

Technical HL7 Conformance Profile

ENTERPRISE IMAGING

OUTBOUND ORM_O01

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Message Profile

About this Conformance

This profile describes the ORM message structure that will be sent to an HL7 receiver. This message can be used with Order Filler systems which does not support MPPS messages.

Remarks:

Segments/fields marked as:

- R (required) must be present in the message
- RE (required or empty) must be present in the message if information is available in the message
- not supported will not be present in the message, but are not processed. The same counts for fields, components, subcomponents marked as not supported.

Conformance parameters

Message Profile

- HL7 Version: 2.4
- Profile Type: Constrainable

Encoding Method

ER7

Interaction 1

Dynamic Definition

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

Static Definition

- Message Type: ORM
- Trigger Event: O01
- Message Structure: ORM_O01

Message structure

MSH PID [PD1] PV1 {[AL1]} { ORC { OBR [NTE] ZDS {[DG1]} [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		
3.1	namespace ID	R	1..1	IS		e.g. AGILITY
4	Sending Facility	R	1..1	HD		
4.1	namespace ID	R	1..1	IS		e.g. AGILITY-RIS
4.2	universal ID	O	0..	ST		
4.3	universal ID type	O	0..	ID	HL70301	
5	Receiving Application	R	1..1	HD		
5.1	namespace ID	R	1..1	IS		
6	Receiving Facility	R	1..1	HD		
6.1	namespace ID	R	1..1	IS		
6.3	universal ID type	O	0..	ID	HL70301	
7	Date/Time Of Message	R	1..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		e.g. ORM
9.2	trigger event	R	1..1	ID		e.g. 001
9.3	message structure	O	0..	ID		e.g. ORM_O01
10	Message Control ID	R	1..1	ST		
11	Processing ID	R	1..1	PT		
11.1	processing ID	R	1..1	ID	HL70103	e.g. P
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

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[HH[MM[SS]]][+/-ZZZZ] is used else YYYYMMDD[HH[MM[SS]]] is used

9. Message Type

9.1. message type

ORM

9.2. trigger event

O01

9.3. message structure

ORM_O01

10. Message Control ID

11. Processing ID

12. Version ID

HL7 version

12.1. version ID

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

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		
3.4	assigning authority	R	1..1	HD		
3.4.1	namespace ID	O	0..	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..3	XPN		
5.1	family name	R	1..1	FN		
5.1.1	surname	R	1..1	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
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		

Seq.	Name	Opt.	Card.	Type	Table	Contents
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		
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..*	TS		
29.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
30	Patient Death Indicator	O	0..*	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, uniquely 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

13. Phone Number - Home

13.1. Telephone Number

Filled in case of telephone number/fax number/cellular number.

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

Filled in case of Network Email Address.

14. Phone Number - Business

14.1. Telephone Number

Filled in case of telephone number/fax number/cellular number.

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

Filled in case of Network Email Address.

19. SSN Number - Patient

Social security number of the patient.

29. Patient Death Date and Time

29.1. Date/Time

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

30. Patient Death Indicator

Values used:

- 1 patient deseaced
- 0 patient not deseased

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.

4.2.1. surname

Physician Family Name

4.3. given name

Physician given name.

4.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician code.

Segment group: PATIENT.PATIENT VISIT - PATIENT.PATIENT.PATIENT VISIT

- Usage: Required
- Cardinality:1..1

PV1 - Patient visit

- Usage: Required
- Cardinality:1..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		

Seq.	Name	Opt.	Card.	Type	Table	Contents
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..	NM		
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..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		
8.4	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..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		
17.4	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	

Seq.	Name	Opt.	Card.	Type	Table	Contents
19	Visit Number	O	0..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	NM		
44.1	Date/Time	O	0..	NM		e.g. 20040328134602.1234+0600
45	Discharge Date/Time	O	0..1	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

19. Visit Number

44.1. Date/Time

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

45. Discharge Date/Time

45.1. Date/Time

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

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

End of segment group PATIENT.PATIENT_VISIT

AL1 - Patient allergy information

- Usage: Optional

- Cardinality:0..*

Seq.	Name	Opt.	Card.	Type	Table	Contents
3	Allergen Code/Mnemonic/Description	R	1..1	CE		
3.1	identifier	R	1..1	ST		
4	Allergy Severity Code	O	0..1	CE	HL70128	
4.1	identifier	O	0..	ST		
5	Allergy Reaction Code	O	0..1	ST		
6	Identification Date	O	0..1	DT		

3. Allergen Code/Mnemonic/Description

Allergy code, name

3.1. identifier

Allergy code.

4. Allergy Severity Code

4.1. identifier

Severity code. Supported values :

- SV = Severe
- MO = Moderate
- MI = Mild
- U = Unknown

5. Allergy Reaction Code

Reaction code.

6. Identification Date

The start date when the allergy was identified. Format : YYYYMMDD

End of segment group PATIENT

Segment group: ORDER

- Usage: Required
- Cardinality:1..*

ORC

- Usage: Required
- Cardinality:1..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..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

Seq.	Name	Opt.	Card.	Type	Table	Contents
7.6	priority	O	0..1	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	R	1..1	ST		
12.9	assigning authority	O	0..	HD		
12.9.1	namespace ID	O	0..	IS	HL70363	
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		
21.3	ID number (NM)	R	1..1	NM		
21.6	assigning authority	O	0..	HD		
21.6.1	namespace ID	R	1..1	IS	HL70363	
25	Order Status Modifier	R	1..1	CWE		
25.1	identifier (ST)	R	1..1	ST		

1. Order Control

Values used:

- SC (Status changed)
- OC (Order canceled)
- XX (Order changed)

2. Placer Order Number

2.1. entity identifier

Placer Order Number Identifier.

2.2. namespace ID

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

3. Filler Order Number

3.1. entity identifier

Filler Order Number Identifier.

3.2. namespace ID

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

5. Order Status

Values used:

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

7. Quantity/Timing

Identical to the Quantity/Timing in OBR-Segment

7.4.1. Date/Time

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

7.5.1. Date/Time

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

12. Ordering Provider

12.1. ID number (ST)

Code of physician providing the order.

12.2.1. surname

Surname of the physician.

12.3. given name

Given name of the physician.

12.9.1. namespace ID

Identifier of the Assigning Authority that issued the physician code.

17. Entering Organization

17.1. identifier

The identifier of the requesting department.

17.2. text

Name of Requesting department.

17.3. name of coding system

Identifier of the Assigning Authority that issued the department identifier.

21. Ordering Facility Name

21.1. organization name

Name of the requesting facility

21.3. ID number (NM)

Identifier of the requesting facility

21.6. assigning authority

Identifier of the Assigning Authority that issued the facility identifier.

25. Order Status Modifier

25.1. identifier (ST)

Values:

- IMAGES_AVAILABLE
- IN_PROGRESS
- ORDERED
- SCHEDULED
- PATIENT_ARRIVED
- COMPLETED
- CANCELLED
- DISCONTINUED
- REPORT_SIGNED

Segment group: ORDER.ORDER DETAIL

- Usage: Required
- Cardinality:1..*

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	R	1..1	NM		e.g. 20040328134602+0600
7	Observation Date/Time #	O	0..1	TS		
7.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
8	Observation End Date/Time #	O	0..1	TS		
8.1	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)	R	1..1	ST		
16.2	family name	O	0..	FN		
16.2.1	surname	R	1..1	ST		
16.3	given name	R	1..1	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	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+0600

Seq.	Name	Opt.	Card.	Type	Table	Contents
24	Diagnostic Serv Sect ID	O	0..1	ID	HL70074	
25	Result Status +	O	0..1	ID	HL70123	
27	Quantity/Timing	O	0..*	TQ		
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
27.5	end date/time	O	0..1	TS		
27.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602
27.6	priority	O	0..1	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		
32.1.9	assigning authority	O	0..	HD		
34	Technician +	O	0..*	CM_NDL		
34.1	name	O	0..	CN		
34.1.1	ID number (ST)	R	1..1	ST		
34.1.2	family name	R	1..1	FN		
34.1.3	given name	R	1..1	ST		
34.1.9	assigning authority	O	0..	HD		

1. Set ID - OBR

2. Placer Order Number

Identical to ORC-2

2.1. entity identifier

Placer Order Number Identifier.

2.2. namespace ID

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

3. Filler Order Number

Identical to ORC-3

3.1. entity identifier

Filler Order Number Identifier.

3.2. namespace ID

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

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

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

Default assigning authority of EI

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

7. Observation Date/Time #**7.1. Date/Time**

Procedure start date/time.

This can be one of the following:

- the date/time of the first started technologist task
- the date/time of the first performed procedure step
- the date/time of the last completed or cancelled technologist task
- In case ORM triggered by MPPS, contains earliest PPS start date/time
- Is empty if procedure in progress has been undone

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

8. Observation End Date/Time #

8.1. Date/Time

Procedure end date/time.

This can be one of the following:

- date/time of the last completed or cancelled technologist task
- latest PPS end date/time in case the orm is triggered by MPPS

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

13. Relevant Clinical Info.

Clinical information.

16. Ordering Provider

Holds the same values as ORC.12

16.1. ID number (ST)

The code of the physician providing the order.

16.2.1. surname

Surname 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

Accession number

19. Placer Field 2

Requested procedure ID

20. Filler Field 1 +

Scheduled Procedure Step ID

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

22.1. Date/Time

The date/time when a modification to a requested procedure or service request is made.

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

24. Diagnostic Serv Sect ID

Modality type for the requested procedure.

Empty when no modality type is present for the requested procedure.

25. Result Status +

Values:

If report available:

- P (Preliminary report available)
- F (Final report available),
- C (corrected report available)

Else

- O (Procedure Ordered)
- S (Procedure Scheduled, Patient Arrived, Procedure In Progress, Procedure Completed),
- X (Procedure Cancelled)

27. Quantity/Timing

Identical to ORC-7

27.4.1. Date/Time

YYYYMMDDHHMMSS

27.5.1. Date/Time

YYYYMMDDHHMMSS

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 + Reading physician

32.1.1. ID number (ST) Code of the physician

32.1.2. family name Family name of the physician.

32.1.3. given name Given name of the physician

32.1.9. assigning authority Identifier of the Assigning Authority that issued the physician code.

34. Technician +

34.1.1. ID number (ST) Code of the technician

34.1.2. family name Family name of the technician.

34.1.3. given name Given name of the technician.

34.1.9. assigning authority Identifier of the Assigning Authority that issued the technician code.

NTE - Notes and Comments

- Usage: Required but may be empty
- Cardinality:0..1

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

3. Comment Procedural comment

4. Comment Type

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

The instance UID used by EI to identify the study.

2. Application ID

fixed value == AGILITY

3. Type of Data

fixed value == Application

4. Subtype

fixed value == DICOM

DG1 - Diagnosis

- Usage: Required but may be empty
- 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: ORDER.ORDER.ORDER DETAIL.OBSERVATION

- Usage: Required
- Cardinality:1..1

OBX - Observation/Result

- Usage: Optional
- Cardinality:0..1
- Implementation note: Segment used to send attachment information or information on Patient Arrived status. Following attachment types are supported in outbound messages: - PDF/Image type attachments with reference pointer - PDF/Image type-attachments as Base64 encoded encapsulated data - Text-attachments - Keyword-attachments

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. RP
3	Observation Identifier	R	1..1	CE		
3.1	identifier	R	1..1	ST		e.g. ATTACHMENT_CODE
3.2	text	R	1..1	ST		e.g. Attachment name
3.4	alternate identifier	C	0..	ST		
3.5	alternate text	R	1..1	ST		
4	Observation Sub-Id	R	1..1	ST		
5	Observation Value	R	1..1	VARIES		
11	Observation Result Status	R	1..1	ID	HL70085	e.g. 0
13	User Defined Access Checks	O	0..*	ST		
14	Date/Time of the Observation	O	0..1	TS		
14.1	Date/Time	R	1..1	NM		
16	Responsible Observer	O	0..*	XCN		

Seq.	Name	Opt.	Card.	Type	Table	Contents
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	R	1..1	HD		
16.9.1	namespace ID	R	1..1	IS	HL70363	

1. Set ID - OBX

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:

- RP for Reference pointer to PDF/Image type attachments
- ED for encapsulated PDF/Image type attachments
- TX for text/keyword attachments

In case of message board text attachments:

- TX

Patient arrived information:

- TX

In case of Pregnancy information :

- TX

3. Observation Identifier

The OBX contents can describe

- an attachment definition
- patient arrived status
- pregnancy information

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

When the value of OBX-3 is PATIENT_ARRIVED, this is used for patient arrived information.

- combination(OBX-2 = TX, OBX-3 = PATIENT_ARRIVED, OBX-5= YES) indicates the patient

3.1. identifier

Identifier for the attachment.

Segment for attachment description :

- Attachment code

Segment for patient arrived information

- PATIENT_ARRIVED

Segment for patient pregnancy information :

- PREGNANT

3.2. text

Name of the attachment.

Segment for attachment description :

- Attachment name

Segment for patient pregnancy information :

- PREGNANCY_INDICATOR

3.4. alternate identifier

Extra identification.

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 patient arrived information

- empty

3.5. alternate text

Fixed Code in case of attachment description.

- ACC for study level attachment or document or pregnancy information

- PAT for patient level attachment

- REP for report level attachment

- PPS for performed procedure step level attachment

- ORD for order level attachment

Segment for patient arrived information

- empty

4. Observation Sub-Id

Extra identification.

Segment for attachment description :

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

Segment for patient arrived information

- empty

5. Observation Value

If OBX-2 = RP

- OBX-5 = path + file name for PDF/Image type attachment with Reference pointer

If OBX-2 = TX + OBX-3 = PATIENT_ARRIVED

- OBX-5 = YES/NO

If OBX-2 = TX + OBX-3 = PREGNANT

- OBX-5 = YES/NO/UNKNOWN

If OBX-2 = TX + OBX-3 = Message board items

- OBX-5 = Plain text

If OBX-2 = ED

- OBX-5.1 = AGILITY

- OBX-5.2 = TEXT (in case of PDF) / IM (in case of Image)

- OBX-5.3 = PDF (in case of PDF) / JPEG, TIFF, GIF, PNG, BMP, JPG, TIF (in case of image: the type of the image)

- OBX-5.4 = Base64

- OBX-5.5 = The encoded attachment as one PDF in Base64 encoding

11. Observation Result Status

fixed value = O

Order detail description only (no result)

13. User Defined Access Checks

Used in combination with Message board text attachments. Possible values 'PUB' (Public) or 'PRV' (Private)

14. Date/Time of the Observation

The date of the observation, or YYYYMMDD (date of last menstrual period - in case of pregnancy information)

For Message board text attachments: The last changed date/time of the message board item (format: YYYYMMDDHH24MISS).

14.1. Date/Time

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

16. Responsible Observer

Used in combination with Message board text attachments. User that added the message board text attachment.

End of segment group ORDER.ORDER.ORDER_DETAIL.OBSERVATION

End of segment group ORDER.ORDER_DETAIL

End of segment group ORDER