



InBound SIU Interface Technical Specification

MOBILE ASPECTS 2017

Last Updated: January 01, 2017

Interface Implementation HL7 Specification Document	
Version	5
Date	2017-01-01
Document Name	InBound SIU Interface Technical Specification

Project Information	
Description	This documents list the SIU event types supported by Mobile Aspects
Author	Interface Team
Message Type	SIU
Connection Mode	Server
Port No	5223
Interface Contact	interface@mobileaspects.com

Sample Message	
<pre> MSH ^~\& CR CR MASPECTS 20120814043717 SIU^S13 Q791450795T860672083 P 2.3 SCH XYZ-22-33 ^^121^20120814163000^20120814183100 PID 1 111111^E EMMI LastName^FirstName^MiddleName 19481107 F 2106-3 20000 D^^M C^^11- 2^USA^^JEFFE JEFFE (000)777-666^"" (000)000-0000^^"" ENG W BAP 12345678 N O "" "" "" "" PV1 O OP^PAREG^ 123^AttendingLname^AttendingFname 1234^ReferringL^ReferringF 12345^ConsultL^Con sultF OP A0 123^AdmittingLastName^AdmittingFirstName 2 20060307110111 20060507110111 AIS 1 CD:64588156^LAMINECTOMY LUMBAR DECOMPRESSION WITH ME AIL 1 UAB OR^Main OR511 AIP 1 11009^Okor^Mamerhi^O^^^^^^^EXTERNALID^"" </pre>	

Note:
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
SIU^S12	Notification of New Appointment Booking	This message is generated to inform an external system that a new case has been scheduled.
SIU^S13	Notification of Appointment Rescheduling	This event occurs when user selects to reschedule a case for a different date, time, or operating room. This event can be replaced by sending an S15 followed by an S12 if the receiving system doesn't support S13 events.
SIU^S14	Notification of Appointment Modification	This message is generated by modifications to case status that do not trigger one of the other events. Examples are changing the case status to arrived or completed.
SIU^S15	Notification of Appointment Cancellation	This message is generated when a case is canceled.
SIU^S16	Notification of appointment discontinuation	This message is generated when a case is discontinued.
SIU^S17	Notification of appointment deletion	This message is generated when a case is deleted.
SIU^S18	Notification of addition of service/resource on appointment	This message is generated when a addition of service or resource added to the case.
SIU^S19	Notification of modification of service/resource on appointment	This message is generated when a modification of service or resource done on the case.
SIU^S20	Notification of cancellation of service/resource on appointment	This message is generated when a Cancellation of service or resource on the case.
SIU^S21	Notification of discontinuation of service/resource on appointment	This message is generated when a Discontinuation of service or resource on the case.
SIU^S22	Notification of deletion of service/resource on appointment	This message is generated when a deletion of service or resource on the case.
SIU^S23	Notification of blocked schedule time slot(s)	This message is generated when scheduled time is blocked on the case.
SIU^S24	Notification of opened ("unblocked") schedule time slot(s)	This message is generated when scheduled time is unblocked on the case.
SIU^S26	Notification That Patient Did Not Show Up For Scheduled Appointment	This message is generated when a patient does not check in.

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: SIU^S13
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	

SCH-Schedule Activity Information

Seq	Element Name	OPT	Type	Notes
1	Placer Appointment ID	U	EI	
2	Filler Appointment ID	R	EI	Accession number/CaseID/AppointmentID.
3	Occurrence Number	U	NM	
4	Placer Group Number	U	EI	
5	Schedule ID	U	CWE	
6	Event Reason	U	CWE	Reason for case cancellation/removal and log voiding for the S15 event, reason for check-in cancel for the S14 event, or free text for an S15 in the S15/S12 reschedule event. Format:<ID>^<Text>^<Indication>Indication is CASE for case cancel, CHECKIN for check-in cancel, RESCHEDULE for case reschedule, and LOG for log voiding.
7	Appointment Reason	O	CWE	This field contains CPT code or Reason for study. Format: [ID]^ [Text].
8	Appointment Type	U	CWE	
9	Appointment Duration	U	NM	
10	Appointment Duration Units	U	CNE	Seconds is the default Format: "S" or "MIN"
11	Appointment Timing Quantity	O	TQ	Case date and time Format: ^^CCYYMMDDHHMM

PID – Patient Identification

seq	Element Name		Type	Notes
1	Set ID – PID	U	SI	
2	Patient ID(External ID)	O	CX	
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:[LastName]^[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	

Seq	Element Name		Type	Notes
5	Pre-admit Number	U	CX	
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	

Seq	Element Name	OPT	Type	Notes
34	Delete Account Indicator	U	CWE	
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	O	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	O	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	

AIS – Appointment Information – Service

Seq	Element Name	OPT	Type	Notes
1	Set ID – AIS	U	SI	Incremented for each AIS segment sent. Format: Numeric
2	Segment Action Code	U	ID	
3	Universal Service Identifier	R	CWE	This consists of the Universal Service Identifier and description. Format: <ID>^<Text>
4	Start Date/Time	O	TC	This field contains the start date/time

AIL – Appointment Information – Location Resource

Seq	Element Name	OPT	Type	Notes
1	Set ID – AIL	U	SI	Incremented for each AIL sent. Format: Numeric
2	Segment Action Code	U	ID	
3	Resource ID	R	PL	All HL7 separators will be translated to their corresponding escape sequences. Format: ^<OR>^^<Location>

AIP – Appointment Information – Personnel Resource

Seq	Element Name	OPT	Type	Notes
1	Set ID – AIL	U	SI	Incremented for each AIL sent. Format: Numeric
1	Set ID – AIP	U	S	Incremented for each AIP sent. Format: Numeric
2	Segment Action Code	U	ID	
3	Resource ID	R	XCN	P. All HL7 separators will be translated to their corresponding escape sequences.<Provider ID>^<Lastname>^<Firstname>^<Middlename>^^^^<Assigning authority>^^^^<ID type>