4.1  | namespace ID                                       | IS   | HL70363 | 200  | O    | ..    |                     |
| 3.4.2  | universal ID                                       | ST   |         | 200  | O    | ..    |                     |
| 3.4.3  | universal ID type                                  | ID   | HL70301 | 200  | O    | ..    |                     |
| 3.5    | identifier type code (ID)                          | ID   | HL70203 | 200  | O    | ..    |                     |
| 3.6    | assigning facility                                 | HD   |         | 602  | O    | ..    |                     |
| 3.6.1  | namespace ID                                       | IS   | HL70363 | 200  | O    | ..    |                     |
| 3.6.2  | universal ID                                       | ST   |         | 200  | O    | ..    |                     |
| 3.6.3  | universal ID type                                  | ID   | HL70301 | 200  | O    | ..    |                     |
| 3.7    | effective date (DT)                                | DT   |         | 8    | O    | ..    | e.g. 20050927       |
| 3.8    | expiration date                                    | DT   |         | 8    | O    | ..    | e.g. 20051027       |
| 4      | Alternate Patient ID - PID                         | CX   |         | 1913 | O    | 0..1  |                     |
| 4.1    | ID                                                 | ST   |         | 20   | O    | ..    |                     |
| 5      | Patient Name                                       | XPN  |         | 1103 | O    | 0..1  |                     |
| 5.1    | family name                                        | FN   |         | 174  | O    | ..    |                     |
| 5.1.1  | surname                                            | ST   |         | 30   | O    | ..    | e.g. O Connor       |
| 5.2    | given name                                         | ST   |         | 30   | O    | ..    | e.g. ANDREAS        |
| 5.3    | second and further given names or initials thereof | ST   |         | 3    | O    | ..    |                     |
| 7      | Date/Time Of Birth                                 | TS   |         | 26   | O    | 0..1  |                     |
| 7.1    | Date/Time                                          | NM   |         | 14   | R    | ..    | e.g. 19100502       |
| 8      | Administrative Sex                                 | IS   | HL70001 | 1    | O    | 0..1  | e.g. M              |
| 11     | Patient Address                                    | XAD  |         | 631  | O    | 0..*  |                     |
| 11.1   | street address (SAD)                               | SAD  |         | 338  | O    | ..    |                     |
| 11.1.1 | street or mailing address                          | ST   |         | 274  | O    | ..    | e.g. St Jansdreef 4 |
| 11.3   | city                                               | ST   |         | 30   | O    | ..    | e.g. GENT           |

| Seq. | Name                                  | Type | Table   | Len. | Opt. | Card. | Contents        |
|------|---------------------------------------|------|---------|------|------|-------|-----------------|
| 11.4 | state or province                     | ST   |         | 40   | O    | ..    | e.g. OVL        |
| 11.5 | zip or postal code                    | ST   |         | 20   | O    | ..    | e.g. 9000       |
| 11.6 | country                               | ID   | HL70399 | 20   | O    | ..    | e.g. BEL        |
| 13   | Phone Number - Home                   | XTN  |         | 850  | O    | 0..1  |                 |
| 13.1 | [(999)] 999-9999 [X99999][C any text] | TN   |         | 20   | O    | ..    | e.g. 051406544  |
| 14   | Phone Number - Business               | XTN  |         | 850  | O    | 0..1  |                 |
| 14.1 | [(999)] 999-9999 [X99999][C any text] | TN   |         | 3    | O    | ..    |                 |
| 15   | Primary Language                      | CE   | HL70296 | 483  | O    | 0..1  |                 |
| 15.1 | identifier                            | ST   |         | 20   | O    | ..    | e.g. N          |
| 16   | Marital Status                        | CE   | HL70002 | 483  | O    | 0..1  |                 |
| 16.1 | identifier                            | ST   |         | 1    | O    | ..    | e.g. M          |
| 18   | Patient Account Number                | CX   |         | 1913 | O    | 0..1  |                 |
| 18.1 | ID                                    | ST   |         | 50   | O    | ..    | e.g. 464678     |
| 19   | SSN Number - Patient                  | ST   |         | 20   | O    | 0..1  | e.g. 7406121546 |
| 23   | Birth Place                           | ST   |         | 30   | O    | 0..1  | e.g. Poeke      |
| 28   | Nationality                           | CE   | HL70212 | 483  | O    | 0..1  |                 |
| 28.1 | identifier                            | ST   |         | 20   | O    | ..    | e.g. BEL        |

**4.1. ID**

Patient extra code field in RIS

**18. Patient Account Number**

Patients most recent account number

**Segment group: VISIT**

- Usage: Optional
- Cardinality: 0..1

**PV1 - Patient visit**

- Usage: Required
- Cardinality: 1..1
- Implementation note: Visit information from the service request
- important: not always the active visit

| Seq. | Name               | Type | Table   | Len. | Opt. | Card. | Contents      |
|------|--------------------|------|---------|------|------|-------|---------------|
| 2    | Patient Class      | IS   | HL70004 | 3    | O    | 0..1  | e.g. 0        |
| 19   | Visit Number       | CX   |         | 1913 | O    | 0..1  |               |
| 19.1 | ID                 | ST   |         | 30   | O    | ..    | e.g. 31030001 |
| 50   | Alternate Visit ID | CX   | HL70203 | 1913 | O    | 0..1  |               |
| 50.1 | ID                 | ST   |         | 50   | O    | ..    |               |

**End of segment group VISIT****End of segment group PATIENT****Segment group: ORDER OBSERVATION**

- Usage: Required

- Cardinality:1..\*

## ORC - Common Order

- Usage: Optional

- Cardinality: 0..1

- Implementation note: ORC segment can be excluded if needed.

| Seq.   | Name                                               | Type | Table   | Len. | Opt. | Card. | Contents            |
|--------|----------------------------------------------------|------|---------|------|------|-------|---------------------|
| 1      | Order Control                                      | ID   | HL70119 | 3    | O    | 0..1  | e.g. RE             |
| 2      | Placer Order Number                                | EI   |         | 427  | O    | 0..1  |                     |
| 2.1    | entity identifier                                  | ST   |         | 130  | O    | ..    | e.g. 00010195       |
| 2.2    | namespace ID                                       | IS   |         | 20   | O    | ..    | e.g. HIS            |
| 3      | Filler Order Number                                | EI   |         | 427  | R    | 1..1  |                     |
| 3.1    | entity identifier                                  | ST   |         | 130  | R    | ..    | e.g. 31030001       |
| 3.2    | namespace ID                                       | IS   |         | 3    | R    | ..    | e.g. RAD            |
| 4      | Placer Group Number                                | EI   |         | 427  | O    | 0..1  |                     |
| 4.1    | entity identifier                                  | ST   |         | 20   | O    | ..    | e.g. 4646878        |
| 4.2    | namespace ID                                       | IS   |         | 20   | O    | ..    | e.g. HIS            |
| 5      | Order Status                                       | ID   | HL70038 | 3    | O    | 0..1  | e.g. CM             |
| 7      | Quantity/Timing                                    | TQ   |         | 1545 | O    | 0..*  |                     |
| 7.4    | start date/time                                    | TS   |         | 17   | O    | ..    |                     |
| 7.4.1  | Date/Time                                          | NM   |         | 14   | O    | ..    | e.g. 20031030112544 |
| 10     | Entered By                                         | XCN  |         | 3002 | O    | 0..*  |                     |
| 10.1   | ID number (ST)                                     | ST   |         | 40   | O    | ..    | e.g. QUADRAT        |
| 12     | Ordering Provider                                  | XCN  |         | 3002 | O    | 0..*  |                     |
| 12.1   | ID number (ST)                                     | ST   |         | 40   | O    | ..    | e.g. 4646           |
| 12.2   | family name                                        | FN   |         | 244  | O    | ..    |                     |
| 12.2.1 | surname                                            | ST   |         | 100  | O    | ..    | e.g. SWARTZ         |
| 12.3   | given name                                         | ST   |         | 30   | O    | ..    | e.g. Viktoria       |
| 12.4   | second and further given names or initials thereof | ST   |         | 12   | O    | ..    | e.g. S              |
| 12.6   | prefix (e.g., DR)                                  | ST   |         | 30   | O    | ..    | e.g. Dr .           |
| 13     | Enterer's Location                                 | PL   |         | 1230 | O    | 0..1  |                     |
| 13.1   | point of care                                      | IS   |         | 20   | O    | ..    | e.g. NU01           |
| 13.4   | facility (HD)                                      | HD   |         | 228  | O    | ..    |                     |
| 13.4.1 | namespace ID                                       | IS   |         | 20   | O    | ..    | e.g. FACILITY1      |
| 21     | Ordering Facility Name                             | XON  |         | 567  | O    | 0..1  |                     |
| 21.1   | organization name                                  | ST   |         | 20   | O    | ..    |                     |
| 25     | Order Status Modifier                              | CWE  |         | 705  | O    | 0..1  |                     |
| 25.1   | identifier (ST)                                    | ST   |         | 20   | O    | ..    | e.g. F              |
| 25.2   | text                                               | ST   |         | 20   | O    | ..    | e.g. Finished       |

### 1. Order Control

RE if the report is only for one procedure.

CN in case of a multi-procedure report except for the last ORC segment in the message.

### 3.1. entity identifier

RIS order identifier, can be set per procedure or per request.

### 3.2. namespace ID

Performing department

### 5. Order Status

IP if the exam is not yet finished, otherwise CM

### 7.4. start date/time

Execution date and time specified in the service request.

### 10. Entered By

User that last modified the service request.

### 12. Ordering Provider

Requesting physician specified in the service request.

### 13.1. point of care

Requesting department specified in the QDoc request

### 13.4. facility (HD)

Requesting hospital specified in the QDoc request

### 21.1. organization name

Requesting department

### 25.1. identifier (ST)

Procedure status code in QDoc

## OBR - Observation Request

- Usage: Required

- Cardinality:1..1

| Seq. | Name                         | Type | Table   | Len. | Opt. | Card. | Contents                        |
|------|------------------------------|------|---------|------|------|-------|---------------------------------|
| 1    | Set ID - OBR                 | SI   |         | 3    | O    | 0..1  | e.g. 1                          |
| 2    | Placer Order Number          | EI   |         | 427  | O    | 0..1  |                                 |
| 2.1  | entity identifier            | ST   |         | 20   | O    | ..    | e.g. 00010195                   |
| 2.2  | namespace ID                 | IS   |         | 20   | O    | ..    | e.g. HIS                        |
| 3    | Filler Order Number          | EI   |         | 427  | R    | 1..1  |                                 |
| 3.1  | entity identifier            | ST   |         | 130  | R    | ..    | e.g. 31030001                   |
| 3.2  | namespace ID                 | IS   |         | 20   | R    | ..    | e.g. RAD                        |
| 4    | Universal Service Identifier | CE   |         | 483  | R    | 1..1  |                                 |
| 4.1  | identifier                   | ST   |         | 300  | R    | ..    | e.g. RXTHORAX                   |
| 4.2  | text                         | ST   |         | 250  | O    | ..    | e.g. RX Thorax                  |
| 4.3  | name of coding system        | IS   | HL70396 | 20   | O    | ..    |                                 |
| 6    | Requested Date/Time          | TS   |         | 26   | O    | 0..1  |                                 |
| 6.1  | Date/Time                    | NM   |         | 14   | O    | ..    | e.g. 20031030112544             |
| 7    | Observation Date/Time #      | TS   |         | 26   | O    | 0..1  |                                 |
| 7.1  | Date/Time                    | NM   |         | 14   | O    | ..    | e.g. 20031030112544             |
| 13   | Relevant Clinical Info.      | ST   |         | 2048 | O    | 0..1  | e.g. Patient had a car accident |
| 16   | Ordering Provider            | XCN  |         | 3002 | O    | 0..1  |                                 |
| 16.1 | ID number (ST)               | ST   |         | 20   | O    | ..    | e.g. 4646                       |
| 16.2 | family name                  | FN   |         | 244  | O    | ..    |                                 |

| Seq.   | Name                                               | Type   | Table   | Len. | Opt. | Card. | Contents              |
|--------|----------------------------------------------------|--------|---------|------|------|-------|-----------------------|
| 16.2.1 | surname                                            | ST     |         | 100  | O    | ..    | e.g. SWARTZ           |
| 16.3   | given name                                         | ST     |         | 30   | O    | ..    | e.g. Viktoria         |
| 16.4   | second and further given names or initials thereof | ST     |         | 3    | O    | ..    | e.g. S                |
| 16.6   | prefix (e.g., DR)                                  | ST     |         | 30   | O    | ..    | e.g. Dr .             |
| 18     | Placer Field 1                                     | ST     |         | 30   | O    | 0..1  | e.g. 00010195         |
| 20     | Filler Field 1 +                                   | ST     |         | 200  | O    | 0..1  |                       |
| 22     | Results Rpt/Status Chng - Date/Time +              | TS     |         | 26   | O    | 0..1  |                       |
| 22.1   | Date/Time                                          | NM     |         | 14   | O    | ..    | e.g. 20031030112818   |
| 24     | Diagnostic Serv Sect ID                            | ID     |         | 100  | O    | 0..1  | e.g. RAD              |
| 25     | Result Status +                                    | ID     | HL70123 | 3    | R    | 1..1  | e.g. F                |
| 28     | Result Copies To                                   | XCN    |         | 3002 | O    | 0..*  |                       |
| 28.1   | ID number (ST)                                     | ST     |         | 20   | O    | ..    | e.g. 4646             |
| 28.2   | family name                                        | FN     |         | 244  | O    | ..    |                       |
| 28.2.1 | surname                                            | ST     |         | 100  | O    | ..    | e.g. SWARTZ           |
| 28.3   | given name                                         | ST     |         | 30   | O    | ..    | e.g. Viktoria         |
| 30     | Transportation Mode                                | ID     | HL70124 | 4    | O    | 0..1  | e.g. WALK             |
| 32     | Principal Result Interpreter +                     | CM_NDL |         | 835  | O    | 0..1  |                       |
| 32.1   | name                                               | CN     |         | 219  | O    | ..    |                       |
| 32.1.1 | ID number (ST)                                     | ST     |         | 20   | O    | ..    | e.g. 5404221417       |
| 32.1.2 | family name                                        | FN     |         | 112  | O    | ..    |                       |
| 32.1.3 | given name                                         | ST     |         | 30   | O    | ..    | e.g. Jan-Erik         |
| 34     | Technician +                                       | CM_NDL |         | 835  | O    | 0..*  |                       |
| 34.1   | name                                               | CN     |         | 139  | O    | ..    |                       |
| 34.1.1 | ID number (ST)                                     | ST     |         | 10   | O    | ..    | e.g. TECH1            |
| 34.1.2 | family name                                        | FN     |         | 42   | O    | ..    |                       |
| 34.2   | start date/time                                    | TS     |         | 16   | O    | ..    |                       |
| 34.2.1 | Date/Time                                          | NM     |         | 14   | O    | ..    | e.g. 2003103000000000 |
| 34.3   | end date/time                                      | TS     |         | 16   | O    | ..    |                       |
| 34.3.1 | Date/Time                                          | NM     |         | 14   | O    | ..    | e.g. 20031030112500   |
| 35     | Transcriptionist +                                 | CM_NDL |         | 835  | O    | 0..*  |                       |
| 35.1   | name                                               | CN     |         | 139  | O    | ..    |                       |
| 35.1.2 | family name                                        | FN     |         | 52   | O    | ..    |                       |
| 35.1.3 | given name                                         | ST     |         | 30   | O    | ..    | e.g. Anna             |
| 35.2   | start date/time                                    | TS     |         | 16   | O    | ..    |                       |
| 35.2.1 | Date/Time                                          | NM     |         | 14   | O    | ..    | e.g. 20031030113031   |
| 35.3   | end date/time                                      | TS     |         | 16   | O    | ..    |                       |
| 35.3.1 | Date/Time                                          | NM     |         | 14   | O    | ..    | e.g. 20031030113113   |

**4.1. identifier**

Procedure code.

Configurable: can be QDoc procedure code or order placer procedure code.

**6. Requested Date/Time**

Date/time the order was created by the



order placer.

## 7. Observation Date/Time #

Procedure execution date and time.

## 16. Ordering Provider

Requesting physician

## 18. Placer Field 1

Accession number

Depends on ris parameter HL7PACS.AccessionNr

## 22. Results Rpt/Status Chng - Date/Time +

Configurable: report creation date or last report version creation/update date

## 24. Diagnostic Serv Sect ID

Performing department id

## 25. Result Status +

F (final),  
C (correction),  
S (partially validation),  
P (preliminary),  
R (not yet validated),  
D (delete)

## 28. Result Copies To

Addressees

## 30. Transportation Mode

Patient mobility: WALK, CART, WHLC

## 32. Principal Result Interpreter +

Report author or responsible physician

## Segment group: OBSERVATION

- Usage: Required
- Cardinality: 1..\*

## OBX - Observation/Result

- Usage: Optional
- Cardinality: 0..1

| Seq. | Name                   | Type | Table   | Len.  | Opt. | Card. | Contents                                      |
|------|------------------------|------|---------|-------|------|-------|-----------------------------------------------|
| 1    | Set ID - OBX           | SI   |         | 4     | O    | 0..1  | e.g. 1                                        |
| 2    | Value Type             | ID   | HL70125 | 2     | R    | 1..1  | e.g. FT                                       |
| 3    | Observation Identifier | CE   |         | 483   | O    | 0..1  |                                               |
| 3.1  | identifier             | ST   |         | 50    | O    | ..    | e.g. RXTHORAX                                 |
| 3.2  | text                   | ST   |         | 100   | O    | ..    | e.g. RX Thorax                                |
| 3.3  | name of coding system  | IS   |         | 100   | O    | ..    | e.g. AGFA                                     |
| 3.4  | alternate identifier   | ST   |         | 50    | O    | ..    | e.g. 305065                                   |
| 4    | Observation Sub-Id     | ST   |         | 20    | O    | 0..1  |                                               |
| 5    | Observation Value      | *    |         | 99999 | O    | 0..1  | e.g. Report first<br>line\br\report<br>second |

| Seq.   | Name                         | Type | Table   | Len. | Opt. | Card. | Contents                         |
|--------|------------------------------|------|---------|------|------|-------|----------------------------------|
|        |                              |      |         |      |      |       | line\br\report<br>third line\br\ |
| 11     | Observation Result Status    | ID   | HL70085 | 1    | O    | 0..1  | e.g. F                           |
| 14     | Date/Time of the Observation | TS   |         | 26   | O    | 0..1  |                                  |
| 14.1   | Date/Time                    | NM   |         | 14   | O    | ..    | e.g. 20031030112818              |
| 15     | Producer's ID                | CE   |         | 483  | O    | 0..1  |                                  |
| 15.1   | identifier                   | ST   |         | 10   | O    | ..    |                                  |
| 16     | Responsible Observer         | XCN  |         | 3002 | O    | 0..1  |                                  |
| 16.1   | ID number (ST)               | ST   |         | 20   | O    | ..    | e.g. PERPHYS                     |
| 16.2   | family name                  | FN   |         | 244  | O    | ..    |                                  |
| 16.2.1 | surname                      | ST   |         | 100  | O    | ..    | e.g. Performing                  |
| 16.3   | given name                   | ST   |         | 30   | O    | ..    | e.g. Jan-Erik                    |

## 2. Value Type

Depends on configuration: can be FT (formatted text), TX (line by line) or RP (reference pointer)

### 3.1. identifier

Procedure code & observation sub id of suffix (e.g. CXR&GDT). In case of an addendum the observation sub id is 'ADT'. If script parameter 'UseStructuredReporting' is used the sub id will be 'IMP'.

## 5. Observation Value

Report content or pointer to a file.

## 11. Observation Result Status

F (final),  
C (correction),  
S (partially validation),  
P (preliminary),  
R (not yet validated),  
D (delete)

## 14. Date/Time of the Observation

Report creation date and time

## 15. Producer's ID

Requested procedure account

## 16. Responsible Observer

Requested procedure performing physician.

## NTE - Notes and Comments

- Usage: Optional
- Cardinality: 0..1
- Implementation note: Only sent when an exam remark is registered in Qdoc.

| Seq. | Name    | Type | Table | Len. | Opt. | Card. | Contents               |
|------|---------|------|-------|------|------|-------|------------------------|
| 3    | Comment | FT   |       | 254  | O    | 0..1  | e.g. Bad image quality |

## 3. Comment

Requested procedure remark

*End of segment group OBSERVATION*

*End of segment group ORDER\_OBSERVATION*

*End of segment group PATIENT\_RESULT*