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# HL7 Conformance Profile

# **ADT A02 & A03 Outbound**

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## About this Conformance Profile

Conformance profile ADT Outbound from AGFA RIS HL7PACS interface

### HL7PACS

This profile describes the HL7 ADT message structure to send out patient demographics and visit data to a PACS system.

#### History:

2013-06-14 - Creation - C\_deric Missinne

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

## Conformance parameters

### Message Profile

- HL7 Version: 2.3.1
- Profile Type: Constraining
- Topics: confsig-AGFA-2.3.1-profile-accNE\_accNE-Immediate

### Encoding Method

ER7

## Use Case

### Actors

- HIS:"ADT system - where patients/visits are registered"
- Agfa (R)IS:"Departmental system (e.g Radiology Information System)"

### Pre Conditions

### Event Flow

### Post Conditions

### Derived Events

## Interaction 1

### Dynamic Definition

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

### Static Definition

- Event Description: ADT/ACK - Transfer a patient
- Message Type: ADT
- Trigger Event: A02-A03
- Topics: confsig-AGFA-2.3.1-static-ADT-A02-A03-null----Sender

### Message structure

MSH EVN PID PV1

### 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	R	1..1	
3.1	namespace ID	IS		50	R	..	e.g. HIS
4	Sending Facility	HD		227	O	0..1	
4.1	namespace ID	IS		50	O	..	e.g. FACILITY1
5	Receiving Application	HD	HL70361	227	O	0..1	
5.1	namespace ID	IS		50	O	..	e.g. AGFA
5.2	universal ID	ST		3	O	..	
5.3	universal ID type	ID	HL70301	3	O	..	
6	Receiving Facility	HD	HL70362	227	O	0..1	
6.1	namespace ID	IS	HL70363	50	O	..	e.g. RIS
6.2	universal ID	ST		3	O	..	
6.3	universal ID type	ID	HL70301	3	O	..	
7	Date/Time Of Message	TS		26	R	1..1	
7.1	Date/Time	NM		24	R	..	e.g. 200511070945
9	Message Type	CM_MSG	HL70076	15	R	1..1	
9.1	message type	ID	HL70076	3	R	..	e.g. ADT
9.2	trigger event	ID	HL70003	3	R	..	e.g. A01
9.3	message structure	ID	HL70354	7	O	..	e.g. ADT_A01
10	Message Control ID	ST		20	R	1..1	e.g. 00000001
11	Processing ID	PT		3	R	1..1	
11.1	processing ID	ID	HL70103	3	R	..	e.g. P
12	Version ID	VID	HL70104	973	R	1..1	
12.1	version ID	ID	HL70104	60	R	..	e.g. 2.4
21	Conformance Statement ID	ID		10	O	0..*	

## 1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2-encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message.

Recommended value and used by Agfa is |, (ASCII 124).

## 2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator.

Recommended values and used by Agfa

Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

## 3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise.

Entirely site-defined and a parameter for Agfa.

## 7. Date/Time Of Message

This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone !

### 9.3. message structure

Only used when input is hl7 v2.xml

## 10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA).

### 11.1. processing ID

No difference in processing by HL7SERVER5 if Production or Test

### 12.1. version ID

Versions supported by HL7SERVER5 are 2.2, 2.3, 2.3.1, 2.4

## **EVN - Event Type**

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Event Type Code	ID		3	O	0..1	e.g. A01
2	Recorded Date/Time	TS		26	R	1..1	
2.1	Date/Time	NM		24	R	..	e.g. 200511070945
4	Event Reason Code	IS	HL70062	3	O	0..1	e.g. 2
6	Event Occurred	TS		26	O	0..1	
6.1	Date/Time	NM		24	R	..	e.g. 200511070945

## 6. Event Occurred

Contains the startdate form the transfer.

## **PID - Patient identification**

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
3	Patient Identifier List	CX		1913	R	1..*	
3.1	ID	ST		20	R	..	e.g. 1234567
3.2	Check digit	ST		200	O	..	e.g. 4
3.3	code identifying the check digit scheme employed	ID	HL70061	200	O	..	e.g. M11
3.4	assigning authority	HD		603	O	..	
3.4.1	namespace ID	IS		200	O	..	e.g. HIS1
3.4.2	universal ID	ST		200	O	..	
3.4.3	universal ID type	ID		200	O	..	
3.5	identifier type code (ID)	ID	HL70203	200	O	..	e.g. MR
3.6	assigning facility	HD		603	O	..	
3.6.1	namespace ID	IS		200	O	..	e.g. FACILITY1
3.6.2	universal ID	ST		200	O	..	
3.6.3	universal ID type	ID		200	O	..	
3.7	effective date (DT)	DT		24	O	..	e.g. 20051107
3.8	expiration date	DT		24	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. Yarmey
5.2	given name	ST		30	O	..	e.g. Jane
5.3	second and further given names or initials thereof	ST		30	O	..	e.g. C
5.4	suffix (e.g., JR or III)	ST		15	O	..	
5.5	prefix (e.g., DR)	ST		100	O	..	e.g. DR.
7	Date/Time Of Birth	TS		26	O	0..1	
7.1	Date/Time	NM		24	R	..	e.g. 19931022
8	Administrative Sex	IS	HL70001	1	O	0..1	e.g. F
9	Patient Alias	XPN		1103	U	0..*	
11	Patient Address	XAD		631	O	0..*	
11.1	street address (SAD)	SAD		319	O	..	
11.1.1	street or mailing address	ST		254	O	..	e.g. Kortrijksesteenweg 250
11.2	other designation	ST		254	O	..	e.g. Building A
11.3	city	ST		30	O	..	e.g. Sint Martens Latem
11.4	state or province	ST		20	O	..	e.g. OVL
11.5	zip or postal code	ST		20	O	..	e.g. 9831
11.6	country	ID		20	O	..	e.g. BEL
13	Phone Number - Home	XTN		850	O	0..1	
13.1	[(999)] 999-9999 [X99999][C any text]	TN		30	O	..	
16	Marital Status	CE	HL70002	483	O	0..1	
16.1	identifier	ST		10	O	..	e.g. M
19	SSN Number - Patient	ST		50	O	0..1	e.g. 19931022175

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
23	Birth Place	ST		30	O	0..1	e.g. Deinze
28	Nationality	CE	HL70212	483	U	0..*	

### 3. Patient Identifier List

Patient Identifier (list) which UNIQUELY identifies a single patient.

The combination of components ID and Assigning Authority should be sufficient to UNIQUELY identify a patient.

Each identifier occurrence (!) specified in PID-3 (combination of ID & Assigning Authority) should be globally unique.

#### 3.4. assigning authority

Authority/System that generated the patient identifier

#### 3.6. assigning facility

Facility in which the patient identifier was generated

### 5. Patient Name

Patient name - no repetitions allowed!

### 7. Date/Time Of Birth

Patient birth date - is a required field in the RIS database

### 9. Patient Alias

ONLY TYPE P is supported and only when COUNTRY - COUNTRY parameter is N and ApplyCountrySpecificNameRules is true

### 11. Patient Address

The occurrence that has an address type (PID-11-7) of P or M or blank is considered the main address and is stored in the PATIENTS table.

ALL occurrences are stored in PAT\_ADDRESSES.

#### 11.1. street address (SAD)

First address line

#### 11.2. other designation

Second address line

#### 11.6. country

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

Suggested to use 3 character ISO codes.

### 13. Phone Number - Home

Patients primary phone number - only the first occurrence is used !

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

RIS version < 560: max length = 15

### 19. SSN Number - Patient

Social security number

### 28. Nationality

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

## PV1 - Patient visit

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Set ID - PV1	SI		4	O	0..1	e.g. 1
2	Patient Class	IS	HL70004	1	R	1..1	e.g. I
3	Assigned Patient Location	PL		1230	O	0..1	
3.1	point of care	IS		25	O	..	e.g. U31
3.2	room	IS		8	O	..	e.g. 310
3.3	bed	IS		25	O	..	e.g. A
3.4	facility (HD)	HD		223	O	..	
3.4.1	namespace ID	IS		15	O	..	e.g. FACILITY1
4	Admission Type	IS		2	O	0..1	e.g. R
6	Prior Patient Location	PL		1230	O	0..1	
6.1	point of care	IS	HL70302	3	O	..	
7	Attending Doctor	XCN	HL70010	3002	O	0..1	
7.1	ID number (ST)	ST		15	O	..	e.g. 759
7.2	family name	FN		184	O	..	
7.2.1	surname	ST		40	O	..	e.g. Rudjord
7.3	given name	ST		30	O	..	e.g. Anders
16	VIP Indicator	IS		2	O	0..1	e.g. N
18	Patient Type	IS		10	O	0..1	e.g. H1
19	Visit Number	CX		1913	R	1..1	
19.1	ID	ST		20	R	..	e.g. 200411143
19.4	assigning authority	HD		258	O	..	
19.4.1	namespace ID	IS		50	O	..	e.g. HIS1
21	Charge Price Indicator	IS	HL70032	10	O	0..1	e.g. 1
44	Admit Date/Time	TS		26	O	0..1	
44.1	Date/Time	NM		24	R	..	e.g. 200511070945
45	Discharge Date/Time	TS		26	O	0..1	
45.1	Date/Time	NM		24	O	..	
47	Total Charges	NM		10	O	0..1	e.g. 1000

## 2. Patient Class

TRANSFERS.TR\_PATTYPE translated to

Case "E","A"

MapPatientClass = "O"

Case "H", "I", "J", "L", "N", "P", "Z"

MapPatientClass = "I"

Case "U"

MapPatientClass = "E"

Case "S"

MapPatientClass = "R"

Case Else

MapPatientClass = "I"

**3.1. point of care**

Care unit where the patient resides.

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

**3.4. facility (HD)**

Facility where the patient resides - encouraged to use this field - certainly in a multi-site implementation.

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

**6. Prior Patient Location**

Only used for lookup of prior transfer - not stored in the database

**6.1. point of care**

Only used for lookup of prior transfer - not stored in the database

**7.1. ID number (ST)**

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

**16. VIP Indicator**

If there is no value in PV1-16 or the value = "", patients.p\_vip = N

If patients.p\_vip = TRUE (Y):

The patient item VIP\_INDICATOR will contain the value of the constant HL7\_VIP\_INDICATOR. If this constant doesn't exist, the value of PV1-16 is used

**18. Patient Type**

In a multi-site environment with multiple HIS systems, make sure that each HIS is using the same code-set.

**19. Visit Number**

Required field for Agfa RIS when exchanging visit information Identifier generated per patient stay in a facility.

In a multi-site environment with multiple HIS systems make sure the component Assigning Authority is provided

**19.4. assigning authority**

Encouraged to use this component in a multi-site environment

**44. Admit Date/Time**

Admission date/time

**47. Total Charges**

Stored as patient extra info