
HL7 Conformance Profile

ORU

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Publication date:

25 11 2020

Publication number:

Not yet assigned

Corporate address:

AGFA HealthCare
SEPTESTRAAT 27
B-2640 MORTSEL
BELGIUM
+32(3)4448400

Conformance parameters

Message Profile

- Profile Type: Constrainable
- Topics: confsig---profile-accNE_accAL-Deferred

Encoding Method

ER7

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---static-ORU-R01-null-ORU_R01-2005.1.4--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	HL70363	30	O	..	e.g. QDOC
4	Sending Facility	HD	HL70362	227	O	0..1	
4.1	namespace ID	IS	HL70363	30	O	..	e.g. AGFA
5	Receiving Application	HD	HL70361	227	O	0..1	
5.1	namespace ID	IS	HL70363	30	O	..	e.g. XXXX
6	Receiving Facility	HD	HL70362	227	O	0..1	
6.1	namespace ID	IS	HL70363	30	O	..	e.g. XXXX
7	Date/Time Of Message	TS		26	O	0..1	
7.1	Date/Time	NM		14	R	..	e.g. 20050825150108
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. 211

3.1. namespace ID

parameter: 'MSH_SendingApplic', default: 'QDOC'

4.1. namespace ID

parameter: 'MSH_SendingFacility', default: 'AGFA'

5.1. namespace ID

parameter: MSH_ReceivingApplic, default: 'XXXX'

6.1. namespace ID

parameter: 'MSH_ReceivingFacility', default: 'XXXX'

7.1. Date/Time

YYYYMMDDHHMMSS

current date and time

9.1. message type

fixed value: 'ORU'

9.2. trigger event

fixed value: 'R01'

9.3. message structure

fixed value: 'ORU_R01'

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	..	
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. 20050927
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	..	
5.2	given name	ST		30	O	..	e.g. BART
5.3	second and further given names or initials thereof	ST		30	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
7	Date/Time Of Birth	TS		26	O	0..1	
7.1	Date/Time	NM		14	R	..	e.g. 000000000
8	Administrative Sex	IS	HL70001	1	O	0..1	e.g. U
10	Race	CE	HL70005	483	O	0..1	
10.1	identifier	ST		40	O	..	
11	Patient Address	XAD		631	O	0..1	
11.1	street address (SAD)	SAD		282	O	..	
11.1.1	street or mailing address	ST		274	O	..	
11.1.2	street name	ST		3	O	..	
11.1.3	dwelling number	ST		3	O	..	
11.3	city	ST		30	O	..	
11.4	state or province	ST		40	O	..	
11.5	zip or postal code	ST		20	O	..	
11.6	country	ID	HL70399	20	O	..	
13	Phone Number - Home	XTN		850	O	0..1	
13.2	telecommunication use code	ID	HL70201	3	O	..	
13.3	telecommunication equipment type (ID)	ID	HL70202	3	O	..	
13.4	Email address	ST		3	O	..	
13.7	Phone number	NM		15	O	..	
14	Phone Number - Business	XTN		850	O	0..1	
14.1	[(999)] 999-9999 [X99999][C any text]	TN		3	O	..	
14.2	telecommunication use code	ID	HL70201	3	O	..	
14.3	telecommunication equipment type (ID)	ID	HL70202	3	O	..	
14.4	Email address	ST		3	O	..	
14.5	Country Code	NM		3	O	..	
14.6	Area/city code	NM		3	O	..	
14.7	Phone number	NM		3	O	..	
14.8	Extension	NM		3	O	..	
14.9	any text	ST		3	O	..	
15	Primary Language	CE	HL70296	483	O	0..1	
15.1	identifier	ST		20	O	..	
16	Marital Status	CE	HL70002	483	O	0..1	
18	Patient Account Number	CX		1913	O	0..1	
18.1	ID	ST		50	O	..	
19	SSN Number - Patient	ST		20	O	0..1	
23	Birth Place	ST		30	O	0..1	
28	Nationality	CE	HL70212	483	O	0..1	
28.1	identifier	ST		20	O	..	

3.1. ID

patient_identifiers.pid_id, patients.p_natnumber

3.2. Check digit

patient_identifiers.pid_checkdigit

3.3. code identifying the check digit scheme employed

patient_identifiers.pid_checkdigitschema

3.4.1. namespace ID

patient_id_assigning_auth.pidasauth_namespaceid, qml_id_links.qml_application

3.4.2. universal ID

patient_id_assigning_auth.pidasauth_uid

3.4.3. universal ID type

patient_id_assigning_auth.pidasauth_uid type

3.5. identifier type code (ID)

patient_identifiers.pid_typecode

3.6.1. namespace ID

patient_id_assigning_facility.pidasfac_namespaceid

3.6.2. universal ID

patient_id_assigning_facility.pidasfac_uid

3.6.3. universal ID type

patient_id_assigning_facility.pidasfac_uid type

3.7. effective date (DT)

YYYYMMDD

patient_identifiers.pid_effective_date

3.8. expiration date

! In use from release 2005.2.0 !

YYYYMMDD

Parameter: IncludeExpiredIdentifiers

Only included if IncludeExpiredIdentifiers = 1 and expiration date is a valid date

4.1. ID

patients.p_extracode

5.1.1. surname

patients.p_name

5.2. given name

patients.p_fname

5.3. second and further given names or initials thereof

patients.p_mname

7.1. Date/Time

YYYYMMDDHHMMSS

patients.p_born

8. Administrative Sex

patients.p_sex

10.1. identifier

patient_items.pi_value['RACE']

11.1.1. street or mailing address

pat_addresses.pa_street + pat_addresses.pa_streetnr, patients.p_street + patients.p_streetnr

11.3. city

patients.p_town, pat_addresses.pa_town

11.4. state or province

patient_items.pi_value['PROVINCE']

11.5. zip or postal code

patients.p_zip, pat_addresses.pa_zip

11.6. country

countries.co_code

13.2. telecommunication use code

NET when there is an email address

13.3. telecommunication equipment type (ID)

FX when there is a fax number

13.7. Phone number

patients.p_phone

14.7. Phone number

patients.p_secondphone

15.1. identifier

languages.lan_code

18.1. ID

transfers.tr_reference, patient_items.pi_value['ACCOUNTNR']

19. SSN Number - Patient

mutgegevens.mu_number

23. Birth Place

patients.p_birthplace

28.1. identifier

countries.co_code

Segment group: g3O - g1R.g2O.g3O

- Usage: Optional

- Cardinality: 0..1

PV1 - Patient visit

- Usage: Required

- Cardinality: 1..1

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. LUD150848
19.3	code identifying the check digit scheme employed	ID	HL70061	3	O	..	
19.4	assigning authority	HD		11	O	..	
19.4.1	namespace ID	IS	HL70363	3	O	..	
19.4.2	universal ID	ST		3	O	..	
19.4.3	universal ID type	ID	HL70301	3	O	..	
19.5	identifier type code (ID)	ID	HL70203	3	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
19.6	assigning facility	HD		11	O	..	
19.6.1	namespace ID	IS	HL70363	3	O	..	
19.6.2	universal ID	ST		3	O	..	
19.6.3	universal ID type	ID	HL70301	3	O	..	
19.7	effective date (DT)	DT		3	O	..	
19.8	expiration date	DT		3	O	..	
50	Alternate Visit ID	CX	HL70203	1913	O	0..1	
50.1	ID	ST		50	O	..	

2. Patient Class

fixed values: 'O', 'I'

19.1. ID

gbprestatiegroep.pathospitalnr, gbprestatiegroep.clientref, transfers.tr_admission_nr

50.1. ID

qp_request.qpreq_extid

End of segment group g3O

End of segment group PATIENT

Segment group: ORDER OBSERVATION

- Usage: Required
- Cardinality: 1..*

ORC - Common Order

- Usage: Optional
- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Order Control	ID	HL70119	3	O	0..1	
2	Placer Order Number	EI		427	R	1..1	
2.1	entity identifier	ST		130	R	..	
3	Filler Order Number	EI		427	O	0..1	
3.1	entity identifier	ST		130	O	..	
5	Order Status	ID	HL70038	3	O	0..1	
7	Quantity/Timing	TQ		1545	O	0..*	
7.4	start date/time	TS		16	O	..	
7.4.1	Date/Time	NM		14	O	..	e.g. 20040328134602
10	Entered By	XCN		3002	O	0..*	
10.1	ID number (ST)	ST		40	O	..	
12	Ordering Provider	XCN		3002	O	0..*	
12.1	ID number (ST)	ST		40	O	..	
12.2	family name	FN		244	O	..	
12.2.1	surname	ST		100	O	..	
12.3	given name	ST		30	O	..	
12.4	second and further given names or initials thereof	ST		12	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
12.6	prefix (e.g., DR)	ST		30	O	..	
21	Ordering Facility Name	XON		567	O	0..*	
21.1	organization name	ST		100	O	..	
25	Order Status Modifier	CWE		705	O	0..1	
25.1	identifier (ST)	ST		30	O	..	

1. Order Control

fixed value: 'CN'

if last ORC then use the fixed value: 'RE'

2.1. entity identifier

qp_request.qpreq_extid (+ ^ + qp_request.qpreq_application) OR

qp_requesttopic.qpreqtop_extid OR

rq_exams.rqex_extorderidnr OR

gbprestatiegroep.refvoorschrijver OR

qpqd_link.qpqd_studyid (+ ^ + services.s_hospitalkey) OR

rq_exams.rqex_key (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.sleutel (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.clientref (+ ^ + services.s_hospitalkey)

3.1. entity identifier

qp_request.qpreq_extid (+ ^ + qp_request.qpreq_application) OR

qp_requesttopic.qpreqtop_extid OR

rq_exams.rqex_extorderidnr OR

gbprestatiegroep.refvoorschrijver OR

qpqd_link.qpqd_studyid (+ ^ + services.s_hospitalkey) OR

rq_exams.rqex_key (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.sleutel (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.clientref (+ ^ + services.s_hospitalkey)

5. Order Status

fixed value: 'IP', 'CM'

7.4.1. Date/Time

YYYYMMDDHHMMSS

gbprestatiegroep.planuitvoering

10.1. ID number (ST)

gbprestatiegroep.changedby

12.1. ID number (ST)

doctors.d_hospitalkey

12.2.1. surname

doctors.d_lname

12.3. given name

doctors.d_fname

12.4. second and further given names or initials thereof

doctors.d_initials

12.6. prefix (e.g., DR)

doctors.d_title

21.1. organization name

services.s_hospitalkey

25.1. identifier (ST)

status_exam.st_name1

Segment group: OBSERVATION

- Usage: Required

- Cardinality:1..*

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		130	O	..	e.g. LUD150848
3	Filler Order Number	EI		427	O	0..1	
3.1	entity identifier	ST		130	O	..	e.g. LUD150848
4	Universal Service Identifier	CE		483	R	1..1	
4.1	identifier	ST		300	R	..	e.g. 322 00-2467
4.2	text	ST		250	O	..	e.g. LUNGOR
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	R	..	e.g. 20010904000000
7	Observation Date/Time #	TS		26	O	0..1	
7.1	Date/Time	NM		14	R	..	e.g. 20010904000000
13	Relevant Clinical Info.	ST		2048	O	0..1	e.g. FR_GEST_LLNING:
16	Ordering Provider	XCN		3002	O	0..*	
16.1	ID number (ST)	ST		20	O	..	
16.2	family name	FN		244	O	..	
16.2.1	surname	ST		100	O	..	e.g. Persson
16.3	given name	ST		30	O	..	e.g. Magnus
16.4	second and further given names or initials thereof	ST		3	O	..	e.g. FP
16.6	prefix (e.g., DR)	ST		30	O	..	e.g. FP
18	Placer Field 1	ST		30	O	0..1	e.g. 00000676
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	R	..	e.g. 20041118163924
24	Diagnostic Serv Sect ID	ID	HL70074	100	O	0..1	e.g. LUDVIKA
25	Result Status +	ID	HL70123	3	O	0..1	e.g. R
28	Result Copies To	XCN		3002	O	0..*	
28.1	ID number (ST)	ST		20	O	..	
28.2	family name	FN		116	O	..	
28.2.1	surname	ST		100	O	..	e.g. Persson
28.2.2	own surname prefix	ST		3	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
28.2.3	own surname	ST		3	O	..	
28.2.4	surname prefix from partner/spouse	ST		3	O	..	
28.2.5	surname from partner/spouse	ST		3	O	..	
28.3	given name	ST		30	O	..	e.g. Magnus
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		223	O	..	
32.1.1	ID number (ST)	ST		20	O	..	
32.1.2	family name	FN		116	O	..	
32.1.3	given name	ST		30	O	..	e.g. Jan-Erik
34	Technician +	CM_NDL		835	O	0..*	
34.1	name	CN		129	O	..	
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. 0000000000000000
34.3	end date/time	TS		16	O	..	
34.3.1	Date/Time	NM		14	O	..	e.g. 20020307122700
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. AGFA
35.2	start date/time	TS		16	O	..	
35.2.1	Date/Time	NM		14	O	..	e.g. 20041118163858
35.3	end date/time	TS		16	O	..	
35.3.1	Date/Time	NM		14	O	..	e.g. 20041118163924

1. Set ID - OBR

fixed value: '1', counter

2.1. entity identifier

qp_request.qpreq_extid (+ ^ + qp_request.qpreq_application) OR

qp_requesttopic.qpreqtop_extid OR

rq_exams.rqex_extorderidnr OR

gbprestatiegroep.refvoorschrijver OR

qpqd_link.qpqd_studyid (+ ^ + services.s_hospitalkey) OR

rq_exams.rqex_key (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.sleutel (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.clientref (+ ^ + services.s_hospitalkey)

3.1. entity identifier

qp_request.qpreq_extid (+ ^ + qp_request.qpreq_application) OR

qp_requesttopic.qpreqtop_extid OR

rq_exams.rqex_extorderidnr OR

gbprestatiegroep.refvoorschrijver OR

qpqd_link.qpqd_studyid (+ ^ + services.s_hospitalkey) OR

rq_exams.rqex_key (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.sleutel (+ ^ + services.s_hospitalkey) OR

gbprestatiegroep.clientref (+ ^ + services.s_hospitalkey)

4.1. identifier

exams.ex_code & '~' & exams.ex_name, protocoltypes.pt_description, reports.r_template, exams.ex_code, hl7_order_placer_exams.ope_exam_id

4.2. text

exams.ex_name, hl7_order_placer_exams.ope_exam_description

4.3. name of coding system

hl7_order_placer_exams.ope_codingsystem

6.1. Date/Time

YYYYMMDDHHMMSS

gbprestatiegroep.ontvvoorschrift, reports.r_datewritten

7.1. Date/Time

YYYYMMDDHHMMSS

gbprestatiegroep.planuitvoering, reports.r_datewritten

13. Relevant Clinical Info.

gbprestatiegroep.clininfo

16.1. ID number (ST)

doctors.d_hospitalkey

16.2.1. surname

doctors.d_lname

16.3. given name

doctors.d_fname

16.4. second and further given names or initials thereof

doctors.d_initials

16.6. prefix (e.g., DR)

doctors.d_title

18. Placer Field 1

qpqd_link.qpqd_studyid, rq_exams.rqex_key, qpqd_link.qpqd_accesionnr,

20. Filler Field 1 +

services.s_hospitalkey & ^ &

services.s_name

22.1. Date/Time

YYYYMMDDHHMMSS

reports.r_datewritten (or object_version_desc.ovd_changedate depending new parameter in version 2005.3.0)

24. Diagnostic Serv Sect ID

services.s_hospitalkey

25. Result Status +

Standard values: 'X', 'F', 'P', 'R', 'C'.

In case of custom scripts, other values can be sent. E.g. 'D' instead of 'X'.

28.1. ID number (ST)

doctors.d_hospitalkey

28.2.1. surname

doctors.d_lname

28.3. given name

doctors.d_fname

30. Transportation Mode

fixed values: 'WALK', 'CART', 'WHLC'

32.1.1. ID number (ST)

doctors.d_hospitalkey

32.1.3. given name

doctors.d_fname

34.2.1. Date/Time

YYYYMMDDHHMMSS

rq_exams.rqex_start

34.3.1. Date/Time

YYYYMMDDHHMMSS

rq_exams.rqex_done

35.1.3. given name

users.u_fname

35.2.1. Date/Time

YYYYMMDDHHMMSS

if the letter_status.ls_status = 'LR' or 'LS' letter_status.ls_insertdate

35.3.1. Date/Time

YYYYMMDDHHMMSS

if the letter_status.ls_status = 'ML' or 'NL' letter_status.ls_insertdate

OBX - Observation/Result

- Usage: Optional

- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - OBX	SI		3	O	0..1	e.g. 1
2	Value Type	ID	HL70125	3	R	1..1	e.g. FT
3	Observation Identifier	CE		483	O	0..1	
3.1	identifier	ST		50	O	..	
3.2	text	ST		100	O	..	e.g. LUNGOR
3.3	name of coding system	IS	HL70396	100	O	..	e.g. AGFA
3.4	alternate identifier	ST		50	O	..	e.g. 304160
5	Observation Value	*		200	O	0..1	e.g. <Max Value length Exceeded>
11	Observation Result Status	ID	HL70085	3	O	0..1	e.g. C
14	Date/Time of the Observation	TS		26	O	0..1	
14.1	Date/Time	NM		14	O	..	e.g. 200110290000000
15	Producer's ID	CE		483	O	0..1	
15.1	identifier	ST		10	O	..	e.g. LUD
16	Responsible Observer	XCN		3002	O	0..1	
16.1	ID number (ST)	ST		20	O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
16.2	family name	FN		244	O	..	
16.2.1	surname	ST		100	O	..	e.g. Bergkvist
16.3	given name	ST		30	O	..	e.g. Jan-Erik

1. Set ID - OBX

fixed value: 'O'

2. Value Type

fixed values: 'RP', 'FT'

3.1. identifier

if orc is included:

object_version_desc.ovd_report & '&GDT' OR
gbprestatiegroep.clientref & '&GDT' OR
gbprestatiegroep.refvoorschrijver & '&GDT' OR
qpqd_link.qpqd_visited & '&GDT'

if orc is not included: exams.ex_code & '&GDT'

3.2. text

if orc is included: services.s_hospitalkey

if orc is not included: exams.ex_name

3.3. name of coding system

if orc is included: services.s_hospitalkey

if orc is not included: fixed value: 'AGFA'

3.4. alternate identifier

if orc is not included: exams.ex_key OR rq_exams.rqex_key OR rq_exams.rqex_extorderidnr OR
qpqd_link.qpqd_studyid OR exams.ex_key

5. Observation Value

parameter: 'sFile', 'sObservationValue'

11. Observation Result Status

Standard values: 'D', 'C', 'F', 'S', 'P', 'R'

In case of custom scripts, other values can be sent.

14.1. Date/Time

YYYYMMDDHHMMSS

reports.r_datewritten

15.1. identifier

accounts.a_code

16.1. ID number (ST)

doctors.d_hospitalkey

16.2.1. surname

doctors.d_lname

16.3. given name

doctors.d_fname

End of segment group OBSERVATION

NTE - Notes and Comments

- Usage: Optional
- Cardinality:0..*

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
4	Comment Type	CE	HL70364	483	O	0..1	
4.2	text	ST		254	O	..	

4.2. text

rq_exams.rqex_remark

End of segment group ORDER_OBSERVATION

End of segment group PATIENT_RESULT