

Technical HL7 Conformance Profile
**ENTERPRISE IMAGING
INBOUND ORU_R01
HEARTSTATION**

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Message Profile

Conformance parameters

Message Profile

- HL7 Version: 2.3, 2.3.1, 2.4, 2.5
- 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 { 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	R	1..1	IS	HL70363	
4	Sending Facility	O	0..1	HD	HL70362	
4.1	namespace ID	R	1..1	IS	HL70363	
4.2	universal ID	O	0..	ST		
4.3	universal ID type	O	0..	ID	HL70301	
5	Receiving Application	O	0..1	HD	HL70361	
5.1	namespace ID	R	1..1	IS	HL70363	
5.2	universal ID	O	0..	ST		
5.3	universal ID type	O	0..	ID	HL70301	
6	Receiving Facility	O	0..1	HD	HL70362	
6.1	namespace ID	R	1..1	IS	HL70363	
7	Date/Time Of Message	O	0..1	TS		
7.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
9	Message Type	R	1..1	CM_MSC	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	

Seq.	Name	Opt.	Card.	Type	Table	Contents
12.1	version ID	R	1..1	ID	HL70104	e.g. 2.4
18	Character Set	O	0..1	ID	HL70211	

1. Field Separator

2. Encoding Characters

3. Sending Application

4. Sending Facility

5. Receiving Application

6. Receiving Facility

7. Date/Time Of Message

7.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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. Message Type

10. Message Control ID

12. Version ID

Supported versions: 2.3 - 2.3.1 - 2.4 - 2.5.

18. Character Set

Segment group: PATIENT RESULT

- Usage: Required
- Cardinality:1..1

Segment group: 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		

Seq.	Name	Opt.	Card.	Type	Table	Contents
3.4	assigning authority	O	0..	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)	O	0..	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		
5.1.3	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	R	1..1	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	
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	

Seq.	Name	Opt.	Card.	Type	Table	Contents
13.4	Email address	O	0..	ST		
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	R	1..1	NM		e.g. 20040328134602+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. Either only Namespace is specified, or only Universal ID and Universal ID Type are specified, or all three components are specified.

The combination of "Namespace ID" - "Universal ID" - "Universal ID Type" must be unique in EI! Though the component is not required, it is strongly advised to provide a value.

3.4.1. namespace ID

Identifier of the Assigning Authority that issued the patient id
If not available a unique internal assigning authority will be used

3.4.2. universal ID

Universal Entity ID.

This ID must be unique in EI and must be in the correct format, i.e. containing only digits and dots. Its total length <= 64 characters!

3.4.3. universal ID type

Universal Entity ID Type.

Only supported value :

-ISO

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. family name**

When "Name representation code" = alphabetic or "Name type code" indicates maiden name is specified, following rule applies:

if Surname (PID.5.1.1) is empty, Own Surname Prefix (PID.5.1.2) and Own Surname (PID.5.1.3) are concatenated as last name.

5.1.1. surname

Patient's lastname

5.2. given name

Patient's firstname

5.3. second and further given names or initials thereof

Patient Middle Name

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 or empty = Alphabetic
- I = Ideographic
- P = Phonetic

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

format YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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

communication_channel.Street (if PID-11.1.2 is empty)

11.1.2. street name

communication_channel.Street

11.1.3. dwelling number

communication_channel.Streetnr

11.2. other designation

communication_channel.Address_Line1

11.3. city

municipality.name (if empty: Unknown is used)

11.4. state or province

communication_channel.Address_Line3

11.5. zip or postal code

municipality.zip (if empty: code UKW is used - mapping to name = Unknown)

11.6. country

communication_channel.country (3-digit code, if empty: code UKW - mapping to name = Unknown)

11.7. address type

communication_channel.communication_type (H - for home address / O - for office address / L maps to O / other codes map to H)

11.8. other geographic designation

communication_channel.Address_Line2

11.9. county/parish code

communication_channel.Address_Line4

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

First one is the primary home business channel

14.1. 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]

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

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ] or ""

Condition Predicate:

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

29.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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

30. Patient Death Indicator

Y or N

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)	R	1..1	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	R	1..1	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 of physician code.

4.9.1. namespace ID

Identifier of the Assigning Authority that issued the physicians code. If empty, the default assigning authority will be taken.

Segment group: VISIT

- Usage: Required
- Cardinality:1..1

PV1 - Patient visit

- Usage: Optional
- Cardinality:0..1
- Implementation note: 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
2	Patient Class	R	1..1	IS	HL70004	

2. Patient Class

Patient Class

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	R	1..1	IS	HL70363	
3	Filler Order Number	O	0..1	EI		
3.1	entity identifier	R	1..1	ST		
3.2	namespace ID	R	1..1	IS	HL70363	

Seq.	Name	Opt.	Card.	Type	Table	Contents
5	Order Status	R	1..1	ID	HL70038	
7	Quantity/Timing	O	0..*	TQ		
7.4	start date/time	O	0..1	TS		
7.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
7.5	end date/time	O	0..1	TS		
7.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
7.6	priority	O	0..1	ST		
9	Date/Time of Transaction	O	0..1	TS		
9.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
10	Entered By	O	0..1	XCN		
10.1	ID number (ST)	R	1..1	ST		
10.2	family name	O	0..	FN		
10.2.1	surname	O	0..	ST		
10.3	given name	O	0..	ST		
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		
15	Order Effective Date/Time	O	0..1	TS		
15.1	Date/Time	R	1..1	NM		e.g. 20040328134602+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		
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	R	1..1	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	R	1..1	IS	HL70363	

Seq.	Name	Opt.	Card.	Type	Table	Contents
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

3. Filler Order Number

This field holds accession number (order level) or filler order number.

It is not required.

If an order already exists, the report is matched against the order with "patient" and "accession number"

If no order exists, an ORU without ORC-3 will CREATE an order without an "accession number (order level)".

3.2. namespace ID

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 (OBR-27).

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

7.4.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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

7.5.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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[HH[MM[SS]]][+/-ZZZZ]

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

10. Entered By

12. Ordering Provider

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

12.2.1. surname

String that represents Ordering Provider Lastname.

12.3. given name

String that represents Ordering Provider Given name.

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[HH[MM[SS]]][+/-ZZZZ]

17. Entering Organization

17.1. identifier

Code of the department.

17.2. text

If empty, the identifier will be taken as name.

17.3. name of coding system

If empty, the default requesting department will be taken

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

If empty, the default 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	R	1..1	EI		
2.1	entity identifier	R	1..1	ST		
2.2	namespace ID	R	1..1	IS	HL70363	
2.3	universal ID	O	0..	ST		
2.4	universal ID type	O	0..	ID	HL70301	
3	Filler Order Number	R	1..1	EI		
3.1	entity identifier	R	1..1	ST		
3.2	namespace ID	R	1..1	IS	HL70363	
3.3	universal ID	O	0..	ST		
3.4	universal ID type	O	0..	ID	HL70301	
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	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	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)	R	1..1	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	R	1..1	IS	HL70363	
16.9.2	universal ID	O	0..	ST		
16.9.3	universal ID type	O	0..	ID	HL70301	
17	Order Callback Phone Number	O	0..*	XTN		
17.1	[(999)] 999-9999 [X99999][C any text]	O	0..	TN		
17.2	telecommunication use code	O	0..	ID	HL70201	
17.3	telecommunication equipment type (ID)	O	0..	ID	HL70202	

Seq.	Name	Opt.	Card.	Type	Table	Contents
17.4	Email address	O	0..	ST		
17.5	Country Code	O	0..	NM		
17.6	Area/city code	O	0..	NM		
17.7	Phone number	O	0..	NM		
17.8	Extension	O	0..	NM		
17.9	any text	O	0..	ST		
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	
27	Quantity/Timing	O	0..*	TQ		
27.1	quantity	O	0..	CQ		
27.1.1	quantity	O	0..	NM		
27.1.2	units	O	0..	CE		
27.2	interval	O	0..	CM_RI		
27.2.1	repeat pattern	O	0..	IS	HL70335	
27.2.2	explicit time interval	O	0..	ST		
27.3	duration	O	0..	ST		
27.4	start date/time	O	0..1	TS		
27.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.5	end date/time	O	0..1	TS		
27.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.6	priority	O	0..1	ST		
27.7	condition	O	0..	ST		
27.8	text (TX)	O	0..	TX		
27.9	conjunction component	O	0..	ID	HL70472	
27.10	order sequencing	O	0..	CM_OSD		
27.10.1	sequence/results flag	O	0..	ID		
27.10.2	placer order number: entity identifier	O	0..	ST		
27.10.3	placer order number: namespace ID	O	0..	IS		
27.10.4	filler order number: entity identifier	O	0..	ST		
27.10.5	filler order number: namespace ID	O	0..	IS		
27.10.6	sequence condition value	O	0..	ID		
27.10.7	maximum number of repeats	O	0..	NM		
27.10.8	placer order number: universal ID	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
27.10.9	placer order number; universal ID type	O	0..	ID		
27.10.10	filler order number: universal ID	O	0..	ST		
27.10.11	filler order number: universal ID type	O	0..	ID		
27.11	occurrence duration	O	0..	CE		
27.11.1	identifier	R	1..1	ST		
27.11.2	text	O	0..	ST		
27.11.3	name of coding system	O	0..	IS	HL70396	
27.11.4	alternate identifier	O	0..	ST		
27.11.5	alternate text	O	0..	ST		
27.11.6	name of alternate coding system	O	0..	IS	HL70396	
27.12	total occurrences	O	0..	NM		
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	R	1..1	IS	HL70363	
31	Reason for Study	O	0..2	CE		
31.1	identifier	R	1..1	ST		
31.2	text	O	0..	ST		
31.3	name of coding system	O	0..	IS	HL70396	
31.4	alternate identifier	O	0..	ST		
31.5	alternate text	O	0..	ST		
31.6	name of alternate coding system	O	0..	IS	HL70396	
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		
33	Assistant Result Interpreter +	O	0..1	CM_NDL		
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		
34	Technician +	O	0..1	CM_NDL		
34.5	room	O	0..	IS	HL70303	

Seq.	Name	Opt.	Card.	Type	Table	Contents
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		
43	Planned Patient Transport Comment	O	0..1	CE		
43.1	identifier	R	1..1	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

4.3. name of coding system

Primary use: Issuer of Procedure Code. When empty: EI_NOAA_EXTERNAL_PROC + suffix is used.

Alternative use: Fallback for Performing Department Code when no performing department is identified in OBR-43. OBR-4.3 will be used in combination with the default assigning authority in the lookup of the performing department.

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 fallback 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[HH[MM[SS]]][+/-ZZZZ]

If timezone information is present it overrides 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.

17. Order Callback Phone Number**18. Placer Field 1**

Accession number of the request.

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

Report Modification Date or Addendum Modification Date.

24. Diagnostic Serv Sect ID

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

27. Quantity/Timing

Identical to the Quantity/Timing in ORC-Segment (ORC-7).

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

27.4.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

If timezone information is present it overrides 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[HH[MM[SS]]][+/-ZZZZ]

If timezone information is present it overrides 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.

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

assigning authority

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 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

32.1.1. ID number (ST)

Code identifying the physician.

32.1.2. family name

Family name of the physician.

32.1.3. given name

Given name of the physician.

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 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.

33.1.1. ID number (ST)

Code identifying the physician.

33.1.2. family name

Family name of the physician.

33.1.3. given name

Given name of the physician.

34. Technician +

Only room is supported.

34.5. room

Acquisition room.

35. Transcriptionist +

Transcriptionist of the report.

35.1.1. ID number (ST)

Code identifying the transcriptionist.

35.1.2. family name

Family name of the transcriptionist.

35.1.3. given name

Given name of the transcriptionist.

35.1.4. second and further given names or initials thereof

Middle name of the transcriptionist.

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

Name suffix, like SR

35.1.6. prefix (e.g., DR)

Name prefix, like Prof

35.1.9. assigning authority

Identifier of the Assigning Authority that issued the transcriptionist code.

If empty, the default assigning authority will be taken.

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.

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..3

- Implementation note: Repetition of 3 OBX segments should be provided in the message. - OBX where OBX.5 specifies Report content - OBX where OBX.5 specifies Pdf location - OBX where OBX.5 specifies a Hyperlink

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		
4	Observation Sub-Id	O	0..1	ST		
5	Observation Value	R	1..1	FT		

Seq.	Name	Opt.	Card.	Type	Table	Contents
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

Supported values:

- TX for report content or hyperlink
- RP for PDF location

3. Observation Identifier

4. Observation Sub-Id

5. Observation Value

First OBX segment will have plain text in this field. Second OBX segment holds reference pointer to a pdf file, shown in EI as study attachment. Third OBX segment holds the URL that points to the HeartStation System showing all ECGs for the relevant patient.

11. Observation Result Status

Only required when ORU controlled reporting workflow is set to False (disabled). If value is not present a fallback is done to OBR-25. supported values

- N (new)
- C (confirmed)

14. Date/Time of the Observation

The creation date of the report or message board item

The creation date (YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]) of the message board item or the date of the last menstrual period (YYYYMMDD)

14.1. Date/Time

YYYYMMDD[HH[MM[SS]]][+/-ZZZZ]

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