

HL7 Conformance Profile

(R)IS OUTBOUND ORU REPORTS

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Publication date:

25 11 2020

Publication number:

Not yet assigned

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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. 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. 310300001
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. 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

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