

# 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
11.4	state or province	ST		40	O	..	e.g. OVL

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
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. Poelke
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. O
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	..	
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	ST		3	O	..	e.g. S

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
	thereof						
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. 20031030000000
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 line\ .br\ report second line\ .br\ report 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

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
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***