

HL7 Conformance Profile

ADT A40 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

- Message Type: ADT
- Trigger Event: A40
- Message Structure: ADT_A39
- Topics: confsig-AGFA-2.3.1-static-ADT-A40-null-ADT_A39---Sender

Message structure

MSH EVN PID MRG

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
18	Character Set	ID	HL70211	16	O	0..*	e.g. 8859/1
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

18. Character Set

Character set has to be a subset of the Windows ANSI codepage of the pc where HL7SERVER5 is running !

e.g. ISO 8859/1 on a windows 1252 code page UTF-8 is not supported !

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	..	
3.8	expiration date	DT		1	CE	..	
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
18	Patient Account Number	CX		1913	O	0..1	
18.1	ID	ST		1	O	..	e.g. 2590852

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

8. Administrative Sex

M, F or U

18. Patient Account Number

Account number (billing) will be linked to the visit number (PV1-19).

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

MRG - Merge patient information

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Prior Patient Identifier List	CX		1913	R	1..*	
1.1	ID	ST		3	R	..	
1.3	code identifying the check digit scheme employed	ID	HL70061	3	O	..	
1.4	assigning authority	HD		11	O	..	
1.4.1	namespace ID	IS	HL70363	3	O	..	
1.4.2	universal ID	ST		3	O	..	
1.4.3	universal ID type	ID	HL70301	3	O	..	
1.5	identifier type code (ID)	ID	HL70203	3	O	..	
1.6	assigning facility	HD		11	O	..	
1.6.1	namespace ID	IS	HL70363	3	O	..	
1.6.2	universal ID	ST		3	O	..	
1.6.3	universal ID type	ID	HL70301	3	O	..	
1.7	effective date (DT)	DT		3	O	..	
1.8	expiration date	DT		3	O	..	
7	Prior Patient Name	XPN		1103	O	0..*	
7.1	family name	FN		19	O	..	
7.1.1	surname	ST		3	O	..	
7.1.2	own surname prefix	ST		3	O	..	
7.1.3	own surname	ST		3	O	..	
7.1.4	surname prefix from partner/spouse	ST		3	O	..	
7.1.5	surname from partner/spouse	ST		3	O	..	
7.2	given name	ST		3	O	..	
7.3	second and further given names or initials thereof	ST		3	O	..	
7.4	suffix (e.g., JR or III)	ST		3	O	..	
7.5	prefix (e.g., DR)	ST		3	O	..	
7.6	degree (e.g., MD)	IS	HL70360	3	O	..	
7.7	name type code	ID	HL70200	3	O	..	
7.8	Name Representation code	ID	HL70465	3	O	..	
7.9	name context	CE	HL70448	20	O	..	
7.9.1	identifier	ST			O	..	

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
7.9.2	text	ST		3	O	..	
7.9.3	name of coding system	IS	HL70396	3	O	..	
7.9.4	alternate identifier	ST		3	O	..	
7.9.5	alternate text	ST		3	O	..	
7.9.6	name of alternate coding system	IS	HL70396	3	O	..	
7.11	name assembly order	ID	HL70444	3	O	..	