



## **InBound ADT Interface Technical Specification**

**MOBILE ASPECTS 2017**

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Interface Implementation HL7 Specification Document	
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Document Name	InBound ADT Interface Technical Specification

Project Information	
Description	This documents list the ADT event types supported by Mobile Aspects
Author	Interface Team
Message Type	ADT
Connection Mode	Server
Port No	5221
Interface Contact	<a href="mailto:interface@mobileaspects.com">interface@mobileaspects.com</a>

Sample Message
MSH ^~\& MA MA  STT   ADT^A05  P 2.3 1  AL  EVN A05 201102241636 PID   504823^^^SMS^MR  PLNAME^FNAME^PMNAME  19910626 M  B P O BOX 1111^^SAMPLESTREET^AL^35046^^^^001  (334)333-3333^PRN^^^^333^3333333  S  5555555 PV1  O Unit^Room^Bed R   01902^ADOCNAME 09210^RDOCNAME 09211^CDOCNAME HEM    OP L  01902^ADMITTING DOCNAME^^^^^SMS C 000004538732 D^20110224~D^20110224             HEMO     201103010000 201103150000     

<b>Note:</b>
Required elements are marked as red/ R in OPT column.
Unused elements are shaded in grey/ U in OPT column.
Optional elements are marked as green/ O in OPT column.

#### Event List

Event Type	Action	Description
ADT^A01	Admit/Visit Notification	This trigger event is used when a patient is admitted to the ADT system
ADT^A02	Transfer a Patient	This trigger event is used when a patient is transferred within the ADT system
ADT^A03	Discharge/End Visit	This trigger event is used when a patient is discharged
ADT^A04	Register a patient	This trigger event is used when a patient is checked into a specific visit or registered for a hospital outpatient Visit within the application
ADT^A05	Pre-admit a patient	This trigger event is used when a patient is pre-admitted to the ADT system
ADT^A06	Change an outpatient to an inpatient	This trigger event is used when a patient is changed from outpatient or emergency to inpatient
ADT^A07	Change an inpatient to an outpatient	This trigger event is used when a patient is changed from inpatient to outpatient or emergency
ADT^A08	Update Patient Information	This trigger event is used when any patient or registration information has changed while the user was working within a specific patient contact, but no other trigger event has occurred
ADT^A09	Patient Departing-Tracking	This trigger is used when an patient has been moved from a permanent location to a temporary location.
ADT^A10	Patient Arriving-Tracking	This trigger event is used when a patient has been moved from a temporary location to a temporary location, a permanent location to a permanent location, or a temporary location to a permanent location.
ADT^A11	Cancel Admit/Visit Notification	This trigger event is used when an admission to the ADT system is canceled.
ADT^A12	Cancel Transfer	This trigger event is used when a transfer within the ADT system is canceled.
ADT^A13	Cancel Discharge/End Visit	This trigger event is used when a discharge from the ADT system is canceled.
ADT^A14	Pending Admit	This trigger event is used when an admission is pended within the ADT system.
ADT^A15	Pending transfer	This trigger event is used when a transfer is pended within the ADT system.
ADT^A16	Pending Discharge	This trigger event is used when a discharge is pended within the ADT system.
ADT^A17	Swap patients	This trigger event is used when two patients are swapped (i.e., change beds) in the ADT system.

Event Type	Action	Description
ADT^A18	Merge patient information	This event can be used for two different purposes: <ul style="list-style-type: none"> <li>• One or more patient identifiers are changed for a single patient. The MRG segment will contain the old identifiers for the patient, and the PID segment will contain the new identifiers for the patient.</li> <li>• Two patients are merged. The MRG segment will contain the identifiers for the patient record that was merged, and the PID segment will contain the identifiers for the target remaining patient record.</li> </ul>
ADT^A25	Cancel pending patient discharge	This event is triggered when a pending discharge is cancelled in the ADT system.
ADT^A26	Cancel pending transfer	This event is triggered when a pending transfer is cancelled in the ADT system
ADT^A27	Cancel pending admit	This event is triggered when a pending admission is cancelled in the ADT system.
ADT^A28	Add person information	This event is triggered whenever a new patient is entered into the Epic system (except via another interface).
ADT^A31	Update person information	This trigger event is used when any patient or registration information has changed independent of any specific patient contact, but no other trigger event has occurred.
ADT^A34	Merge Patient Information(PatientID only)	This trigger event is used when merging or changing patient identifiers. It would be used to change patient identifiers on all of this patient's existing accounts
ADT^A35	Merge Patient Information(Account No only)	This trigger event is used when merging or changing patient account number It would be used to change patient account number on all of this patient's existing accounts
ADT^A36	Merge Patient Information(Account No and PatientID only)	this trigger event is used when merging or changing patient account and identifiers it would be used to change patient account number and PatientID on all of this patient's existing accounts

## Detailed Segment List

Shaded Items in the table are not used by the Mobile Aspects interface.

### MSH- Message Header

Seq	Element Name	OPT	Type	Notes
1	Field Separator	R	ST	Value is typically:
2	Encoding Characters	R	ST	Value is typically: ^~\&
3	Sending Application	R	HD	Format: Free text, configurable
4	Sending Application	R	HD	Format: Free text, configurable
5	Receiving Application	R	HD	Format: Free text, configurable
6	Receiving Facility	R	HD	Format: Free text, configurable
7	Date/Time of Message	R	DTM	
8	Security	O	ST	The user that triggered the interface message is sent in this field
9	Message Type	R	MSG	Format: <Message type>^<Trigger event> Example: ADT^A05
10	Message Control ID	R	ST	Value returned in Acknowledgment message (MSA)
11	Processing ID	R	PT	Values: D – Debugging P – Production T – Training
12	Version ID	U	VID	HL7 version number Example: 2.3
13	Sequence Number	U	NM	Optional field used in the sequence number protocol. By default, Epic does not use sequence number protocol. Format: Numeric
14	Continuation Pointer	U	ST	

### EVN-Event Type

Seq	Element Name	OPT	Type	Notes
1	Event Type Code	U	ID	Event type code Example: A05
2	Recorded Date/Time	U	DTM	Date/time of event Format: Standard HL7 timestamp

**PID – Patient Identification**

seq	Element Name	OPT	Type	Notes
1	Set ID – PID	U	SI	
2	Patient ID(External ID)	O	CX	Case number /Accession ID
3.1	Patient ID(Internal ID)	R	CX	This field should contain the patient's medical record number. This number should be the same each time the same patient is admitted/registered. Ex: ...[50483].
4	Alternate Patient ID – PID	U	CX	
5	Patient Name	R	XPN	This field contains one or more components, the last two components (suffix and prefix) are not used by the interface and will be ignored. Ex: [Last Name]^[FirstName]^[MiddleName]^[Prefix]^[Suffix]
6	Mother's Maiden Name	U	XPN	
7	Date/Time of Birth	R	DTM	This field contains the patient's date of birth.
8	Sex	R	CWE	Valid values: M, F
9	Patient Alias	U	XPN	
10	Race	O	CWE	
11	Patient Address	U	XAD	
12	County Code	U	IS	
13	Phone Number – Home	U	XTN	
14	Phone Number – Work	U	XTN	
15	Primary Language	U	CWE	
16	Marital Status	U	CWE	
17	Religion	U	CWE	
18	Patient Account Number	R	CX	This field contains the unique patient account number assigned by the hospital for each admission/registration. If the same patient is admitted/registered again, the number should be different each time.

**PV1-Patient Visit**

Seq	Element Name	OPT	Type	Notes
1	Set ID – PV1	U	SI	
2	Patient Class	R	CWE	Field values: E - Emergency I - Inpatient O - Outpatient P - Pre-admit
3	Assigned Patient Location	R	PL	Formatting of the subcomponents is configurable. <Unit/Department> ^ <Room> ^ <Bed> ^ <Facility> ^ <Bed Status> ^^ <Building> ^ <Floor> ^
4	Admission Type	U	CWE	
5	Pre-admit Number	U	CX	

Seq	Element Name	OPT	Type	Notes
6	Prior Patient Location	U	CX	Formatting of the subcomponents is configurable. <Unit/Department> ^ <Room> ^ <Bed> ^ <Facility> ^ <Bed Status> ^^ <Building> ^ <Floor> ^
7	Attending Doctor	O	XCN	Format: (preferred) <Provider ID> ^ <Last name> ^ <First name> ^ <Middle initial> ^ ^ ^ ^ ^ <Assigning authority> ^ ^ ^ ^ <Identifier type code>
8	Referring Doctor	O	XCN	Format: (preferred) <Provider ID> ^ <Last name> ^ <First name> ^ <Middle initial> ^ ^ ^ ^ ^ <Assigning authority> ^ ^ ^ ^ <Identifier type code>
9	Consulting Doctor	O	XCN	Format: (preferred) <Provider ID> ^ <Last name> ^ <First name> ^ <Middle initial> ^ ^ ^ ^ ^ <Assigning authority> ^ ^ ^ ^ <Identifier type code>
10	Hospital Service	O	CWE	
11	Temporary Location	U	PL	
12	Pre-admit Test Indicator	U	CWE	
13	Re-admission Indicator	U	CWE	
14	Admit Source	U	CWE	
15	Ambulatory Status	O	CWE	This field indicates any permanent or transient handicapped conditions.
16	VIP Indicator	U	CWE	
17	Admitting Doctor	O	XCN	Format: (preferred) <Provider ID> ^ <Last name> ^ <First name> ^ <Middle initial> ^ ^ ^ ^ ^ <Assigning authority> ^ ^ ^ ^ <Identifier type code>
18	Patient Type	U	CWE	
19	Visit Number	R	CX	This field contains the unique number assigned to each patient visit.
20	Financial Class	U	FC	
21	Charge Price Indicator	U	CWE	
22	Courtesy Code	U	CWE	
23	Credit Rating	U	CWE	
24	Contract Code	U	CWE	
25	Contract Effective Date	U	DT	
26	Contract Amount	U	NM	
27	Contract Period	U	NM	
28	Interest Code	U	CWE	
29	Transfer to Bad Debt Code	U	CWE	
30	Transfer to Bad DebtDate	U	DT	
31	Bad Debt Agency Code	U	CWE	
32	Bad Debt Transfer Amount	U	NM	
33	BadDebtRecovery	U	NM	
34	Delete Account Indicator	U	CWE	

Seq	Element Name	OPT	Type	Notes
35	Delete Account Date	U	DT	
36	Discharge Disposition	U	CWE	
37	Discharge Destination	U	DLD	
38	Diet Type	U	CWE	
39	Servicing Facility	U	CWE	
40	Bed Status	U	CWE	
41	Account Status	U	CWE	
42	Pending Location	U	PL	
43	Prior-Temporary Location	U	PL	
44	Admit Date/Time	R	DTM	This field contains the admit date/time. It is to be used if the event date/time is different than the admit date and time, i.e., a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient registration.
45	Discharge Date/Time	R	DTM	This field contains the discharge date/time. It is to be used if the event date/time is different than the admit date and time, that is, a retroactive update. This field is also used to reflect the date/time of an outpatient/emergency patient discharge.
46	Current Patient Balance	U	NM	
47	Total Charges	U	NM	
48	Total Adjustments	U	NM	
49	Total Payments	U	NM	
50	Alternate Visit ID	U	CX	
51	Visit Indicator	U	CWE	