

Technical HL7 Conformance Profile

ENTERPRISE IMAGING OUTBOUND ORU_R01 - ASCII ENCAPSULATED DATA-ORU_R01

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Message Profile

Conformance parameters

Message Profile

- HL7 Version: 2.4
- Profile Type: HL7

Encoding Method

ER7

Interaction 1

Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: AL
- Acknowledgement Mode: Deferred

Static Definition

- Message Type: ORU
- Trigger Event: R01
- Message Structure: ORU_R01

Message structure

MSH { [**PID** [**PD1**] [**PV1**]] { [**ORC**] **OBR** [**NTE**] **ZDS** {[**DG1**]} { Segment that repeats for section in the report and addenda **OBX** } } }

MSH - Message Header

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Field Separator	R	1..1	ST		
2	Encoding Characters	R	1..1	ST		
3	Sending Application	R	1..1	HD	HL70361	
3.1	namespace ID	R	1..1	IS	HL70363	
4	Sending Facility	R	1..1	HD	HL70362	
4.1	namespace ID	R	1..1	IS	HL70363	
5	Receiving Application	R	1..1	HD	HL70361	
5.1	namespace ID	R	1..1	IS	HL70363	
6	Receiving Facility	R	1..1	HD	HL70362	
6.1	namespace ID	R	1..1	IS	HL70363	
7	Date/Time Of Message	R	1..1	TS		
7.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
8	Security	O	0..1	ST		
9	Message Type	R	1..1	CM_MSG	HL70076	
9.1	message type	R	1..1	ID	HL70076	
9.2	trigger event	R	1..1	ID	HL70003	
9.3	message structure	O	0..	ID	HL70354	
10	Message Control ID	R	1..1	ST		
11	Processing ID	R	1..1	PT		
11.1	processing ID	R	1..1	ID	HL70103	
12	Version ID	R	1..1	VID	HL70104	
12.1	version ID	R	1..1	ID	HL70104	

1. Field Separator

2. Encoding Characters

3. Sending Application

3.1. namespace ID

AGFA_PACS

4. Sending Facility

4.1. namespace ID

AGFA

5. Receiving Application

5.1. namespace ID

Application defined in External device to which the message is being sent.

6. Receiving Facility

6.1. namespace ID

Facility defined in External device to which the message is being sent.

7. Date/Time Of Message

7.1. Date/Time

If EI is configured to send timezone information, datetime format YYYYMMDD[HHHMM[SS]][+/-ZZZZ] is used else YYYYMMDD[HHHMM[SS]] is used

8. Security

9. Message Type

9.1. message type

ORU

9.2. trigger event

R01

9.3. message structure

ORU_R01

10. Message Control ID

11. Processing ID

12. Version ID

12.1. version ID

Default: v2.4. supported versions (pipeline property, HL7 version): 2.3.1 - 2.4 - 2.5

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	Opt.	Card.	Type	Table	Contents
3	Patient Identifier List	R	1..*	CX		
3.1	ID	R	1..1	ST		
3.4	assigning authority	R	1..1	HD		
3.4.1	namespace ID	R	1..1	IS	HL70363	
3.4.2	universal ID	O	0..	ST		
3.4.3	universal ID type	O	0..	ID	HL70301	
3.5	identifier type code (ID)	R	1..1	ID	HL70203	
5	Patient Name	R	1..*	XPN		
5.1	family name	R	1..1	FN		
5.1.1	surname	R	1..1	ST		
5.1.2	own surname prefix	O	0..	ST		
5.2	given name	R	1..1	ST		
5.3	second and further given names or initials thereof	O	0..	ST		
5.4	suffix (e.g., JR or III)	O	0..	ST		
5.5	prefix (e.g., DR)	O	0..	ST		
5.7	name type code	O	0..	ID	HL70200	
5.8	Name Representation code	O	0..	ID	HL70465	
7	Date/Time Of Birth	O	0..1	TS		
7.1	Date/Time	R	1..1	NM		e.g. 20040328

Seq.	Name	Opt.	Card.	Type	Table	Contents
8	Administrative Sex	R	1..1	IS	HL70001	
11	Patient Address	O	0..*	XAD		
11.1	street address (SAD)	O	0..	SAD		
11.1.1	street or mailing address	O	0..	ST		
11.1.2	street name	O	0..	ST		
11.1.3	dwelling number	O	0..	ST		
11.2	other designation	O	0..	ST		
11.3	city	O	0..	ST		
11.4	state or province	O	0..	ST		
11.5	zip or postal code	O	0..	ST		
11.6	country	O	0..	ID		
11.7	address type	O	0..	ID	HL70190	
11.8	other geographic designation	O	0..	ST		
11.9	county/parish code	O	0..	IS		
11.12	address validity range	O	0..	DR		
11.12.1	range start date/time	O	0..	TS		
11.12.2	range end date/time	O	0..	TS		
13	Phone Number - Home	O	0..*	XTN		
13.1	Telephone Number	C	0..	TN		
13.2	telecommunication use code	R	1..1	ID	HL70201	
13.3	telecommunication equipment type (ID)	R	1..1	ID	HL70202	
13.4	Email address	O	0..	ST		
14	Phone Number - Business	O	0..*	XTN		
14.1	Telephone Number	C	0..	TN		
14.2	telecommunication use code	R	1..1	ID	HL70201	
14.3	telecommunication equipment type (ID)	R	1..1	ID	HL70202	
14.4	Email address	O	0..	ST		
19	SSN Number - Patient	O	0..1	ST		
29	Patient Death Date and Time	O	0..1	TS		
29.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
30	Patient Death Indicator	O	0..1	ID	HL70136	

3. Patient Identifier List

3.1. ID

Identification number or code for the patient.

3.4. assigning authority

The "Assigning authority" aka "Issuer of Patient ID" can consist of the following three parts:

- Namespace ID // Issuer of Patient ID
- Universal ID // Universal Entity ID
- Universal ID Type // Universal Entity ID Type

Namespace ID, or combination of Universal ID and Universal ID Type, unique define the issuer.
When no Universal ID is available in EI, only the Namespace ID is sent in PID-3.4

3.4.1. namespace ID

Identifier, if present in EI, of the Assigning Authority that issued the patient id.

If only the internal assigning authority (_NOAA or _CON) is available in EI, then namespace is not sent out.

3.4.2. universal ID

Universal Identifier of the Assigning Authority that issued the patient id.

Only send out if available in EI.

3.4.3. universal ID type

Universal Identifier type, always ISO, of the Universal Identifier if present in EI

Only send out if Universal Identifier is available in EI.

3.5. identifier type code (ID)

Supported values:

- PI = Patient Identifier,
- SS = Social Security number

5. Patient Name

5.1.1. surname

Patient

5.2. given name

Patient

5.3. second and further given names or initials thereof

Patient

5.4. suffix (e.g., JR or III)

Patient

5.5. prefix (e.g., DR)

Patient

5.7. name type code

Values used:

- Empty when fields specify patient name.
- M when fields specify patient maiden name

5.8. Name Representation code

Values used:

- A = Alphabetic name specified
- I = Ideographic name specified
- P = Phonetic name specified

7. Date/Time Of Birth**7.1. Date/Time**

YYYYMMDD

8. Administrative Sex

Values used:

- M = Male
- F = Female
- U = Unknown

11. Patient Address**11.1.1. street or mailing address**

communication_channel.Street (if communication_channel.Streetnr is empty)

11.1.2. street name

communication_channel.Street (if communication_channel.Streetnr is not empty)

11.1.3. dwelling number

communication_channel.Streetnr

11.2. other designation

communication_channel.Address_Line1

11.3. city

municipality.name

11.4. state or province

communication_channel.Address_Line3

11.5. zip or postal code

municipality.zip

11.6. country

communication_channel.country

11.7. address type

communication_channel.communication_type (H - for home address / O - for office address)

11.8. other geographic designation

communication_channel.Address_Line2

11.9. county/parish code

communication_channel.Address_Line4

11.12.1. range start date/time

Effective date from which address is valid.

11.12.2. range end date/time

Expiration date of validity off the address.

13. Phone Number - Home

13.1. Telephone Number

In case of telephone number/fax number/cellular number, the phone number is put in this field

13.2. telecommunication use code

Values used:

- PRN = Primary Residence Number
- WPN = Work Number
- NET = Network (email) Address

13.3. telecommunication equipment type (ID)

Values used:

- PH = Telephone
- FX =Fax
- CP = Cellular Phone
- Internet = Internet Address

13.4. Email address

In case of Network Email Address, the Email Address is put in this field

14. Phone Number - Business

14.1. Telephone Number

In case of telephone number/fax number/cellular number, the phone number is put in this field

14.2. telecommunication use code

Values used:

- PRN = Primary Residence Number
- WPN = Work Number
- NET = Network (email) Address

14.3. telecommunication equipment type (ID)

Values used:

- PH = Telephone
- FX =Fax

- CP = Cellular Phone
- Internet = Internet Address

14.4. Email address

In case of Network Email Address, the Email Address is put in this field

19. SSN Number - Patient

Social security number of the patient.

29. Patient Death Date and Time

29.1. Date/Time

YYYYMMDDHHMMSS

30. Patient Death Indicator

Values used:

- 1 patient deceased
- 0 patient still alive

PD1 - Patient Additional Demographic

- Usage: Optional
- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
4	Patient Primary Care Provider Name & ID No.	O	0..1	XCN		
4.1	ID number (ST)	O	0..	ST		
4.2	family name	O	0..	FN		
4.2.1	surname	O	0..	ST		
4.3	given name	O	0..	ST		
4.9	assigning authority	O	0..	HD		
4.9.1	namespace ID	O	0..	IS	HL70363	

4. Patient Primary Care Provider Name & ID No.

4.1. ID number (ST)

Primary Care Physician code.

4.2. family name

Physician Family Name

4.3. given name

Physician Given Name

4.9. assigning authority

Assigning authority that issued the physicians code.

Segment group: VISIT

- Usage: Required
- Cardinality:1..1

PV1 - Patient visit

- Usage: Optional
- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - PV1	O	0..1	SI		
2	Patient Class	R	1..1	IS	HL70004	
3	Assigned Patient Location	O	0..1	PL		
3.1	point of care	O	0..	IS	HL70302	
3.2	room	O	0..	IS	HL70303	
3.3	bed	O	0..	IS	HL70304	
3.4	facility (HD)	O	0..	HD		
3.4.1	namespace ID	O	0..	IS	HL70363	
4	Admission Type	O	0..1	IS	HL70007	
7	Attending Doctor	O	0..*	XCN	HL70010	
7.1	ID number (ST)	O	0..	ST		
7.2	family name	O	0..	FN		
7.2.1	surname	O	0..	ST		
7.3	given name	O	0..	ST		
7.4	second and further given names or initials thereof	O	0..	ST		
7.5	suffix (e.g., JR or III)	O	0..	ST		
7.6	prefix (e.g., DR)	O	0..	ST		
7.9	assigning authority	O	0..	HD		
7.9.1	namespace ID	O	0..	IS	HL70363	
8	Referring Doctor	O	0..*	XCN	HL70010	
8.1	ID number (ST)	O	0..	ST		
8.2	family name	O	0..	FN		
8.2.1	surname	O	0..	ST		
8.3	given name	O	0..	ST		
8.4	second and further given names or initials thereof	O	0..	ST		
8.5	suffix (e.g., JR or III)	O	0..	ST		
8.6	prefix (e.g., DR)	O	0..	ST		
8.9	assigning authority	O	0..	HD		
8.9.1	namespace ID	O	0..	IS	HL70363	
15	Ambulatory Status	O	0..*	IS	HL70009	

Seq.	Name	Opt.	Card.	Type	Table	Contents
16	VIP Indicator	O	0..1	IS	HL70099	
17	Admitting Doctor	O	0..*	XCN	HL70010	
17.1	ID number (ST)	O	0..	ST		
17.2	family name	O	0..	FN		
17.2.1	surname	O	0..	ST		
17.3	given name	O	0..	ST		
17.4	second and further given names or initials thereof	O	0..	ST		
17.5	suffix (e.g., JR or III)	O	0..	ST		
17.6	prefix (e.g., DR)	O	0..	ST		
17.9	assigning authority	O	0..	HD		
17.9.1	namespace ID	O	0..	IS	HL70363	
18	Patient Type	O	0..1	IS	HL70018	
19	Visit Number	R	1..1	CX		
19.1	ID	R	1..1	ST		
19.4	assigning authority	O	0..	HD		
19.4.1	namespace ID	O	0..	IS	HL70363	
44	Admit Date/Time	O	0..1	TS		
44.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
45	Discharge Date/Time	O	0..*	TS		
45.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600

1. Set ID - PV1

2. Patient Class

3. Assigned Patient Location

4. Admission Type

7. Attending Doctor

7.1. ID number (ST)

physician identifier.

7.2.1. surname

Family name of the physician.

7.3. given name

Given name of the physician.

7.4. second and further given names or initials thereof

Middle name of the physician.

7.5. suffix (e.g., JR or III)

Name suffix, like SR

7.6. prefix (e.g., DR)

Name prefix, like Dr

7.9. assigning authority

Assigning Authority of attending physician code.

7.9.1. namespace ID

Identifier of the Assigning Authority that issued the attending physician code.

8. Referring Doctor

Referring physician information (see detailed component description in PV1-7)

8.9. assigning authority

Assigning Authority of referring physician code.

8.9.1. namespace ID

Identifier of the Assigning Authority that issued the referring physician code.

15. Ambulatory Status

16. VIP Indicator

17. Admitting Doctor

Admitting physician information (see detailed component description in PV1-7)

17.9. assigning authority

Assigning Authority of admitting physician code.

17.9.1. namespace ID

Identifier of the Assigning Authority that issued the admitting physician code.

18. Patient Type

44.1. Date/Time

YYYYMMDD[HHMM[SS[.SSSS]]][+-ZZZZ]

45. Discharge Date/Time

45.1. Date/Time

YYYYMMDD[HHMM[SS[.SSSS]]][+-ZZZZ]

End of segment group VISIT

End of segment group PATIENT

Segment group: ORDER OBSERVATION

- Usage: Required
- Cardinality:1..*

ORC

- Usage: Optional
- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Order Control	R	1..1	ID	HL70119	
2	Placer Order Number	R	1..1	EI		
2.1	entity identifier	R	1..1	ST		
2.2	namespace ID	O	0..	IS	HL70363	
3	Filler Order Number	R	1..1	EI		
3.1	entity identifier	R	1..1	ST		
3.2	namespace ID	O	0..	IS	HL70363	
5	Order Status	O	0..1	ID	HL70038	
7	Quantity/Timing	O	0..*	TQ		
7.4	start date/time	O	0..	TS		
7.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
7.5	end date/time	O	0..	TS		
7.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
7.6	priority	O	0..	ST		
10	Entered By	O	0..1	XCN		
10.1	ID number (ST)	O	0..	ST		
10.2	family name	O	0..	FN		
10.2.1	surname	O	0..	ST		
10.2.2	own surname prefix	O	0..	ST		
10.2.3	own surname	O	0..	ST		
10.3	given name	O	0..	ST		
10.4	second and further given names or initials thereof	O	0..	ST		
10.5	suffix (e.g., JR or III)	O	0..	ST		
10.6	prefix (e.g., DR)	O	0..	ST		
10.9	assigning authority	O	0..	HD		
10.9.1	namespace ID	O	0..	IS	HL70363	
12	Ordering Provider	O	0..1	XCN		
12.1	ID number (ST)	C	0..	ST		
12.2	family name	O	0..	FN		
12.2.1	surname	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
12.3	given name	O	0..	ST		
12.9	assigning authority	O	0..	HD		
12.9.1	namespace ID	O	0..	IS	HL70363	
12.9.2	universal ID	O	0..	ST		
17	Entering Organization	O	0..1	CE		
17.1	identifier	R	1..1	ST		
17.2	text	O	0..	ST		
17.3	name of coding system	O	0..	IS	HL70396	
21	Ordering Facility Name	O	0..*	XON		
21.1	organization name	O	0..	ST		
21.2	organization name type code	O	0..	IS	HL70204	
21.3	ID number (NM)	R	1..1	NM		
21.4	check digit	O	0..	NM		
21.5	code identifying the check digit scheme employed	O	0..	ID	HL70061	
21.6	assigning authority	O	0..	HD		
21.6.1	namespace ID	R	1..1	IS	HL70363	
21.7	identifier type code (IS)	O	0..	IS		
21.8	assigning facility ID	O	0..	HD	HL70300	
21.8.1	namespace ID	O	0..	IS	HL70363	
21.8.2	universal ID	O	0..	ST		
21.8.3	universal ID type	O	0..	ID	HL70301	
21.9	Name Representation code	O	0..	ID	HL70465	

1. Order Control

Fixed value: SC (Status changed)

2. Placer Order Number

2.2. namespace ID

Identifier of the Assigning Authority that issued the placer order number.

3. Filler Order Number

3.2. namespace ID

Identifier of the Assigning Authority that issued the filler order number.

5. Order Status

Supported: IP (In Progress), CM (Completed), DC (Discontinued), CA (Cancelled), SC (Scheduled)

7. Quantity/Timing

Identical to the Quantity/Timing in OBR-Segment

7.4. start date/time

Requested procedure scheduled study date/time and the scheduled procedure step start date/time.

7.4.1. Date/Time

If EI is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

7.5.1. Date/Time

If EI is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

7.6. priority

1) For existing sites (migration)

STAT priority code: S

Urgent priority codes: A

High Priority codes: A

Normal Priority codes: R

Low priority Code: PRN

2) For new installations

STAT priority code: S

Urgent priority codes: A

High Priority code: C

Normal Priority codes: P

Routine Priority Code: R

These values are configurable

10. Entered By**12. Ordering Provider****12.1. ID number (ST)**

Code of physician providing the order.

12.9. assigning authority

Assigning Authority

12.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician code.

17. Entering Organization**17.2. text**

Name of Requesting department. If empty, the default requesting department will be taken.

17.3. name of coding system

Identifier of the Assigning Authority that issued the department identifier.

21. Ordering Facility Name

21.1. organization name

If empty, the identifier of the requesting facility will be taken as name.

21.6. assigning authority

Identifier of the Assigning Authority that issued the facility identifier.

OBR

- Usage: Required

- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - OBR	R	1..1	SI		
2	Placer Order Number	R	1..1	EI		
2.1	entity identifier	R	1..1	ST		
2.2	namespace ID	O	0..	IS	HL70363	
3	Filler Order Number	R	1..1	EI		
3.1	entity identifier	R	1..1	ST		
3.2	namespace ID	O	0..	IS	HL70363	
4	Universal Service Identifier	R	1..1	CE		
4.1	identifier	R	1..1	ST		
4.2	text	O	0..	ST		
4.3	name of coding system	O	0..	IS	HL70396	
4.4	alternate identifier	R	1..1	ST		
4.5	alternate text	O	0..	ST		
4.6	name of alternate coding system	O	0..	IS	HL70396	
5	Priority	O	0..1	ID		
6	Requested Date/Time	O	0..1	TS		
6.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
7	Observation Date/Time #	O	0..1	TS		
7.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
13	Relevant Clinical Info.	O	0..1	ST		
16	Ordering Provider	O	0..1	XCN		
16.1	ID number (ST)	O	0..	ST		
16.2	family name	O	0..	FN		
16.2.1	surname	O	0..	ST		
16.3	given name	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
16.9	assigning authority	O	0..	HD		
16.9.1	namespace ID	O	0..	IS	HL70363	
16.9.2	universal ID	O	0..	ST		
16.9.3	universal ID type	O	0..	ID	HL70301	
18	Placer Field 1	R	1..1	ST		
19	Placer Field 2	R	1..1	ST		
20	Filler Field 1 +	R	1..1	ST		
22	Results Rpt/Status Chng - Date/Time +	O	0..1	TS		
22.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
24	Diagnostic Serv Sect ID	O	0..1	ID	HL70074	
25	Result Status +	R	1..1	ID	HL70123	
27	Quantity/Timing	O	0..*	TQ		
27.3	duration	O	0..	ST		
27.4	start date/time	O	0..	TS		
27.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.5	end date/time	O	0..	TS		
27.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.6	priority	O	0..	ST		
28	Result Copies To	O	0..1	XCN		
28.1	ID number (ST)	R	1..1	ST		
28.2	family name	O	0..	FN		
28.2.1	surname	O	0..	ST		
28.3	given name	O	0..	ST		
28.9	assigning authority	O	0..	HD		
28.9.1	namespace ID	O	0..	IS	HL70363	
31	Reason for Study	O	0..2	CE		
31.1	identifier	O	0..	ST		
31.2	text	O	0..	ST		
32	Principal Result Interpreter +	O	0..1	CM_NDL		
32.1	name	O	0..	CN		
32.1.1	ID number (ST)	O	0..	ST		
32.1.2	family name	O	0..	FN		
32.1.3	given name	O	0..	ST		
32.1.4	second and further given names or initials thereof	B	..	ST		
32.1.9	assigning authority	O	0..	HD		
33	Assistant Result Interpreter +	O	0..*	CM_NDL		

Seq.	Name	Opt.	Card.	Type	Table	Contents
33.1	name	O	0..	CN		
33.1.1	ID number (ST)	O	0..	ST		
33.1.2	family name	O	0..	FN		
33.1.3	given name	O	0..	ST		
33.1.9	assigning authority	O	0..	HD		
33.10	building	B	..	IS	HL70307	
35	Transcriptionist +	O	0..*	CM_NDL		
35.1	name	O	0..	CN		
35.1.1	ID number (ST)	O	0..	ST		
35.1.2	family name	O	0..	FN		
35.1.3	given name	O	0..	ST		
35.1.9	assigning authority	O	0..	HD		

1. Set ID - OBR

2. Placer Order Number

Identical to ORC-2

2.2. namespace ID

Identifier of the Assigning Authority that issued the placer order number.

3. Filler Order Number

Identical to ORC-3

3.2. namespace ID

Identifier of the Assigning Authority that issued the filler order number.

4. Universal Service Identifier

5. Priority

High priority code: A (ASAP)

Medium Priority Code: R (Routine)

Low priority Code: PRN (As needed)

6. Requested Date/Time

6.1. Date/Time

If Enterprise Imaging is configured to send timezone information, datetime format

YYYYMMDD[HHMM[SS]][+-ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

7. Observation Date/Time

Specifies Observation date/time modified and is not related to report date and time. It is

- the PPS date/time modified when images are available.

- the request date/time modified in other cases

Date/time the report version is being distributed is found in OBR.22.

Date/time the report version is created is found in OBX.14.

7.1. Date/Time

If EI is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

13. Relevant Clinical Info.

Clinical information.

16. Ordering Provider

same as ORC-12

16.1. ID number (ST)

the default identifier of the ordering provider

16.2.1. surname

Family name of the physician.

16.3. given name

Given name of the physician.

16.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician code.

18. Placer Field 1**19. Placer Field 2****20. Filler Field 1 +****22. Results Rpt/Status Chng - Date/Time +**

Date/time the report version is being distributed. For dictated report, date/time of the modification to the latest dictation.

22.1. Date/Time

If Enterprise Imaging is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

24. Diagnostic Serv Sect ID**25. Result Status +**

Supported: F (final), P (Preliminary), C (Correction), D (Deleted), I (Dictated), S (Partially validated)

27. Quantity/Timing

Identical to ORC-7

27.4.1. Date/Time

If EI is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+-ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

27.5.1. Date/Time

If Enterprise Imaging is configured to send timezone information, datetime format YYYYMMDD[HHMM[SS]][+-ZZZZ] is used else YYYYMMDD[HHMM[SS]] is used

27.6. priority

Priority code of requested procedure(configured in EI)

28. Result Copies To**28.1. ID number (ST)**

code of the physician

28.2.1. surname

family name of the physician

28.3. given name

given name of the physician

28.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician code.

31. Reason for Study**32. Principal Result Interpreter +**

The segment contains:

- the validator when the report is final
- the author when the report is preliminary
- the latest partial approver when the report is partially validated

32.1.1. ID number (ST)

The default identifier of the principal result interpreter

32.1.2. family name

Family name of the principal result interpreter.

32.1.3. given name

Given name of the principal result interpreter.

32.1.9. assigning authority

Identifier of the Assigning Authority that issued the physician code.

33. Assistant Result Interpreter +

This segment contains:

- every contributor when preliminary report

- the author (when different from validator) and every contributor when final report and partially validated report

33.1.1. ID number (ST)

the default identifier of the assistant result interpreter

33.1.2. family name

Family name of the assistant result interpreter.

33.1.3. given name

Given name of the assistant result interpreter.

33.1.9. assigning authority

Identifier of the Assigning Authority that issued the physician code.

35. Transcriptionist +**35.1.1. ID number (ST)**

the default identifier of the transcriptionist

35.1.2. family name

Family name of the transcriptionist.

35.1.3. given name

Given name of the transcriptionist.

35.1.9. assigning authority

Identifier of the Assigning Authority that issued the physician code.

NTE - Notes and Comments

- Usage: Optional

- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
3	Comment	O	0..*	FT		
4	Comment Type	O	0..1	CE	HL70364	
4.1	identifier	O	0..	ST		

3. Comment

Procedural comment

4. Comment Type**4.1. identifier**

PC = procedure comment

ZDS

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Reference Pointer	R	1..1	ST		
2	Application ID	O	0..1	ST		e.g. AGILITY
3	Type of Data	O	0..1	ST		e.g. Application
4	Subtype	O	0..1	ST		e.g. DICOM

1. Reference Pointer

Study instance UID of the study in Enterprise Imaging

2. Application ID

fixed value == AGILITY

3. Type of Data

fixed value == Application

4. Subtype

fixed value == DICOM

DG1 - Diagnosis

- Usage: Optional
- Cardinality:0..*

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - DG1	R	1..1	SI		
3	Diagnosis Code - DG1	R	1..1	CE	HL70051	
3.1	identifier	R	1..1	ST		
3.2	text	R	1..1	ST		
3.3	name of coding system	R	1..1	IS	HL70396	
3.4	alternate identifier	R	1..1	ST		
5	Diagnosis Date/Time	R	1..1	TS		
5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
6	Diagnosis Type	R	1..1	IS	HL70052	

1. Set ID - DG1

A counter, starting from 1, indicating the occurrence of the segment within the message

3. Diagnosis Code - DG1

3.1. identifier

Diagnostic code

3.2. text

Description of diagnostic code

3.3. name of coding system

Catalogue of diagnostic code

3.4. alternate identifier

Accession number of the study in the message where this diagnostic code belongs to.

5. Diagnosis Date/Time

5.1. Date/Time

Date/time when the diagnosis was determined

6. Diagnosis Type

F, since the diagnosis is final.

Segment group: OBSERVATION

- Usage: Required
- Cardinality: 1..*
- Implementation note: Segment that repeats for section in the report and addenda

OBX - Observation/Result

- Usage: Required
- Cardinality: 1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - OBX	O	0..1	SI		
2	Value Type	O	0..1	ID	HL70125	e.g. ED
3	Observation Identifier	R	1..1	CE		
3.1	identifier	R	1..1	ST		
3.2	text	O	0..	ST		
3.3	name of coding system	O	0..	IS	HL70396	
3.4	alternate identifier	O	0..	ST		
4	Observation Sub-Id	R	1..1	ST		
5	Observation Value	O	0..1	ED		
5.1	source application	R	1..1	HD		
5.1.1	namespace ID	R	1..1	IS		e.g. AGILITY
5.2	type of data	R	1..1	ID	HL70191	e.g. TEXT
5.3	data subtype	R	1..1	ID	HL70291	e.g. RTF
5.4	encoding	R	1..1	ID	HL70299	e.g. A
5.5	data	R	1..1	ST		
11	Observation Result Status	R	1..1	ID	HL70085	e.g. F

Seq.	Name	Opt.	Card.	Type	Table	Contents
14	Date/Time of the Observation	O	0..1	TS		
14.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
16	Responsible Observer	O	0..1	XCN		
16.1	ID number (ST)	O	0..	ST		
16.2	family name	O	0..	FN		
16.2.1	surname	O	0..	ST		
16.3	given name	O	0..	ST		
16.9	assigning authority	O	0..	HD		
16.9.1	namespace ID	O	0..	IS	HL70363	

1. Set ID - OBX

The sequence number

2. Value Type

Encapsulated Data (ED) for report content Reference Pointer (RP) for attachments

Text (TX) for Pregnancy information

3. Observation Identifier

The OBX contents can describe

- report contents
- an attachment definition
- pregnancy information

Values of the fields depend on the contents the segment describes.

3.1. identifier

Segment for report content :

- The procedure definition code followed by either &ADT for addenda of the report and &GDT for every other type of report

Segment for attachment description :

- Attachment code

Segment for pregnancy information :

- PREGNANT

3.2. text

Segment for report content :

- The name of the procedure definition

Segment for attachment description :

- Attachment name

Segment for pregnancy information :

- PREGNANCY INDICATOR

3.3. name of coding system

fixed value == AGILITY

3.4. alternate identifier

Segment for report content :

- fill with report ID that stays unchanged over the complete reporting life cycle.

Segment for attachment description :

- in case of study/PPS level attachment this field holds the accession number of the study the attachment refers to

- in case of order/patient/report level attachment this field is empty

Segment for pregnancy information :

- accession number of the study the attachment refers to

4. Observation Sub-Id

Segment for report content :

- for main report data, section name of the report

- for addenda, section name of the addenda+"_suffix"(suffix is the index of addenda starting from 1)

Segment for attachment description :

- unique key identifying a specific attachment (primary key of attachment)

Segment for pregnancy information :

- unique key identifying the primary key of this pregnancy attachment

5. Observation Value

Contents depending on Value type of the OBX. Segment for report content :

- FT : plain text

- RP : path + filename

- ED : AGILITY^TEXT^RTF^A^the rtf content of the section

Segment for attachment description :

- path + file name for PDF/image type attachments with reference pointer

- TEXT^PDF^Base64^the Base64 encoded data of the attachment for PDF type attachments as Base64 encoded encapsulated data

- IM^type of the image*^Base64^the Base64 encoded data of the attachment for image type attachments as Base64 encoded encapsulated data

- the actual attachment text for text attachments

- the actual keyword value for keyword attachments

*supported image types: JPEG, TIFF, GIF, PNG, BMP

General remark : For each attachment type configured in UCT as "Include in HL7 outbound communication" an OBX segment will be sent. Its contents is "" in case the study has no attachment for this attachment type.

Segment for pregnancy information :

- YES
- NO
- UNKNOWN

5.1.1. namespace ID

fixed value = AGILITY

5.2. type of data

fixed value = TEXT

5.3. data subtype

fixed value = RTF

5.4. encoding

fixed value = A

5.5. data

the rtf content of the section

11. Observation Result Status

Supported: F (final), P (Preliminary), C (Correction), D (Deleted), I (Dictated), S (Partially validated)

14. Date/Time of the Observation

The date of the observation When segment contains pregnancy information, OBX.14 holds date of last menstrual period (when available).

14.1. Date/Time

If Enterprise Imaging is configured to send timezone information, datetime format YYYYMMDD[HHHMM[SS]][+/-ZZZZ] is used else YYYYMMDD[HHHMM[SS]] is used

16. Responsible Observer

This segment contains:

In case the OBX-segment contains report content:

- the author when the report is preliminary
- the validator when the report is final
- the latest partial approver when the report is partially validated

In case the OBX-segment contains addendum content:

- the author of this particular addendum content when this addendum is preliminary
- the validator of this particular addendum content when this addendum is final

16.1. ID number (ST)

The default identifier of the responsible observer

End of segment group OBSERVATION

End of segment group ORDER_OBSERVATION

End of segment group PATIENT_RESULT