

# HL7 Conformance Profile

# **(R)IS OUTBOUND SIU S12**

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**Publication date:**

juli, 2019

**Publication number:**

Not yet assigned

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## Conformance parameters

### Message Profile

- HL7 Version: 2.4
- Profile Type: Constrainable
- Topics: confsig-Agfa - Quadrat-2.4-profile-accNE\_accNE-Immediate

### Encoding Method (s)

ER7, XML

## Interaction 1

### Dynamic Definition

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

### Static Definition

- Message Type: SIU
- Trigger Event: S12
- Message Structure: SIU\_S12
- Topics: confsig-Agfa - Quadrat-2.4-static-SIU-S12-null-SIU\_S12-2005.3.1--Sender

### Message structure

```
MSH SCH {[NTE]} [ZAG] [{ PID [PV1] }] { RGS [{ [AIS] [NTE] }] [{ [AIG] }] [{ [AIL] }] [{ [AIP] }] }
```

### MSH - Message Header

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Field Separator	ST		1	R	1..1	e.g.
2	Encoding Characters	ST		4	R	1..1	e.g. ^~\&
3	Sending Application	HD		227	O	0..1	
3.1	namespace ID	IS		180	O	..	e.g. QDOC
4	Sending Facility	HD		227	O	0..1	
4.1	namespace ID	IS		180	O	..	e.g. AGFA
5	Receiving Application	HD		227	O	0..1	
5.1	namespace ID	IS		180	O	..	e.g. RAPP
6	Receiving Facility	HD		227	O	0..1	
6.1	namespace ID	IS		8	O	..	e.g. RFAC
7	Date/Time Of Message	TS		26	R	1..1	
7.1	Date/Time	NM		14	R	..	e.g. 20050607134235
9	Message Type	CM_MSG	HL70076	15	R	1..1	
9.1	message type	ID	HL70076	3	O	..	e.g. SIU
9.2	trigger event	ID	HL70003	3	O	..	e.g. S12
9.3	message structure	ID	HL70354	6	O	..	e.g. SIU_12
10	Message Control ID	ST		20	R	1..1	e.g. msgID567783
11	Processing ID	PT		3	R	1..1	
11.1	processing ID	ID	HL70103	3	O	..	e.g. P
12	Version ID	VID	HL70104	973	R	1..1	
12.1	version ID	ID	HL70104	5	O	..	e.g. 2.4

### 1. Field Separator

This field contains the separator between the segment ID and the first real field: MSH-2. It defines the character which will be used as a separator for the entire message. Recommended value is "|" (ASCII 124).

## 2. Encoding Characters

This field contains four characters that represent: component separator, repetition separator, escape character and subcomponent separator. Recommended values are ^,~,\\ and & (ASCII 94, 126, 92 and 38)

### 7.1. Date/Time

The date/time that the sending system created the message. The format is: YYYYMMDDHHMMSS

### 9.1. message type

The value for this field is SIU which is system defined and fixed. The receiving system uses this to recognize the data segments or the application to which to route the message.

### 9.2. trigger event

The value send is S12 which is system defined and fixed. It indicates the response event type which is Insert for S12.

### 9.3. message structure

The structure of the message which Agfa Healthcare will always sent SIU\_S12.

## 10. Message Control ID

The ID that uniquely identifies the message. The receiving system will use the same ID in the return acknowledgement message.

### 11.1. processing ID

This field is used to decide whether to process the message. Values are: D Debuggin P Production T Training

## **SCH - Scheduling Activity Information**

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
2	Filler Appointment ID	EI		427	C	0..1	
2.1	entity identifier	ST		50	R	..	e.g. 00029725
2.2	namespace ID	IS	HL70363	8	O	..	e.g. QPLANNER
3	Occurrence Number	NM		1	R	1..1	e.g. 1
6	Event Reason	CE		483	R	1..1	
6.1	identifier	ST		10	O	..	e.g. NW
6.2	text	ST		100	O	..	
6.5	alternate text	ST		254	O	..	
7	Appointment Reason	CE	HL70276	483	O	0..1	
7.1	identifier	ST		50	O	..	
7.2	text	ST		2000	O	..	e.g. ABDOMINAL PAIN-AS ABOVE-C11/ SUPINE AND UPRIGHT
11	Appointment Timing Quantity	TQ		1545	R	1..*	
11.4	start date/time	TS		16	O	..	
11.4.1	Date/Time	NM		14	R	..	e.g. 200506071345
11.5	end date/time	TS		16	O	..	
11.5.1	Date/Time	NM		14	R	..	e.g. 200506071350
11.6	priority	ST		3	O	..	e.g. A
12	Placer Contact Person	XCN		3002	O	0..*	
12.1	ID number (ST)	ST		25	O	..	e.g. 1316

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
12.2	family name	FN		174	O	..	
12.2.1	surname	ST		30	O	..	e.g. Requesting
12.3	given name	ST		30	O	..	e.g. Physician
12.4	second and further given names or initials thereof	ST		30	O	..	
15	Placer Contact Location	PL		1230	O	0..1	
15.1	point of care	IS		100	O	..	e.g. ORTHO
15.9	Location description	ST		20	O	..	e.g. Orthopedics
16	Filler Contact Person	XCN		3002	R	1..*	
16.1	ID number (ST)	ST		40	O	..	e.g. User1234
20	Entered By Person	XCN		3002	R	1..*	
20.1	ID number (ST)	ST		40	O	..	e.g. User1234
25	Filler Status Code	CE	HL70278	483	R	1..1	
25.1	identifier	ST		30	R	..	e.g. BOOKED
26	Placer Order Number	EI		427	C	0..2	
26.1	entity identifier	ST		50	O	..	e.g. OrderID3459900
26.2	namespace ID	IS		20	O	..	
27	Filler Order Number	EI		427	C	0..2	
27.1	entity identifier	ST		15	O	..	

## 2. Filler Appointment ID

Unique identifier for the appointment

### 2.2. namespace ID

In this field Agfa sends the value QPLANNER.

## 3. Occurrence Number

Fixed value 1

### 6.1. identifier

This field contains an identifier code for the reason that the notification event was triggered. Depending on the QPlanner configuration, a pop up can prompt the user for a reason when an appointment is saved or modified. The reason filled in by the user will be inserted in this field. If this functionality is not configured in QPlanner the default value will be 'NW'.

### 6.2. text

The description of the code.

### 6.5. alternate text

The second or alternative description of the code.

## 7. Appointment Reason

Clinical information or exam

## 11. Appointment Timing Quantity

Appointment start and end date and time

### 11.4.1. Date/Time

The start date and time of the appointment.

### 11.5.1. Date/Time

The end date and time of the appointment.

### 11.6. priority

Depending on the configuration in the interface parameters (MapAppointmentPriority) the value of this field is mapped towards QPlanner appointment priorities. Possible values: S,A,R,P,C,T,PRN,R

### 12. Placer Contact Person

Requesting physician

### 15. Placer Contact Location

Requesting department

### 15.1. point of care

Requesting department ID

### 15.9. Location description

Requesting department name

### 16.1. ID number (ST)

QPlanner userid of the user that created or modified the appointment

### 20.1. ID number (ST)

QPlanner userid of the user that created the appointment

### 25. Filler Status Code

Appointment status code, e.g. BOOKED

### 26.1. entity identifier

If an order is linked to the appointment, this field contains the order placer id.

### 26.2. namespace ID

order placer id

### 27.1. entity identifier

accession number

## NTE - Notes and Comments

- Usage: Optional

- Cardinality:0..\*

- Implementation note: In the SIU outbound interface, the NTE segment that comes immediately after the SCH segment, is used to send the appointment remarks.

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
3	Comment	FT		200	O	0..*	e.g. Patient cannot walk fast

### 3. Comment

This field contains the text from the Extra Remark box in QPlanner that was filled in for the appointment.

## ZAG - Custom Appointment Grouping

- Usage: Optional

- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Filler Appointment Group ID	EI		427	R	1..1	
1.1	entity identifier	ST		10	R	..	e.g. 1

### 1.1. entity identifier

Appointment batch identifier

## Segment group: PATIENT

- Usage: Optional
- Cardinality:0..\*

## PID - Patient identification

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
2	Patient ID	CX		1913	O	0..1	
2.1	ID	ST		20	O	..	e.g. PatID12345
3	Patient Identifier List	CX		1913	R	1..*	
3.1	ID	ST		200	O	..	e.g. PatID12345
3.2	Check digit	ST		200	O	..	
3.3	code identifying the check digit scheme employed	ID	HL70061	200	O	..	
3.4	assigning authority	HD		602	O	..	
3.4.1	namespace ID	IS		200	O	..	e.g. HIS
3.4.2	universal ID	ST		200	O	..	
3.4.3	universal ID type	ID	HL70301	200	O	..	
3.5	identifier type code (ID)	ID	HL70203	200	O	..	
3.6	assigning facility	HD		602	O	..	
3.6.1	namespace ID	IS	HL70363	200	O	..	
3.6.2	universal ID	ST		200	O	..	
3.6.3	universal ID type	ID	HL70301	200	O	..	
3.8	expiration date	DT		8	O	..	e.g. 20060927
4	Alternate Patient ID - PID	CX		1913	O	0..1	
4.1	ID	ST		30	O	..	
5	Patient Name	XPN		1103	R	1..1	
5.1	family name	FN		174	O	..	
5.1.1	surname	ST		30	R	..	e.g. Smith
5.2	given name	ST		30	O	..	e.g. Robert
5.3	second and further given names or initials thereof	ST		30	O	..	
7	Date/Time Of Birth	TS		26	R	1..1	
7.1	Date/Time	NM		12	R	..	e.g. 197111250000
8	Administrative Sex	IS	HL70001	1	O	0..1	e.g. M
11	Patient Address	XAD		631	O	0..*	
11.1	street address (SAD)	SAD		338	O	..	
11.1.1	street or mailing address	ST		274	O	..	e.g. Mainstreet 145
11.2	other designation	ST		3	O	..	
11.3	city	ST		30	O	..	e.g. London
11.4	state or province	ST		40	O	..	
11.5	zip or postal code	ST		20	O	..	e.g. 53151
11.6	country	ID	HL70399	3	O	..	e.g. GBR
13	Phone Number - Home	XTN		850	O	0..*	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
13.1	[(999)] 999-9999 [X99999][C any text]	TN		20	O	..	e.g. 3234448100
13.2	telecommunication use code	ID	HL70201	3	O	..	
13.3	telecommunication equipment type (ID)	ID	HL70202	3	O	..	
13.4	Email address	ST		3	O	..	
14	Phone Number - Business	XTN		850	O	0..*	
14.1	[(999)] 999-9999 [X99999][C any text]	TN		20	O	..	e.g. 3234448200
15	Primary Language	CE	HL70296	483	O	0..1	
15.1	identifier	ST		20	O	..	e.g. ENG
16	Marital Status	CE	HL70002	483	O	0..1	
16.1	identifier	ST		1	O	..	e.g. M
18	Patient Account Number	CX		1913	O	0..1	
18.1	ID	ST		50	O	..	e.g. 5467657
19	SSN Number - Patient	ST		20	O	0..1	e.g. 12345678912
23	Birth Place	ST		30	O	0..1	e.g. Deinze
28	Nationality	CE	HL70212	483	O	0..1	
28.1	identifier	ST		20	O	..	e.g. GBR

#### 4. Alternate Patient ID - PID

Extra code field

#### 7.1. Date/Time

Birthdate and time of the patient. Format used is YYYYMMDDHHMM.

#### 8. Administrative Sex

The sex of the patient. Values are F, M and U.

#### 11.1.1. street or mailing address

street concatenated with house number

#### 13.2. telecommunication use code

NET when there is an email address

#### 13.3. telecommunication equipment type (ID)

FX when there is a fax number

#### 16.1. identifier

The code for the marital status of the patient. If checked the value will be 'M'.

#### 18. Patient Account Number

Patients most recent account number

#### 18.1. ID

Transfer ID of the patient.

### PV1 - Patient visit

- Usage: Optional

- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
2	Patient Class	IS	HL70004	1	R	1..1	e.g. O
15	Ambulatory Status	IS	HL70009	10	O	0..1	e.g. Walking
18	Patient Type	IS	HL70018	10	O	0..1	e.g. A1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
19	Visit Number	CX		1913	O	0..1	
19.1	ID	ST		20	O	..	e.g. VISIT12345

## 2. Patient Class

Patient Class linked to the visit (received from the HIS)

## 15. Ambulatory Status

The code identifying the Patient Mobility which is set up in QPlanner. The field is user defined but can have data such as Walking, Bed or Wheelchair.

## 18. Patient Type

Agfa internal patient type/class

**End of segment group PATIENT**

## Segment group: RESOURCES

- Usage: Required
- Cardinality:1..\*

## RGS - Resource Group

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - RGS	SI		1	R	1..1	e.g. 1

## 1. Set ID - RGS

This field will always be filled with a 1.

## Segment group: SERVICE

- Usage: Optional
- Cardinality:0..\*

## AIS - Appointment Information - Service

- Usage: Optional
- Cardinality: 0..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - AIS	SI		1	R	1..1	e.g. 1
3	Universal Service Identifier	CE		483	R	1..1	
3.1	identifier	ST		50	O	..	e.g. UPPAL
3.2	text	ST		254	O	..	e.g. Chest Erect PA + Lateral
11	Placer Supplemental Service Information	CE	HL70411	483	O	0..2	
11.1	identifier	ST		10	O	..	
12	Filler Supplemental Service Information	CE	HL70411	483	O	0..2	
12.1	identifier	ST		10	O	..	

## 1. Set ID - AIS

This field will always be filled with a 1.

## 3.1. identifier

Exam identifier

### 11.1. identifier

Agfa Healthcare fills this field with the QPlanner exam subdivision. An example could be: Left.

### 12.1. identifier

Agfa Healthcare fills this field with the QPlanner exam subdivision. An example could be: Left.

## **NTE - Notes and Comments**

- Usage: Optional
- Cardinality: 0..1
- Implementation note: The NTE segment that comes immediately after the AIS segment, is used to send the appointment remarks.

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
3	Comment	FT		200	O	0..*	

### 3. Comment

This field (and the NTE segment) is filled in with the QPlanner Exam Remark textbox.

## ***End of segment group SERVICE***

## **Segment group: GENERAL RESOURCE**

- Usage: Optional
- Cardinality: 0..\*

## **AIG - Appointment Information - General Resource**

- Usage: Optional
- Cardinality: 0..\*
- Implementation note: Used for 2 types: MODALITY and PATIENT (pre- and post-op)

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - AIG	SI		4	R	1..1	
3	Resource ID	CE		483	O	0..1	
3.1	identifier	ST		30	O	..	e.g. MRI-12
3.2	text	ST		60	O	..	
4	Resource Type	CE		483	R	1..1	
4.1	identifier	ST		20	O	..	e.g. MODALITY
4.2	text	ST		20	O	..	
9	Start Date/Time Offset	NM		4	O	0..1	
10	Start Date/Time Offset Units	CE		483	O	0..1	
10.1	identifier	ST		1	O	..	
10.2	text	ST		7	O	..	
11	Duration	NM		4	O	0..1	
12	Duration Units	CE		483	O	0..1	
12.1	identifier	ST		1	O	..	
12.2	text	ST		7	O	..	

### 3.1. identifier

Resource (modality) identifier or patient identifier.

#### 4.1. identifier

MODALITY or PATIENT

#### 9. Start Date/Time Offset

Only filled when resource type is PATIENT. = Pre-op expressed in minutes

#### 10.1. identifier

The value of this field will be 'M'.

#### 11. Duration

The total time in minutes for which the exam is scheduled plus pre-ops and pre-post time. Only filled for resource type PATIENT

#### 12.1. identifier

The value of this field will be 'M'.

**End of segment group GENERAL\_RESOURCE**

### **Segment group: LOCATION\_RESOURCE**

- Usage: Optional
- Cardinality:0..\*

### **AIL - Appointment Information - Location Resource**

- Usage: Optional
- Cardinality:0..\*
- Implementation note: Used for performing department and exam room.

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - AIL	SI		3	O	0..1	e.g. 1
3	Location Resource ID	PL		1230	C	0..1	
3.1	point of care	IS		100	O	..	e.g. RAD
3.9	Location description	ST		100	O	..	e.g. Radiology or Room25
4	Location Type-AIL	CE		483	R	1..1	
4.1	identifier	ST		1	O	..	e.g. D
4.2	text	ST		10	O	..	e.g. DEPARTMENT

#### 3.1. point of care

Department id or exam room id

#### 3.9. Location description

Department name or exam room description.

#### 4.1. identifier

If the AIL segment refers to the performing department the value will be D (Department). If the AIL segment is the exam room the value will be E (Exam Room).

#### 4.2. text

DEPARTMENT or EXAM ROOM.

**End of segment group LOCATION\_RESOURCE**

### **Segment group: PERSONNEL\_RESOURCE**

- Usage: Optional
- Cardinality:0..\*

## **AIP - Appointment Information - Personnel Resource**

- Usage: Optional
- Cardinality:0..\*
- Implementation note: The AIP segment will be used for physicians that were allocated for the appointment in QPlanner.

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - AIP	SI		4	R	1..1	e.g. 1
3	Personnel Resource ID	XCN		3002	O	0..1	
3.1	ID number (ST)	ST		20	O	..	e.g. 87645
3.2	family name	FN		127	O	..	
3.2.1	surname	ST		30	O	..	e.g. HAYWARD
3.2.5	surname from partner/spouse	ST		3	O	..	
3.3	given name	ST		30	O	..	e.g. PAUL
4	Resource Role	CE		483	R	1..1	
4.1	identifier	ST		9	O	..	e.g. PHYSICIAN

### **3.1. ID number (ST)**

Resource identifier (e.g. id of the physician)

### **4.1. identifier**

Value PHYSICIAN

***End of segment group PERSONNEL\_RESOURCE***

***End of segment group RESOURCES***