



Technical HL7 Conformance Profile

ENTERPRISE IMAGING

INBOUND ORM_O01

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Publication date:

8-2015

Publication number:

V1.0 (technical)

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Message Profile

About this Conformance

This profile describes the ORM message structure used to import order messages from a 3rd party order filler application into Agility RIS. ORM messages treated by this interface are seen as Orders from an Order placer system, and are available in the Order waiting list in Impax RIS. The orders will appear in Agility RIS as if they were created with Receptionist's desktop application. The use case is described in the IHE Radiology Technical Framework - Chapter 4.4 & Chapter 4.13. * Transaction 4 : Procedure Scheduled. * Transaction 13: Procedure Update Remarks: Segments present in the message structure, but marked as -not supported- are allowed to 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: Constraining
- Topics: confsig-Agfa Healthcare-2.4-profile-accAL_accNE-Immediate

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
- Topics: confsig-Agfa Healthcare-2.4-static-ORM-O01-null-ORM_O01-V1.0-DRAFT-Receiver

Message structure

MSH PID [PV1 {[PV2]}] { ORC { OBR {[NTE]} {[OBX] {[NTE]} }} } [ZDS]

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	
6	Receiving Facility	O	0..1	HD	HL70362	
6.1	namespace ID	O	0..	IS	HL70363	
7	Date/Time Of Message	O	0..*	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. ORM
9.2	trigger event	R	1..1	ID	HL70003	e.g. 001
9.3	message structure	R	1..1	ID	HL70354	e.g. ORM_O01
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
18	Character Set	O	0..1	ID	HL70211	

**1. Field Separator****2. Encoding Characters****3. Sending Application****6. Receiving 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. Message Type**10. Message Control ID****12. Version ID**

Highest supported version 2.4

18. Character Set**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	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		
3.6.1	namespace ID	O	0..	IS	HL70363	
3.7	effective date (DT)	O	0..	DT		
3.8	expiration date	O	0..	DT		
5	Patient Name	R	1..*	XPN		
5.1	family name	R	1..1	FN		



Seq.	Name	Opt.	Card.	Type	Table	Contents
5.1.1	surname	R	1..1	ST		
5.1.2	own surname prefix	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		
5.8	Name Representation code	CE	..	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	[(999)] 999-9999 [X99999][C any text]	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		
14	Phone Number - Business	O	0..1	XTN		
14.1	[(999)] 999-9999 [X99999][C any text]	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		
18	Patient Account Number	O	0..1	CX		



Seq.	Name	Opt.	Card.	Type	Table	Contents
18.1	ID	R	1..1	ST		
18.3	code identifying the check digit scheme employed	O	0..	ID	HL70061	
18.4	assigning authority	O	0..	HD		
18.4.1	namespace ID	O	0..	IS	HL70363	
18.5	identifier type code (ID)	RE	0..	ID	HL70203	
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		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.

3.4.1. 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, AN = Account Number, SS = Social Security number, MR = Medical Record 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

Patient's prefix

5.2. given name

Patient's firstname

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

Patient's suffix

5.8. Name Representation code

A or empty = Alphabetic, I = Ideographic and P = Phonetic



7. Date/Time Of Birth

7.1. Date/Time

format YYYYMMDDHHMMSS

8. Administrative Sex

11. Patient Address

11.1.1. street or mailing address

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

11.3. city

If this is not filled in a city with code UNKNOWN will be used

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.

11.6. country

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

This defaults to UKW (Unknown country) when nothing is filled in.

11.7. address type

At the moment 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

First one is the primary home communication channel

13.1. [(999)] 999-9999 [X99999][C any text]

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

13.2. telecommunication use code

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

At the moment the ones supported are: Primary Residence Number (PRN), Work Number (WPN) and Network (email) Address (NET)

13.3. telecommunication equipment type (ID)

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

At the moment the ones 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. [(999)] 999-9999 [X99999][C any text]**

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.

At the moment the ones supported are: Primary Residence Number (PRN), Work Number (WPN) and Network (email) Address (NET)

14.3. telecommunication equipment type (ID)

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

At the moment the ones 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.

18. Patient Account Number**18.1. ID**

Patient's account number

18.5. identifier type code (ID)

Only code AC is supported. If empty AC will be used by default.

19. SSN Number - Patient**23. Birth Place****29. Patient Death Date and Time**

YYYYMMDDHHHMMSS or ""

Condition Predicate:

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

29.1. Date/Time

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

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

30. Patient Death Indicator

Y or N

Segment group: PATIENT.PATIENT VISIT

- Usage: Required but may be empty
- Cardinality:0..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		
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	location status	O	0..	IS	HL70306	
3.6	person location type	O	0..	IS	HL70305	
3.7	building	O	0..	IS	HL70307	
3.8	floor	O	0..	IS	HL70308	
3.9	Location description	O	0..	ST		
4	Admission Type	O	0..1	IS	HL70007	
5	Preadmit Number	O	0..1	CX		
5.1	ID	O	0..	ST		
5.3	code identifying the check digit scheme employed	O	0..	ID	HL70061	
5.4	assigning authority	O	0..	HD		
5.4.1	namespace ID	O	0..	IS	HL70363	
5.4.2	universal ID	O	0..	ST		
5.4.3	universal ID type	O	0..	ID	HL70301	
5.5	identifier type code (ID)	O	0..	ID	HL70203	
5.6	assigning facility	O	0..	HD		
5.6.1	namespace ID	O	0..	IS	HL70363	
5.6.2	universal ID	O	0..	ST		
5.6.3	universal ID type	O	0..	ID	HL70301	
5.7	effective date (DT)	O	0..	DT		
5.8	expiration date	O	0..	DT		
6	Prior Patient Location	O	0..1	PL		
6.1	point of care	O	0..	IS	HL70302	
6.2	room	O	0..	IS	HL70303	
6.3	bed	O	0..	IS	HL70304	



Seq.	Name	Opt.	Card.	Type	Table	Contents
6.4	facility (HD)	O	0..	HD		
6.4.1	namespace ID	O	0..	IS	HL70363	
6.4.2	universal ID	O	0..	ST		
6.4.3	universal ID type	O	0..	ID	HL70301	
6.5	location status	O	0..	IS	HL70306	
6.6	person location type	O	0..	IS	HL70305	
6.7	building	O	0..	IS	HL70307	
6.8	floor	O	0..	IS	HL70308	
6.9	Location description	O	0..	ST		
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		
7.2.2	own surname prefix	O	0..	ST		
7.2.3	own surname	O	0..	ST		
7.2.4	surname prefix from partner/spouse	O	0..	ST		
7.2.5	surname from partner/spouse	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		
7.7	degree (e.g., MD)	O	0..	IS	HL70360	
7.8	source table	O	0..	IS	HL70297	
7.9	assigning authority	O	0..	HD		
7.9.1	namespace ID	O	0..	IS	HL70363	
7.9.2	universal ID	O	0..	ST		
7.9.3	universal ID type	O	0..	ID	HL70301	
7.10	name type code	O	0..	ID	HL70200	
7.11	identifier check digit	O	0..	ST		
7.12	code identifying the check digit scheme employed	O	0..	ID	HL70061	
7.13	identifier type code (IS)	O	0..	IS		
7.14	assigning facility	O	0..	HD		
7.14.1	namespace ID	O	0..	IS	HL70363	
7.14.2	universal ID	O	0..	ST		
7.14.3	universal ID type	O	0..	ID	HL70301	
7.15	Name Representation code	O	0..	ID	HL70465	



Seq.	Name	Opt.	Card.	Type	Table	Contents
7.16	name context	O	0..	CE	HL70448	
7.16.1	identifier	O	0..	ST		
7.16.2	text	O	0..	ST		
7.16.3	name of coding system	O	0..	IS	HL70396	
7.16.4	alternate identifier	O	0..	ST		
7.16.5	alternate text	O	0..	ST		
7.16.6	name of alternate coding system	O	0..	IS	HL70396	
7.17	name validity range	O	0..	DR		
7.17.1	range start date/time	O	0..	TS		
7.17.2	range end date/time	O	0..	TS		
7.18	name assembly order	O	0..	ID	HL70444	
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		
8.2.2	own surname prefix	O	0..	ST		
8.2.3	own surname	O	0..	ST		
8.2.4	surname prefix from partner/spouse	O	0..	ST		
8.2.5	surname from partner/spouse	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		
8.7	degree (e.g., MD)	O	0..	IS	HL70360	
8.8	source table	O	0..	IS	HL70297	
8.9	assigning authority	O	0..	HD		
8.9.1	namespace ID	O	0..	IS	HL70363	
8.9.2	universal ID	O	0..	ST		
8.9.3	universal ID type	O	0..	ID	HL70301	
8.10	name type code	O	0..	ID	HL70200	
8.11	identifier check digit	O	0..	ST		
8.12	code identifying the check digit scheme employed	O	0..	ID	HL70061	
8.13	identifier type code (IS)	O	0..	IS		
8.14	assigning facility	O	0..	HD		
8.14.1	namespace ID	O	0..	IS	HL70363	
8.14.2	universal ID	O	0..	ST		



Seq.	Name	Opt.	Card.	Type	Table	Contents
8.14.3	universal ID type	O	0..	ID	HL70301	
8.15	Name Representation code	O	0..	ID	HL70465	
8.16	name context	O	0..	CE	HL70448	
8.16.1	identifier	O	0..	ST		
8.16.2	text	O	0..	ST		
8.16.3	name of coding system	O	0..	IS	HL70396	
8.16.4	alternate identifier	O	0..	ST		
8.16.5	alternate text	O	0..	ST		
8.16.6	name of alternate coding system	O	0..	IS	HL70396	
8.17	name validity range	O	0..	DR		
8.17.1	range start date/time	O	0..	TS		
8.17.2	range end date/time	O	0..	TS		
8.18	name assembly order	O	0..	ID	HL70444	
10	Hospital Service	O	0..1	IS	HL70069	
11	Temporary Location	O	0..1	PL		
11.1	point of care	O	0..	IS	HL70302	
11.2	room	O	0..	IS	HL70303	
11.3	bed	O	0..	IS	HL70304	
11.4	facility (HD)	O	0..	HD		
11.4.1	namespace ID	O	0..	IS	HL70363	
11.4.2	universal ID	O	0..	ST		
11.4.3	universal ID type	O	0..	ID	HL70301	
11.5	location status	O	0..	IS	HL70306	
11.6	person location type	O	0..	IS	HL70305	
11.7	building	O	0..	IS	HL70307	
11.8	floor	O	0..	IS	HL70308	
11.9	Location description	O	0..	ST		
14	Admit Source	O	0..1	IS	HL70023	
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		
17.2.2	own surname prefix	O	0..	ST		
17.2.3	own surname	O	0..	ST		
17.2.4	surname prefix from partner/spouse	O	0..	ST		



Seq.	Name	Opt.	Card.	Type	Table	Contents
17.2.5	surname from partner/spouse	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		
17.7	degree (e.g., MD)	O	0..	IS	HL70360	
17.8	source table	O	0..	IS	HL70297	
17.9	assigning authority	O	0..	HD		
17.9.1	namespace ID	O	0..	IS	HL70363	
17.9.2	universal ID	O	0..	ST		
17.9.3	universal ID type	O	0..	ID	HL70301	
17.10	name type code	O	0..	ID	HL70200	
17.11	identifier check digit	O	0..	ST		
17.12	code identifying the check digit scheme employed	O	0..	ID	HL70061	
17.13	identifier type code (IS)	O	0..	IS		
17.14	assigning facility	O	0..	HD		
17.14.1	namespace ID	O	0..	IS	HL70363	
17.14.2	universal ID	O	0..	ST		
17.14.3	universal ID type	O	0..	ID	HL70301	
17.15	Name Representation code	O	0..	ID	HL70465	
17.16	name context	O	0..	CE	HL70448	
17.16.1	identifier	O	0..	ST		
17.16.2	text	O	0..	ST		
17.16.3	name of coding system	O	0..	IS	HL70396	
17.16.4	alternate identifier	O	0..	ST		
17.16.5	alternate text	O	0..	ST		
17.16.6	name of alternate coding system	O	0..	IS	HL70396	
17.17	name validity range	O	0..	DR		
17.17.1	range start date/time	O	0..	TS		
17.17.2	range end date/time	O	0..	TS		
17.18	name assembly order	O	0..	ID	HL70444	
18	Patient Type	O	0..1	IS	HL70018	
19	Visit Number	O	0..1	CX		
19.1	ID	O	0..	ST		
19.3	code identifying the check digit scheme employed	O	0..	ID	HL70061	



Seq.	Name	Opt.	Card.	Type	Table	Contents
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	
19.5	identifier type code (ID)	O	0..	ID	HL70203	
19.6	assigning facility	O	0..	HD		
19.6.1	namespace ID	O	0..	IS	HL70363	
19.6.2	universal ID	O	0..	ST		
19.6.3	universal ID type	O	0..	ID	HL70301	
19.7	effective date (DT)	O	0..	DT		
19.8	expiration date	O	0..	DT		
44	Admit Date/Time	O	0..1	TS		
44.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600
44.2	degree of precision	O	0..	ST		e.g. D
45	Discharge Date/Time	O	0..1	TS		
45.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600



1. Set ID - PV1

2. Patient Class

3. Assigned Patient Location

4. Admission Type

5. Preadmit Number

6. Prior Patient Location

7. Attending Doctor

8. Referring Doctor

10. Hospital Service

11. Temporary Location

14. Admit Source

15. Ambulatory Status

16. VIP Indicator

17. Admitting Doctor

18. Patient Type

19. Visit Number

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

44.2. degree of precision

Retained for backward compatibility only

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 PATIENT.PATIENT_VISIT

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	O	0..1	EI		
2.1	entity identifier	O	0..	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	R	1..1	ID	HL70038	
7	Quantity/Timing	R	1..*	TQ		
7.4	start date/time	R	1..1	TS		
7.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
7.5	end date/time	R	1..1	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		
10.2.4	surname prefix from partner/spouse	O	0..	ST		
10.2.5	surname from partner/spouse	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		
10.7	degree (e.g., MD)	O	0..	IS	HL70360	
10.8	source table	O	0..	IS	HL70297	
10.9	assigning authority	O	0..	HD		
10.9.1	namespace ID	O	0..	IS	HL70363	



Seq.	Name	Opt.	Card.	Type	Table	Contents
10.9.2	universal ID	O	0..	ST		
10.9.3	universal ID type	O	0..	ID	HL70301	
10.10	name type code	O	0..	ID	HL70200	
10.11	identifier check digit	O	0..	ST		
10.12	code identifying the check digit scheme employed	O	0..	ID	HL70061	
10.13	identifier type code (IS)	O	0..	IS		
10.14	assigning facility	O	0..	HD		
10.14.1	namespace ID	O	0..	IS	HL70363	
10.14.2	universal ID	O	0..	ST		
10.14.3	universal ID type	O	0..	ID	HL70301	
10.15	Name Representation code	O	0..	ID	HL70465	
10.16	name context	O	0..	CE	HL70448	
10.16.1	identifier	O	0..	ST		
10.16.2	text	O	0..	ST		
10.16.3	name of coding system	O	0..	IS	HL70396	
10.16.4	alternate identifier	O	0..	ST		
10.16.5	alternate text	O	0..	ST		
10.16.6	name of alternate coding system	O	0..	IS	HL70396	
10.17	name validity range	O	0..	DR		
10.17.1	range start date/time	O	0..	TS		
10.17.2	range end date/time	O	0..	TS		
10.18	name assembly order	O	0..	ID	HL70444	
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		
12.9	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		
21.2	organization name type code	O	0..	IS	HL70204	



Seq.	Name	Opt.	Card.	Type	Table	Contents
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	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

Supported: NW (New order), XO (Change Order), CA (Cancel Order)

2. Placer Order Number

3. Filler Order Number

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

7.4.1. Date/Time

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

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

7.5.1. Date/Time

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

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

7.6. priority

High Priority codes: A - ASAP T - Time Critical

Medium Priority codes: PRN - As needed S - Stat

Low Priority Codes: C - Callback P - Prep R - Routine



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.

17. Entering Organization

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.

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		e.g. 1
2	Placer Order Number	O	0..1	EI		
2.1	entity identifier	O	0..	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	
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		



Seq.	Name	Opt.	Card.	Type	Table	Contents
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
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	R	1..1	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	
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	
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	C	0..1	ST		
19	Placer Field 2	R	1..1	ST		
20	Filler Field 1 +	R	1..1	ST		
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	



Seq.	Name	Opt.	Card.	Type	Table	Contents
27.2.2	explicit time interval	O	0..	ST		
27.3	duration	O	0..	ST		
27.4	start date/time	R	1..1	TS		
27.4.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.5	end date/time	R	1..1	TS		
27.5.1	Date/Time	R	1..1	NM		e.g. 20040328134602+0600
27.6	priority	O	0..	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		
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	O	0..	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		
29	Parent	O	0..1	CM_EIP		
29.1	parent's placer order number	O	0..	EI		
29.1.1	entity identifier	O	0..	ST		
29.1.2	namespace ID	O	0..	IS	HL70363	
29.1.3	universal ID	O	0..	ST		
29.1.4	universal ID type	O	0..	ID	HL70301	
29.2	parent's filler order number	O	0..	EI		



Seq.	Name	Opt.	Card.	Type	Table	Contents
29.2.1	entity identifier	O	0..	ST		
29.2.2	namespace ID	O	0..	IS	HL70363	
29.2.3	universal ID	O	0..	ST		
29.2.4	universal ID type	O	0..	ID	HL70301	
30	Transportation Mode	O	0..1	ID	HL70124	
31	Reason for Study	O	0..2	CE		
31.1	identifier	O	0..	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	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		
32.3	end date/time	O	0..	TS		
32.4	point of care (IS)	O	0..	IS		
32.5	room	O	0..	IS	HL70303	
32.6	bed	O	0..	IS	HL70304	
32.7	facility (HD)	O	0..	HD		
32.7.1	namespace ID	O	0..	IS	HL70363	
32.7.2	universal ID	O	0..	ST		
32.7.3	universal ID type	O	0..	ID	HL70301	
32.8	location status	O	0..	IS	HL70306	
32.9	person location type	O	0..	IS	HL70305	
32.10	building	O	0..	IS	HL70307	
32.11	floor	O	0..	IS	HL70308	
34	Technician +	O	0..1	CM_NDL		
34.5	room	O	0..	IS	HL70303	
36	Scheduled Date/Time +	O	0..1	TS		
36.1	Date/Time	O	0..	NM		e.g. 20040328134602+0600



1. Set ID - OBR

2. Placer Order Number

Identical to ORC-2

3. Filler Order Number

Identical to ORC-3

4. Universal Service Identifier

5. Priority

Supported: A (ASAP), R (Routine), PRN (As needed)

6. Requested Date/Time

Used as order creation date/time. When 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.

17. Order Callback Phone Number

18. Placer Field 1

Condition Predicate:

Field is required when the message has no StudyInstanceUid specified. (no ZDS segment)

19. Placer Field 2

20. Filler Field 1 +

24. Diagnostic Serv Sect ID

27. Quantity/Timing

Identical to ORC-7

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.

**27.4.1. Date/Time**

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

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

27.5.1. Date/Time

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

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

27.6. priority

Supported: A (ASAP), R (Routine), PRN (As needed)

29. Parent**30. Transportation Mode****31. Reason for Study****32. Principal Result Interpreter +****34. Technician +****36. Scheduled Date/Time +**

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

If this field is empty, then the value of OBR.6 will be used as requested procedure scheduled study date/time and scheduled procedure step start date/time.

36.1. Date/Time

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

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

NTE - Notes and Comments

- Usage: Required but may be empty

- Cardinality:0..*

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

1. Set ID - NTE

<DataType=SQ>

3. Comment

4. Comment Type

4.1. identifier

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

Segment group: ORDER.ORDER DETAIL.OBSERVATION

-

ORDER.ORDER.ORDER DETAIL.ORDER.ORDER DETAIL.OBSERVATION

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

OBX - Observation/Result

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

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - OBX	R	1..1	SI		
2	Value Type	R	1..1	ID	HL70125	
3	Observation Identifier	R	1..1	CE		
3.1	identifier	R	1..1	ST		
3.2	text	O	0..	ST		
4	Observation Sub-Id	O	0..1	ST		
5	Observation Value	R	1..1	*		
11	Observation Result Status	O	0..1	ID	HL70085	

1. Set ID - OBX

<DataType=SQ>

2. Value Type

Supported value(s)

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

3. Observation Identifier

3.1. identifier

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' or '_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

Optional description of the Observation

4. Observation Sub-Id

5. Observation Value

Supported:

- 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))

11. Observation Result Status

End of segment group ORDER.ORDER_DETAIL.OBSERVATION

End of segment group ORDER.ORDER_DETAIL

End of segment group ORDER

ZDS

- Usage: Optional
- Cardinality:0..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 Agility Study instance UID



<DataType=UID>

2. Application ID

fixed value == AGILITY

3. Type of Data

fixed value == Application

4. Subtype

fixed value == DICOM