

HL7 Conformance Profile

ADT Inbound A44

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About this Conformance Profile

HL7Server5 - Release 2005.1.4 - Conformance profile ADT Inbound

History:

2005-11-05 - Creation - Nico Vannieuwenhuyze

Remarks:

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message. For certain events (eg A40) this can take a few seconds, so please configure the sending application to wait eg 180 seconds for an acknowledgment.

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: 2.4
- Profile Type: Constrainable
- Topics: confsig-AGFA/QUADRAT-2.4-profile-accNE_accAL-Deferred

Encoding Method

ER7

Interaction 1

Dynamic Definition

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

Static Definition

- Event Description: ADT/ACK - Move account information - patient account number
- Message Type: ADT
- Trigger Event: A44
- Message Structure: ADT_A43
- Topics: confsig-AGFA/QUADRAT-2.4-static-ADT-A44-null-ADT_A43-2005.1.4--Receiver

Message structure

MSH EVN { PID [PD1] 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 |
| 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. A44 |
| 9.3 | message structure | ID | HL70354 | 7 | O | .. | e.g. ADT_A43 |
| 10 | Message Control ID | ST | | 20 | R | 1..1 | e.g. 0000001 |
| 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. Message Type

Should be ADT^A01^ADT_A01 for an admission notification

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. A43 |
| 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 |

1. Event Type Code

If empty the value is taken from MSH-9-1

2. Recorded Date/Time

Only used when EVN-6 Event Occurred is empty

6. Event Occurred

This field contains the date/time that the event actually occurred. For example, on a transfer (A02 (transfer a patient)), this field would contain the date/time the patient was actually transferred. On a cancellation event, this field should contain the date/time that the event being canceled occurred.

Segment group: G1R

- Usage: Required

- Cardinality:1..*

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. 1234567 |
| 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 | .. | |
| 4 | Alternate Patient ID - PID | CX | | 1913 | O | 0..1 | |
| 4.1 | ID | ST | | 20 | O | .. | e.g. 1234567 |
| 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. |
| 6 | Mother's Maiden Name | XPN | | 1103 | O | 0..1 | |
| 6.1 | family name | FN | | 174 | O | .. | |
| 6.1.1 | surname | ST | | 30 | O | .. | |
| 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 | O | 0..1 | |
| 9.1 | family name | FN | | 174 | O | .. | |
| 9.1.1 | surname | ST | | 30 | O | .. | e.g. Simmons |
| 9.2 | given name | ST | | 15 | O | .. | e.g. Neil |
| 9.3 | second and further given names or initials thereof | ST | | 3 | O | .. | |

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|--------|---------------------------------------|------|---------|------|------|-------|----------------------------|
| 9.4 | suffix (e.g., JR or III) | ST | | 3 | O | .. | |
| 9.5 | prefix (e.g., DR) | ST | | 30 | O | .. | |
| 9.6 | degree (e.g., MD) | IS | HL70360 | 3 | O | .. | |
| 9.7 | name type code | ID | HL70200 | 3 | O | .. | e.g. P |
| 9.8 | Name Representation code | ID | HL70465 | 3 | O | .. | |
| 9.9 | name context | CE | HL70448 | 20 | O | .. | |
| 9.9.1 | identifier | ST | | | O | .. | |
| 9.9.2 | text | ST | | 3 | O | .. | |
| 9.9.3 | name of coding system | IS | HL70396 | 3 | O | .. | |
| 9.9.4 | alternate identifier | ST | | 3 | O | .. | |
| 9.9.5 | alternate text | ST | | 3 | O | .. | |
| 9.9.6 | name of alternate coding system | IS | HL70396 | 3 | O | .. | |
| 9.11 | name assembly order | ID | HL70444 | 3 | O | .. | |
| 10 | Race | CE | HL70005 | 483 | O | 0..1 | |
| 10.1 | identifier | ST | | 40 | O | .. | e.g. 2106-3 |
| 11 | Patient Address | XAD | | 631 | O | 0..* | |
| 11.1 | street address (SAD) | SAD | | 318 | O | .. | |
| 11.1.1 | street or mailing address | ST | | 254 | O | .. | e.g. Kortrijksesteenweg |
| 11.2 | other designation | ST | | 254 | O | .. | e.g. 254 |
| 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. BE |
| 11.7 | address type | ID | HL70190 | 10 | O | .. | e.g. P |
| 13 | Phone Number - Home | XTN | | 850 | O | 0..1 | |
| 13.1 | [(999)] 999-9999 [X99999][C any text] | TN | | 30 | O | .. | |
| 13.5 | Country Code | NM | | 15 | O | .. | e.g. 32 |
| 13.6 | Area/city code | NM | | 15 | O | .. | e.g. 3 |
| 13.7 | Phone number | NM | | 15 | O | .. | e.g. 4448150 |
| 13.8 | Extension | NM | | 15 | O | .. | e.g. 500 |
| 14 | Phone Number - Business | XTN | | 850 | O | 0..1 | |
| 14.1 | [(999)] 999-9999 [X99999][C any text] | TN | | 30 | O | .. | e.g. 024448150 |
| 15 | Primary Language | CE | | 483 | O | 0..1 | |
| 15.1 | identifier | ST | | 20 | O | .. | e.g. EN |
| 16 | Marital Status | CE | HL70002 | 483 | O | 0..1 | |
| 16.1 | identifier | ST | | 10 | O | .. | e.g. M |
| 17 | Religion | CE | HL70006 | 483 | O | 0..1 | |
| 17.1 | identifier | ST | | 40 | O | .. | |
| 17.2 | text | ST | | 40 | O | .. | |
| 18 | Patient Account Number | CX | | 1913 | O | 0..1 | |
| 18.1 | ID | ST | | 30 | O | .. | e.g. 2590852 |
| 18.4 | assigning authority | HD | | 257 | O | .. | |

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|--------|-----------------------------|------|---------|------|------|-------|------------------|
| 18.4.1 | namespace ID | IS | | 50 | O | .. | e.g. HIS1 |
| 18.7 | effective date (DT) | DT | | 24 | O | .. | e.g. 20051107 |
| 18.8 | expiration date | DT | | 24 | O | .. | |
| 19 | SSN Number - Patient | ST | | 50 | O | 0..1 | e.g. 19931022175 |
| 21 | Mother's Identifier | CX | | 1913 | O | 0..1 | |
| 21.1 | ID | ST | | 40 | O | .. | e.g. 1234560 |
| 22 | Ethnic Group | CE | HL70189 | 483 | O | 0..1 | |
| 22.1 | identifier | ST | | 40 | O | .. | |
| 23 | Birth Place | ST | | 30 | O | 0..1 | e.g. Deinze |
| 24 | Multiple Birth Indicator | ID | HL70136 | 1 | O | 0..1 | e.g. Y |
| 25 | Birth Order | NM | | 2 | O | 0..1 | e.g. 2 |
| 26 | Citizenship | CE | HL70171 | 483 | O | 0..1 | |
| 26.1 | identifier | ST | | 20 | O | .. | e.g. BE |
| 28 | Nationality | CE | HL70212 | 483 | O | 0..1 | |
| 28.1 | identifier | ST | | 20 | O | .. | e.g. BE |
| 29 | Patient Death Date and Time | TS | | 26 | O | 0..1 | |
| 29.1 | Date/Time | NM | | 24 | O | .. | |
| 30 | Patient Death Indicator | ID | HL70136 | 1 | O | 0..1 | e.g. N |

2. Patient ID

Please use PID-3 and map them using the parameters PIDDomainForCode, PIDDomainForHISCode ... to the PATIENTS.xxx columns

3. Patient Identifier List

Patient Identifier (list) which UNIQUELY identifies a single patient. Combination of components ID and Assigning Authority should be sufficient to UNIQUELY identify a patient.

3.4. assigning authority

Authority/System that generated the patient identifier

3.6. assigning facility

Facility in which the patient identifier was generated

4. Alternate Patient ID - PID

Please use PID-3 and map them using the parameters PIDDomainForCode, PIDDomainForHISCode ... to the PATIENTS.xxx columns

5. Patient Name

Patient name - no repetitions allowed!

6. Mother's Maiden Name

Sometimes used in France to exchange the patients maiden name

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.

11.6. country

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

11.7. address type

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

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

14. Phone Number - Business

Additional (second) phone number

14.1. [(999)] 999-9999 [X99999][C any text]

RIS version < 560: max length = 15

16.1. identifier

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

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 !

19. SSN Number - Patient

Social security number

21. Mother's Identifier

ID of the mother in case of a newborn

28. Nationality

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

PD1 - patient additional demographic

- Usage: Optional

- Cardinality: 0..1

- Implementation note: Additional patient information like primary care physician

| Seq. | Name | Type | Table | Len. | Opt. | Card. | Contents |
|-------|---|------|---------|------|------|-------|-----------|
| 4 | Patient Primary Care Provider Name & ID No. | XCN | | 3002 | O | 0..1 | |
| 4.1 | ID number (ST) | ST | | 20 | O | .. | e.g. 1282 |
| 4.2 | family name | FN | | 184 | O | .. | |
| 4.2.1 | surname | ST | | 40 | O | .. | e.g. Pew |
| 4.3 | given name | ST | | 30 | O | .. | e.g. John |
| 11 | Publicity Code | CE | HL70215 | 483 | O | 0..1 | |
| 11.1 | identifier | ST | | 40 | O | .. | e.g. EMP |

4.1. ID number (ST)

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

11. Publicity Code

Used to indicate that a patient is a member of the facility personnel

11.1. identifier

Only EMP supported

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 | | 20 | R | .. | e.g. 523523 |
| 1.4 | assigning authority | HD | | 407 | O | .. | |
| 1.4.1 | namespace ID | IS | | 200 | O | .. | e.g. HIS1 |
| 1.6 | assigning facility | HD | | 407 | O | .. | |
| 1.6.1 | namespace ID | IS | | 200 | O | .. | e.g. FACILITY1 |
| 3 | Prior Patient Account Number | CX | | 1913 | R | 1..1 | |
| 3.1 | ID | ST | | 30 | R | .. | e.g. 5425532 |
| 3.4 | assigning authority | HD | | 257 | O | .. | |
| 3.4.1 | namespace ID | IS | | 50 | O | .. | e.g. HIS1 |
| 4 | Prior Patient ID | CX | | 1913 | O | 0..1 | |
| 4.1 | ID | ST | | 3 | O | .. | |
| 4.3 | code identifying the check digit scheme employed | ID | HL70061 | 3 | O | .. | |
| 4.4 | assigning authority | HD | | 11 | O | .. | |
| 4.4.1 | namespace ID | IS | HL70363 | 3 | O | .. | |
| 4.4.2 | universal ID | ST | | 3 | O | .. | |
| 4.4.3 | universal ID type | ID | HL70301 | 3 | O | .. | |
| 4.5 | identifier type code (ID) | ID | HL70203 | 3 | O | .. | |
| 4.6 | assigning facility | HD | | 11 | O | .. | |
| 4.6.1 | namespace ID | IS | HL70363 | 3 | O | .. | |
| 4.6.2 | universal ID | ST | | 3 | O | .. | |
| 4.6.3 | universal ID type | ID | HL70301 | 3 | O | .. | |
| 4.7 | effective date (DT) | DT | | 3 | O | .. | |
| 4.8 | expiration date | DT | | 3 | O | .. | |

End of segment group G1R