

ADT (ADMIT / DISCHARGE / TRANSFER)

The ADT" message type will be used to transmit admission/patient demographic information from the facilities host EMR system to the AudBase Server. Several (incoming) admission events are supported by the interface (refer to the HL7 acceptable events table). Many admission messages may share the same message format. When a subsequent message shares the same segment combinations as a previous one, AudBase will update the fields in the database to reflect the newer message. The "trigger event" or "event" code (e.g., A01 = admit, A04 = register) found in the Message Header Segment and in the Event Segment define the type of admission message (admission, transfer, discharge, etc.). These events will be detailed in the "HL7 acceptable events" detail list found in this documentation.

SEGMENT/ GROUP	NAME	OPTIONAL
MSH	Message header	Required
EVN	Event Type	Required
PID	Patient identification	Required
PID1	Patient demographics	Optional
NK1	Next of Kin	Optional CF
Patient Visit Group – part of Patient Group		
PV1	Patient visit	Required
PV2	Patient visit – additional info	Optional
DG1	Diagnosis Information	Optional

R Mandatory Segments /Groups included by AudBase in the result message.

Optional — Optional fields that may be included if noted in the message design form at no additional charge.

Optional CF— Optional fields that may be requested to be included in message, which may require an additional customization fee.

(ADT) ADMIT / DISCHARGE / TRANSFER

Message Header

Element number 1 2 3 4 5 6 7 8 9 10 11 12
MSH|^~\&|AudBase|1|EMR||20050110045504||ADT^A01|599102|P|2.3|||

Event

Element number 1 2 3 4 5 6 7
EVN|A01|20050110045502|||

PID — Patient Identification

Element number 1 2 3 4 5 6 7 8 9
PID|1||H1686001|^CRISTIANA^AMMAR|HERMIS^SAVLEEN|20110604|F|YAKYAKA

Element number 10 11
^CRISTIANA|Other|1127 EEEEEED AVE^^EL CAAON^CA^92020-7362

Element number 12 13
^USA^^^SAN DIEGO|SAN DIEGO|(XXX)XXX-9287 ^^^^XXX^XXX-9287

Element number 14 15 16 17 18 19 20 21
||Single||81637928|999-99-9999||HERMIS^SAVLEEN||

PV1 — Patient Visit

Element number 1 2 3 4 5 6 7 8
PV1||OUTPATIENT|AUDIOLOGY MAIN^^^10|||1011

Element number 8 9 18 19 20 25 30 35 40 43
^YOSIMITES^SAMS|||81637928|||

Element number 44 45 49
201404290856|||

MSH — Message Header

The HL7 MSH (Message Header) segment is present in every HL7 message type and defines the message's source, purpose, destination and character sets. It is always the first segment in a single HL7 message. AudBase will make use of header information such as Event Type, Date and Time, location origin of message, sending application (HIS) and Message Control ID.

Message Header

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Element number  1  2          3          4 5 6          7          8          9          10  11  12  13  15
                MSH|^~\&|Host EMR|1|||20050110045504||ADT^A01|599102|P|2.3|||EVN

Element number  16          17          18  21
                |A01|20050110045502|||
    
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SEQ	Format	Option	Element / Field Name
1	ST	R	Field Separator
2	ST	R	Encoding Characters
3	HD	R	Sending Application
4	HD	R	Sending Facility
5	HD	R	Receiving Application
6	HD	O	Receiving Facility
7	TS	R	Date/Time of Message
8	ST	O	Security
9	CM_MSG	R	Message Type
10	ST	R	Message Control Id
11	PT	R	Processing Id
12	ID	R	Version Id
13	NM	O	Sequence Number
14	ST	O	Continuation Pointer
15	ID	O	Accept Acknowledgement Type
16	ID	O	Application Acknowledgement Type
17	ID	O	Country Code
18	ID	O	Character Set
19	CE	O	Principal Language of Message

EVN — Event Message

A trigger event is the underlying reason for transmitting a message. Any change or update in the patient status ,such as patient being admitted or patient changing demographics will cause a trigger event. Even though the standard itself doesn't explicitly define a sequence in which these trigger events occur, it seems clear that normally a patient has to be admitted (A01) before he or she can be transferred (A02) and discharged (A03). As soon as the appropriate trigger happens a message is sent to AudBase. Several (incoming) admission events are supported by the AudBase interface. Event details are contained within the Event segment of the ADT.

ADT trigger events that AudBase will process:

EVENT	TRIGGER	TRIGGER DESCRIPTION
A01	Admit notification	an inpatient encounter has started. The patient has been admitted and has been assigned to a location (room or bed)
A02	Transfer notification	a patient has been transferred from one location to another one.
A04	Patient registration notification	an outpatient encounter has started
A05	Pre-admit a patient notification	the pre-admission process of a patient has started; registration of a non-admitted patient
A08	Update patient information notification	unspecified details of the encounter or the patient demographics data have changed. This trigger event represents a "other changes" category if a more suitable Axx trigger event doesn't exist
A28	Addition to person demographics / information	Addition of information to the patient demographics , which will appear in the PID segment in the message.
A31	Update of person demographics / information	Update / change of information to the PID segment in the message which is reflected in the patient demographics

Event

Element number 1 2 3 4 5 6 7
 EVN | A01 | 20050110045502 | | | | |

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "EVN"
1	ID	R	Event Type Code
2	TS	R	Recorded Date/Time
3	TS	0	Date/Time Planned Event
4	IS	0	Event Reason Code
5	CN	0	Operator ID
6	TS	0	Event Occurred

PID — Patient Identification Segment

The PID segment is found in every ORM message and contains 30 different fields with values ranging from patient ID number, to address, to marital status. The PID segment provides important identification information about the patient and is used as the primary means of communicating the identifying and demographic information about a patient between systems. AudBase will make use of the pertinent demographics within the PID Segment

PID — Patient Identification Segment

Element number 1 2 3 4 5 6 7 8 9 10
 PID|1||10006579^^^1^MRN^1||DUCK^DONALD^D||19241010|M||1|111 DUCK
Element number 11 12 13 14 15 18
 ST^^FOWL^CA^999990000^^M|1|8885551212|8885551212|1|2||40007716^^^AudBase^VN^1
Element number 19 21 25 30
 |123121234||| || || || || || || || NO

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "PID"
1	SI	0	Set ID - Patient ID
2	CX	0	Patient ID (External ID)
3	CX	R	Patient ID (Internal ID)
4	CX	0	Alternate Patient ID - PID
5	PN	R	Patient Name
6	PN	0	Mother's Maiden Name
7	TS	R	Date/Time of Birth
8	IS	R	Sex
9	PN	0	Patient Alias
10	IS	R	Race
11	AD	0	Patient Address
12	IS	0	County Code
13	TN	0	Phone Number - Home
14	TN	0	Phone Number - Business
15	CE	0	Primary Language
16	IS	0	Marital Status
17	IS	0	Religion
18	CX	R	Patient Account Number
19	ST	0	SSN Number - Patient
20	ST	0	Driver's License Number - Patient
21	CX	0	Mother's Identifier
22	IS	0	Ethnic Group
23	ST	0	Birth Place
24	ID	0	Multiple Birth Indicator
25	NM	0	Birth Order
26	IS	0	Citizenship
27	CE	0	Veterans Military Status
28	CE	0	Nationality
29	TS	0	Patient Death Date and Time
30	ID	0	Patient Death Indicator

PV1 — Patient Visit

The PV1 Patient Visit segment contains information about the encounter (a.k.a. Visit). This segment includes ,amongst other things, the type of encounter, its start/end date and time, the admitting and attending physicians. AudBase will use data from this message to populate fields within the provider table of the AudBase database.

PV1 — Patient Visit																															
Element number	1	2	3	4	5	6	7																								
	PV1		I		Audiology	^	101	^	1	^	1	^	^	S		3			37	^	DISNEY	^	WALT	^	^	^	^	^	AudBase	^	^
Element number	8	9	10	14			17		18	19																					
	^	^	CI				01																								
							37	^	DISNEY	^	WALT	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^
Element number	20	25	30	35	39	40	43	44	45	49																					
	^	AudBase	^	VN		4																									

SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "PV1"
1	SI	O	Set ID - PV1
2	IS	R	Patient Class
3	PL	R	Assigned Patient Location
4	IS	O	Admission Type
5	CX	O	Pre-admit Number
6	PL	O	Prior Patient Location
7	CN	R	Attending Doctor
8	CN	R	Referring Doctor
9	CN	O	Consulting Doctor
10	IS	O	Hospital Service
11	PL	O	Temporary Location
12	IS	O	Pre-admit test Indicator
13	IS	O	Readmission Indicator
14	IS	O	Admit Source
15	IS	O	Ambulatory Status
16	IS	O	VIP Indicator
17	CN	O	Admitting Doctor
18	IS	O	Patient Type
19	CX	O	Visit Number
20	FC	O	Financial Class
21	IS	O	Charge Price Indicator
22	IS	O	Courtesy Code
36	IS	O	Discharge Disposition
37	CM	O	Discharged to Location
38	IS	O	Diet Type
42	PL	O	Pending Location
43	PL	O	Prior Temporary Location
44	TS	O	Admit Date/Time
45	TS	O	Discharge Date/Time
46	NM	O	Current Patient Balance
47	NM	O	Total Charges
48	NM	O	Total Adjustments
49	NM	O	Total Payments
50	CX	O	Alternate Visit ID
51	IS	O	Visit Indicator
52	CN	O	Other Healthcare Provider

SEQ #s 23-35 are related to financial transactions and are not included in this list of elements as options. If financial information is required please reflect in order form

DG1 — Diagnosis

In this case the DG1 segment is used to instruct the test/s, such as Audiogram, Tympanogram etc., needed for a patient diagnosis. All diagnosis will be transmitted individually. If there is a new diagnosis, or a change in any of the diagnoses, they should all be retransmitted to the interface. AudBase will employ elements such as DG

DG1 — Diagnosis

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Element number      1  2                               3
                   DG1|1|DX|XXX.15^audiogram comprehensive, unilateral^DX|
Element number      4                               5 6 7 10 14
                   audiogram comprehensive, unilateral|||||||
    
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SEQ	Format	Option	Element / Field Name
0		R	Segment ID = "DG1"
1	SI	O	Set ID - Diagnosis
2	ID	R	Diagnosis coding method
3	ID	R	Diagnosis code
4	ST	R	Diagnosis description
5	TS	R	Diagnosis date/time
6	ID	O	Diagnosis/DRG type
7	ST	O	Major diagnostic category
8	ID	O	Diagnosis related group (DRG)
9	ID	O	DRG approval indicator
10	ID	O	DRG grouper review code
11	ID	O	Outlier type
12	NM	O	Outlier days
13	NM	O	Outlier cost
14	ST	O	Grouper version and type

OBR|1|20060307110114||003038^Urinalysis^L||20060307110114