



Technical HL7 Conformance Profile

ENTERPRISE IMAGING

INBOUND ORU_R01

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Publication date:

1-2019

Publication number:

V1.0 (technical)

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Message Profile

Conformance parameters

Message Profile

- HL7 Version: 2.3, 2.3.1, 2.4, 2.5
- Profile Type: HL7
- Topics: confsig-Agfa Healthcare-2.3, 2.3.1, 2.4, 2.5-profile-accNE_accAL-Deferred

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
- Topics: confsig-Agfa Healthcare-2.3, 2.3.1, 2.4, 2.5-static-ORU-R01-null-ORU_R01-V1.0-DRAFT-Receiver

Message structure

MSH PID [[PV1]] { [ORC] OBR [ZDS] [NTE] { Only the segments of the last iteration ORDER_OBSERVATION group will be implemented. 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	O	0..1	HD	HL70361	
3.1	namespace ID	O	0..	IS	HL70363	e.g. SENDING RIS
4	Sending Facility	O	0..1	HD	HL70362	
4.1	namespace ID	O	0..	IS	HL70363	e.g. SENDING FAC
7	Date/Time Of Message	O	0..1	TS		
7.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
9	Message Type	R	1..1	CM_MSG	HL70076	
9.1	message type	R	1..1	ID	HL70076	e.g. ORU
9.2	trigger event	R	1..1	ID	HL70003	e.g. R01
9.3	message structure	O	0..	ID	HL70354	e.g. ORU_R01
10	Message Control ID	R	1..1	ST		
12	Version ID	R	1..1	VID	HL70104	
12.1	version ID	R	1..1	ID	HL70104	e.g. 2.4

3.1. namespace ID

code that identifies sending application

4.1. namespace ID

code that identifies sending facility



7. Date/Time Of Message

7.1. Date/Time

YYYYMMDD[HHMM[SS]][+ZZZ Z]

If timezone information is present, it is taken into account for all date/time fields in the message. If timezone information is present also in other datetime fields, it overrules the timezone information in this field.

9.1. message type

ORU

9.2. trigger event

R01

9.3. message structure

ORU_R01

10. Message Control ID

unique number identifying the message

12. Version ID

Highest supported version 2.5

12.1. version ID

HL7 version number

Segment group: PATIENT_RESULT

- Usage: Required
- Cardinality:1..1

Segment group: PATIENT - PATIENT_RESULT.PATIENT

- Usage: Required
- Cardinality:1..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	O	0..	HD		
3.4.1	namespace ID	O	0..	IS	HL70363	
3.5	identifier type code (ID)	O	0..	ID	HL70203	
3.6	assigning facility	O	0..	HD		



Seq.	Name	Opt.	Card.	Type	Table	Contents
3.6.1	namespace ID	O	0..	IS	HL70363	
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		
5.1.3	own surname	O	0..	ST		
5.2	given name	O	0..	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	O	0..	NM		
8	Administrative Sex	O	0..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	HL70399	
11.7	address type	O	0..	ID	HL70190	
11.8	other geographic designation	O	0..	ST		
11.9	county/parish code	O	0..	IS	HL70289	
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..1	XTN		
13.1	Telephone number	O	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		



Seq.	Name	Opt.	Card.	Type	Table	Contents
14	Phone Number - Business	O	0..1	XTN		
14.1	Telephone Number	O	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		
23	Birth Place	O	0..1	ST		
29	Patient Death Date and Time	C	0..1	TS		
29.1	Date/Time	O	0..	NM		
30	Patient Death Indicator	O	0..1	ID	HL70136	

3. Patient Identifier List

3.1. ID

Identification number or code for the patient.

3.4.1. namespace ID

Identifier of the Assigning Authority that issued the patient id.

If not available the default patient assigning authority for the system will be used.

3.5. identifier type code (ID)

Supported values:

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

If empty PI will be used by default

5. Patient Name

5.1.1. surname

Patient's lastname

5.1.2. own surname prefix

For alphabetic name / maiden name, if PID.5.1.1 is empty, PID.5.1.2 and PID.5.1.3 are concatenated as last name.

5.1.3. own surname

For alphabetic name / maiden name, if PID.5.1.1 is empty, PID.5.1.2 and PID.5.1.3 are concatenated as last name.

5.2. given name

Patient's firstname

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

Patient's suffix



5.5. prefix (e.g., DR)

Patient's prefix

5.7. name type code

M = maiden name, only support storing last name for maiden name.

5.8. Name Representation code

Supported are :

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

7. Date/Time Of Birth

7.1. Date/Time

format YYYYMMDDHHMMSS

8. Administrative Sex

11. Patient Address

11.1. street address (SAD)

This component specifies the street or mailing address of a person or institution.

11.1.1. street or mailing address

This is used when SAD-2 (Street Name) is empty

11.1.2. street name

Name of the street.

11.1.3. dwelling number

House number.

11.3. city

Municipality code of the city.

If field is empty, the city will be listed as 'Unknown' (code UKW).

11.4. state or province

Is always the highest region level, but there can be a lower subdividing region level for a state or province.

11.5. zip or postal code

Zip or postal code of the city.

11.6. country

A 3-digit code defining the county.

This is necessary in EI for the address segment to be processed.

It defaults to UKW (Unknown country) when left empty.



11.7. address type

O (office), H (home address) are supported.

L (Legal Address) defaults to office and the rest defaults to H (home address)

13. Phone Number - Home

Segment is used for all home communication.

First one is the primary home communication channel.

13.1. Telephone number

In case of telephone number/fax number/cellular number, the phone number is put in this field
[(999)] 999-9999 [X99999][C any text]

13.2. telecommunication use code

Required. If this is empty the communication cannot be registered.

Supported are:

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

13.3. telecommunication equipment type (ID)

Required. If this is empty the communication cannot be registered.

Supported are:

- Telephone (PH)
- Fax (FX)
- Cellular Phone (CP)
- Internet Address (Internet)

13.4. Email address

In case of Network Email Address, this needs to be filled in.

14. Phone Number - Business

Segment is used for all business communication.

First one is the primary business channel.

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

Required. If this is empty the communication cannot be registered.

Supported are:

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



14.3. telecommunication equipment type (ID)

Required. If this is empty the communication cannot be registered.

Supported are:

- Telephone (PH)
- Fax (FX)
- Cellular Phone(CP)
- Internet Address (Internet)

14.4. Email address

In case of Network Email Address, this needs to be filled in.

19. SSN Number - Patient

23. Birth Place

29. Patient Death Date and Time

YYYYMMDDHHMMSS or ""

Condition Predicate:

If PID.30 has a value, this field also needs a value.

29.1. Date/Time

YYYYMMDD[HHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information available in MSH-7

30. Patient Death Indicator

Y or N

Segment group: VISIT

- Usage: Optional
- Cardinality:0..1

PV1 - Patient visit

- Usage: Optional
- Cardinality:0..1
- Implementation note: The Admission will be created, depending on the value of ORU Inbound pipeline property "Create admission for un- existing orders". Existing Admissions will never be updated when sending ORU messages.

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	e.g. Cardio department
3.2	room	O	0..	IS	HL70303	e.g. room 124
3.3	bed	O	0..	IS	HL70304	e.g. bed 3



Seq.	Name	Opt.	Card.	Type	Table	Contents
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..1	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		
7.9	assigning authority	O	0..	HD		
7.9.1	namespace ID	O	0..	IS	HL70363	
8	Referring Doctor	O	0..1	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		
8.9	assigning authority	O	0..	HD		
8.9.1	namespace ID	O	0..	IS	HL70363	
15	Ambulatory Status	O	0..1	IS	HL70009	
16	VIP Indicator	O	0..1	IS	HL70099	
17	Admitting Doctor	O	0..1	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		
17.9	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	O	0..1	CX		
19.1	ID	O	0..	ST		
19.4	assigning authority	O	0..	HD		
19.4.1	namespace ID	O	0..	IS	HL70363	
19.4.2	universal ID	O	0..	ST		
19.4.3	universal ID type	O	0..	ID	HL70301	
44	Admit Date/Time	O	0..1	TS		
44.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
45	Discharge Date/Time	O	0..1	TS		
45.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600



2. Patient Class

Patient Class.

3.1. point of care

Patient's location department code.

When an unexisting department code is used, the department will be autocreated.

3.2. room

Room in the department

3.3. bed

Bed in the room

3.4.1. namespace ID

Partient's location facility code.

When an unexisting facility code is used, the facility will be autocreated.

4. Admission Type

Type of admission, the circumstances under which the patient was or will be admitted.

7. Attending Doctor

Attending physician information.

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

7.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician id

8. Referring Doctor

Refering physician information.

8.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician id

15. Ambulatory Status

Code indicating any permanent or transient handicapped conditions.

16. VIP Indicator

This field identifies the type of VIP.

- 1, set VIP or personnel as yes

- 0, set as no



17. Admitting Doctor

Admitting physician information.

17.9. assigning authority

* Identifier of the Assigning Authority that issued the patient id

17.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician id

18. Patient Type

Site-specific values that identify the patient type.

19. Visit Number

19.1. ID

Unique number identifying the admission.

44. Admit Date/Time

44.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present it overrides the timezone information if available in MSH-7

45. Discharge Date/Time

45.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present it overrides the timezone information if available in MSH-7

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

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Order Control	R	1..1	ID	HL70119	
2	Placer Order Number	O	0..1	EI		
2.1	entity identifier	R	1..1	ST		
2.2	namespace ID	O	0..	IS	HL70363	



Seq.	Name	Opt.	Card.	Type	Table	Contents
3	Filler Order Number	O	0..1	EI		
3.1	entity identifier	R	1..1	ST		
3.2	namespace ID	O	0..	IS	HL70363	
5	Order Status	R	1..1	ID	HL70038	
7	Quantity/Timing	O	0..*	TQ		
7.4	start date/time	O	0..	TS		
7.4.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
7.5	end date/time	O	0..	TS		
7.5.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
7.6	priority	O	0..	ST		
9	Date/Time of Transaction	O	0..1	TS		
9.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
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		
10.3	given name	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)	R	1..1	ST		
12.2	family name	R	1..1	FN		
12.2.1	surname	R	1..1	ST		
12.3	given name	O	0..	ST		
12.4	second and further given names or initials thereof	O	0..	ST		
12.5	suffix (e.g., JR or III)	O	0..	ST		
12.6	prefix (e.g., DR)	O	0..	ST		
12.9	assigning authority	O	0..	HD		
12.9.1	namespace ID	O	0..	IS	HL70363	
15	Order Effective Date/Time	O	0..1	TS		
15.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
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		



Seq.	Name	Opt.	Card.	Type	Table	Contents
21.1	organization name	O	0..	ST		
21.3	ID number (NM)	R	1..1	NM		
21.6	assigning authority	R	1..1	HD		
21.6.1	namespace ID	R	1..1	IS	HL70363	

1. Order Control

Fixed value: SC (Status changed)

2.1. entity identifier

Unique identifier for the order, defined by the order placer

2.2. namespace ID

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

If empty, the default assigning authority will be taken.

3. Filler Order Number

3.1. entity identifier

Unique identifier for the order, defined by the order filler

3.2. namespace ID

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

If empty, the default assigning authority will be taken.

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.

If values provided in these fields differ, EI will consider value provided in OBR-27.

7.4.1. Date/Time

YYYYMMDD[HHHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

7.5.1. Date/Time

YYYYMMDD[HHHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

7.6. priority

1) For existing sites (migration)

- High Priority codes: A, T

- Normal Priority codes: S, Unknown*

- Low Priority Codes: C, P, R

2) For new installations



- STAT priority code: S
- Urgent priority codes: A, T
- High Priority code: C
- Normal Priority codes: P, Unknown*
- Routine Priority Code: R

These values are configurable.

* A value for which no mapping is applicable.

9. Date/Time of Transaction

Fall back for ORC.15 being empty.

Used as order creation date/time.

When empty, the Date/Time of processing the message is taken

9.1. Date/Time

YYYYMMDD[HHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

10. Entered By

12. Ordering Provider

Requesting Physician. If this is not filled in OBR-16 is processed instead.

12.1. ID number (ST)

Unique code identifying the requesting physician

12.2.1. surname

String that represents Ordering Provider Lastname.

12.3. given name

String that represents Ordering Provider Given name.

12.4. second and further given names or initials thereof

String that represents Ordering Provider Middle name.

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

String that represents Ordering Provider suffix.

12.6. prefix (e.g., DR)

String that represents Ordering Provider prefix.

12.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician id

15. Order Effective Date/Time

Fall back for OBR.6 being empty.

Used as order creation date/time.

When empty, ORC.9 is taken.

**15.1. Date/Time**

YYYYMMDD[HHMM[SS[.SSSS]]][+-ZZZ Z]

17. Entering Organization

Requesting department.

17.1. identifier

Code of the department

17.2. text

Name of the department.

If empty, the identifier will be taken as name.

17.3. name of coding system

Identifier of the Assigning Authority that issued the department id

If empty, the default system assigning authority will be taken

21. Ordering Facility Name

Requesting hospital

21.1. organization name

Name of the hospital.

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

21.3. ID number (NM)

Identifier of the hospital

21.6.1. namespace ID

Identifier of the Assigning Authority that issued the hospital id

If empty, the default system assigning authority will be taken

OBR

- Usage: Required

- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - OBR	O	0..1	SI		e.g. 1
2	Placer Order Number	O	0..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		



Seq.	Name	Opt.	Card.	Type	Table	Contents
4.2	text	O	0..	ST		
4.3	name of coding system	O	0..	IS	HL70396	
4.4	alternate identifier	O	0..	ST		
4.5	alternate text	O	0..	ST		
4.6	name of alternate coding system	O	0..	IS	HL70396	
6	Requested Date/Time	O	0..1	TS		
6.1	Date/Time	O	0..	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		
16.9	assigning authority	O	0..	HD		
16.9.1	namespace ID	O	0..	IS	HL70363	
18	Placer Field 1	R	1..1	ST		
19	Placer Field 2	O	0..1	ST		
20	Filler Field 1 +	O	0..1	ST		
22	Results Rpt/Status Chng - Date/Time +	O	0..1	TS		
22.1	Date/Time	R	1..1	NM		
24	Diagnostic Serv Sect ID	O	0..1	ID	HL70074	
25	Result Status +	O	0..1	ID	HL70123	e.g. P
27	Quantity/Timing	O	0..*	TQ		
27.4	start date/time	O	0..	TS		
27.4.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
27.5	end date/time	O	0..	TS		
27.5.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
27.6	priority	O	0..	ST		
31	Reason for Study	O	0..2	CE		
31.2	text	O	0..	ST		
32	Principal Result Interpreter +	O	0..1	CM_NDL		
32.1	name	R	1..1	CN		
32.1.1	ID number (ST)	R	1..1	ST		
32.1.2	family name	R	1..1	FN		
32.1.3	given name	R	1..1	ST		
32.1.9	assigning authority	O	0..	HD		
33	Assistant Result Interpreter +	O	0..1	CM_NDL		



Seq.	Name	Opt.	Card.	Type	Table	Contents
33.1	name	R	1..1	CN		
33.1.1	ID number (ST)	R	1..1	ST		
33.1.2	family name	R	1..1	FN		
33.1.3	given name	R	1..1	ST		
33.1.9	assigning authority	O	0..	HD		
34	Technician +	O	0..1	CM_NDL		
34.5	room	O	0..	IS	HL70303	
35	Transcriptionist +	O	0..*	CM_NDL		
35.1	name	R	1..1	CN		
35.1.1	ID number (ST)	R	1..1	ST		
35.1.2	family name	R	1..1	FN		
35.1.3	given name	O	0..	ST		
35.1.4	second and further given names or initials thereof	O	0..	ST		
35.1.5	suffix (e.g., JR or III)	O	0..	ST		
35.1.6	prefix (e.g., DR)	O	0..	ST		
35.1.9	assigning authority	O	0..	HD		
35.4	point of care (IS)	O	0..	IS		
35.5	room	O	0..	IS	HL70303	
35.6	bed	O	0..	IS	HL70304	
35.7	facility (HD)	O	0..	HD		
35.7.1	namespace ID	O	0..	IS	HL70363	
35.7.2	universal ID	O	0..	ST		
35.7.3	universal ID type	O	0..	ID	HL70301	
35.8	location status	O	0..	IS	HL70306	
35.9	person location type	O	0..	IS	HL70305	
35.10	building	O	0..	IS	HL70307	
35.11	floor	O	0..	IS	HL70308	
36	Scheduled Date/Time +	O	0..1	TS		
36.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
43	Planned Patient Transport Comment	O	0..1	CE		
43.1	identifier	O	0..	ST		
43.2	text	O	0..	ST		
43.3	name of coding system	O	0..	IS	HL70396	



1. Set ID - OBR

2. Placer Order Number

Identical to ORC-2

3. Filler Order Number

Identical to ORC-3

4. Universal Service Identifier

4.1. identifier

Code of the requested procedure definition

4.2. text

Description of the requested procedure definition

4.3. name of coding system

Code of the performing department

Any value in OBR.43 will overrule this value.

Department will be created if not existing in EI.

The combination of OBR-4.3 and the default assigning authority is used in the lookup.

4.4. alternate identifier

Code of the scheduled procedure step definition

4.5. alternate text

Description of the procedure step definition

4.6. name of alternate coding system

Coding system providing the code.

If empty use issuer of order filler number. If there is no issuer for order filler number, use the default assigning authority.

6. Requested Date/Time

Used as order creation date/time.

When empty a fall back mechanism is in place.

First check for value in ORC.15, if empty check ORC.9 .

When both are empty, the value of OBR.27.4 is taken as order creation date/time.

6.1. Date/Time

YYYYMMDD[HHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

13. Relevant Clinical Info.

16. Ordering Provider

The ordering provider should be the same as ORC-12.



If ORC-12 is filled in, this will not be processed.

16.1. ID number (ST)

Physician Identifier

16.2.1. surname

Physician lastname

16.3. given name

Physician firstname

16.9.1. namespace ID

Assigning authority of the identifier

18. Placer Field 1

Accession number of the request.

19. Placer Field 2

Requested procedure ID

20. Filler Field 1 +

Scheduled Procedure Step ID

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

Report Modification Date or Addendum Modification Date.

22.1. Date/Time

The modification date of the report

24. Diagnostic Serv Sect ID

Modality type (Used when Procedure Definition is created on the fly)

25. Result Status +

report status

Default values (property 'ORU controlled reporting workflow' is set to false)

- P preliminary report
- F signed report
- C correction to results
- D report deleted
- X no results available, order cancelled

ORU controlled reporting workflow (property 'ORU controlled reporting workflow' is set to true)

- UP unapproved preliminary report
- P approved preliminary report
- F signed report
- W wet read report
- PA preliminary addendum
- A final addendum

- D report deleted

27. Quantity/Timing

Identical to ORC-7.

If values provided in these fields differ, EI will consider value provided in OBR-27.

27.4. start date/time

Used as the requested procedure scheduled study date/time and the scheduled procedure step start date/time.

When the value is empty, the value of OBR.36 is taken as requested procedure study date/time and scheduled procedure step start date/time.

When the value is empty, the value of OBR.36 is taken as requested procedure study date/time and scheduled procedure step start date/time.

27.4.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

27.5. end date/time

Used as scheduled procedure step end date/time.

27.5.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

27.6. priority

1) For existing sites (migration)

- High Priority codes: A, T

- Normal Priority codes: S, Unknown*

- Low Priority Codes: C, P, R

2) For new installations

- STAT priority code: S

- Urgent priority codes: A, T

- High Priority code: C

- Normal Priority codes: P, Unknown*

- Routine Priority Code: R

These values are configurable.

* A value for which no mapping is applicable.

31. Reason for Study

31.2. text

Text containing reason for study.

32. Principal Result Interpreter +

1) Default behaviour (property 'ORU controlled reporting workflow' is set to false)
final report :



- Physician that validated the report
 - if first iteration of OBR-33 is empty, this physician will also be handled as author of the report.
- preliminary report:
- physician will be handled as author of the report

2) ORU controlled reporting workflow (property 'ORU controlled reporting workflow' is set to true)
 The physician specified in this field, will always be the attending physician which will get assigned to the signoff task in case the report is preliminary.
 If no entry is specified, the first physician in OBR.33 will get the task assigned.

33. Assistant Result Interpreter +

- 1) Default behaviour (property 'ORU controlled reporting workflow' is set to false)
 final report:
- the first iteration will be handled as the author of the report.
 - All the other iterations are reviewers.
- preliminary report-
- all the iterations are handled as reviewers.

2) ORU controlled reporting workflow (property 'ORU controlled reporting workflow' is set to true)
 - The physician specified in the first field, will always be the author of the report. If no entry is specified in OBR.32, the first physician in OBR.33 is assigned the created signoff task in case the report is preliminary.
 - All the other iterations are reviewers.

34. Technician +

Only room is supported.

34.5. room

Acquisition room.

35. Transcriptionist +

Transcriptionist of the report.

36. Scheduled Date/Time +

Used for requested procedure scheduled study date/time and scheduled procedure step date/time when OBR.27.4 is empty.

36.1. Date/Time

YYYYMMDD[HHMM[SS]][+-ZZZ Z]

If timezone information is present it overrides the timezone information if available in MSH-7

43. Planned Patient Transport Comment

This field can be used to provide performing department.

When the performing department code provided in OBR-43.1 (with or without an issuer in OBR-43.3) is not found in the system, it will be created. When no name is present, the department code is used as the department name.



Another way to provide the performing department is by means of OBR-4.3 (universal service identifier) . If present the value will be used in combination with the default assigning authority in the lookup.

43.1. identifier

performing department code

43.2. text

performing department name

43.3. name of coding system

issuer of performing department code

ZDS

- Usage: Optional

- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Reference Pointer	O	0..1	ST		

1. Reference Pointer

An instance UID used by EI to identify the study.

NTE - Notes and Comments

- Usage: Optional

- Cardinality:0..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - NTE	R	1..1	SI		
3	Comment	O	0..*	FT		
4	Comment Type	R	1..1	CE	HL70364	
4.1	identifier	R	1..1	ST		

1. Set ID - NTE

Identifier

3. Comment

Plain text of Clinical info (Comment type CI) or Procedure comment(Comment type PC)

4. Comment Type

4.1. identifier

Supported values: CI (clinical info), PC (procedure comment)



Segment group: OBSERVATION

- Usage: Required
- Cardinality:1..*
- Implementation note: Only the segments of the last iteration ORDER_OBSERVATION group will be implemented.

OBX - Observation/Result

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - OBX	R	1..1	SI		
2	Value Type	R	1..1	ID	HL70125	e.g. FT
3	Observation Identifier	R	1..1	CE		
3.1	identifier	R	1..1	ST		
3.2	text	O	0..	ST		e.g. RX OF HEAD
3.4	alternate identifier	O	0..	ST		e.g. ACC145278
4	Observation Sub-Id	O	0..1	ST		e.g. conclusion
5	Observation Value	R	1..1	VARIES		
11	Observation Result Status	R	1..1	ID	HL70085	
14	Date/Time of the Observation	O	0..1	TS		
14.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600

1. Set ID - OBX

<DataType=SQ>

2. Value Type

In case of reports:

- FT
- RP (For reports send as PDF with reference pointer)
- ED (For reports send as Base64 encoded data)

In case of attachments:

- TX (For Text attachment type)
- RP (For PDF/Image attachment type)

3.1. identifier

In case of reports:

- This field should contain &GDT for specifying general report.
- It should contain &ADT for specifying addendum report.
- When report type is FT (obx.2) only 1 OBX segment with general report is allowed and multiple addendum OBX are allowed.
- When report type is RP or ED (obx.2) only 1 OBX segment is allowed. The OBX should specify a general report. When addendum is present, it is supposed to be included in the general report.



In case of attachments:

- Must correspond with an attachment code as defined in the administrator desktop.
- The following attachment codes are already delivered in dedicated HL7 fields and therefore should not be processed as attachments in OBX-segments:
 - REASONFORSTUDY (OBR(31))
 - PROCEDURECOMMENT (NTE(3))
 - CLINICALINFO (OBR(13) or NTE(3))

Remark

If the attachment code is not setup as a '_Study level', '_Order level' or '_Report level'-attachment in the Administrator Desktop, the attachment will not be processed. The reception of multiple attachments with the same attachment code OBX(3.1) is supported:

- PDF/Image type attachments: when multiple attachments with the same attachment code are present, a new document/image is added per attachment
- Single value Text attachment: when multiple attachments with the same attachment code are present, the text from all these attachments is concatenated. A newline character is used to separate the texts from the different attachments.
- Message board Text attachment: when multiple attachments with the same attachment code are present, a separate text item is added to the message board per attachment.

3.2. text

name identifying the observation

3.4. alternate identifier

Used in case of attachments : Should contain the accession number where the attachment belongs to (in case of study level attachment) or empty (In case of order/report level attachment)

When no accession number is passed in this component, the requested procedure/study level attachments are to be added to all requested procedures this report is linked to.

Example

An ORU message is sent containing two requested procedures belonging to the same service request and it contains two OBX-segments with attachments:

- one attachment with code STDAT20 is a '_Study-level' attachment for requested procedure with accession number ACC123
- the other attachment with code SCANNEDREQUEST is an '_Order-level' attachment which applies to both requested procedures

OBX|1|RP|STDAT20^^^ACC123||\ \attachmentserver\foldername \attachmentfilename1.pdf||

OBX|2|RP|SCANNEDREQUEST||\ \attachmentserver\foldername \attachmentfilename2.pdf||

Attachment with code STDAT20 is linked to requested procedure with accession number ACC123 and attachment with code SCANNEDREQUEST is linked to the service request.

4. Observation Sub-Id

sub identifier for this observation



5. Observation Value

Supported value(s):

In case of reports:

- plain text(OBX.2=FT)
- path + file name (in case of report send as PDF with reference pointer (OBX.2=RP))
- ^TEXT^PDF^BASE64^base64-encoded string of binary PDF data (OBX.2=ED)

In case of attachments:

- plain text (in case of Text attachment type)
- path + file name (in case of PDF/Image attachment type)
- "" (delete all attachments with code present in OBX(3.1))

If empty, this OBX segment will not be processed.

11. Observation Result Status

Only required when ORU controlled reporting workflow is set to False (disabled).

If value is not present a fall back is done to OBR-25.

supported values:

- F (final results)
- P (preliminary)
- C (correction)
- X (report body no longer found - overwrite) Report gets final status.
- D (deleted)

14. Date/Time of the Observation

The creation date of the report

14.1. Date/Time

YYYYMMDD[HHMM[SS]][+/-ZZZ Z]

If timezone information is present it overrules the timezone information if available in MSH-7

If no date time is filled in, the report will be saved with the datetime of saving/updating.

End of segment group OBSERVATION

End of segment group ORDER_OBSERVATION

End of segment group PATIENT_RESULT