

Anesthesia Touch HL7 SIU Description



Introduction

This document assumes that the reader is familiar with HL7 message format, transmission, and conventions. It describes Plexus Technology Group's (Plexus TG) Anesthesia Touch Platform's support for the common SIU (Scheduling Information Unsolicited) HL7 Messages at a high level.

SIU messages are typically used to populate Anesthesia Touch's Appointment List, allowing clinicians to select patient records from a list of the scheduled cases for that day. Limited additional information may be sent with via the messages.

About the included Segment Tables

The document breaks down supported SIU segments by data field. Each segment table contains information on the HL7 specification as well as information specific to Anesthesia Touch Platform's use of the data fields. These tables have the following columns:

- **HL7 Information (Version 2.6)**
 - **SEQ:** The position of the field in the segment
 - **LEN:** The length of the data field
 - **DT:** The Data Type, refer to HL7 documentation if needed
 - **OPT:** Whether the field is optional or required. Please note that the Anesthesia Touch Platform has additional requirements information for fields: although a field may be optional in the HL7 specification it may be required by the Anesthesia Touch Platform to support the applications
 - **RP#:** Repetition Defines if the field will repeat or the number of times it may repeat
 - **TBL#:** If the data field has a table of values defined, the table identifier is provided. Refer to HL7 documentation if needed
 - **ITEM#:** The HL7 data field's unique identifier
 - **Element Name:** A description of the contents of the data field, which may be elaborated in the Anesthesia Touch Platform Comments
- **Anesthesia Touch Platform Comments**
 - **Req'd:** If the data field is required for Anesthesia Touch functionality, it will be marked "Y" (Yes) if required and "O" if it can be optionally captured
 - **Format:** An example or the requirements for the data field to be processed by the Anesthesia Touch Platform
 - **Comments:** Additional notes on the data field from the perspective of Anesthesia Touch

Inbound SIU Message Format

Plexus TG recognizes the following SIU Message Segments:

Segment	Description	Anesthesia Touch Platform Comments
MSH	Message Header	The sending and receiving application, facility, and date and time are the primary content Anesthesia Touch Platform expects in the Message Header. The message type and control ID as well as the HL7 version are required for processing.
EVN	Event Type Segment	This is no longer typically used and is available for backwards compatibility only.
SCH	Schedule Activity Information Segment	Used for capturing Appointment Information.
NTE	Notes and Comments	This segment is not currently used in the Anesthesia Touch Platform.
PID	Patient Identification Segment	Used for patient information such as Account Number and Medical Record Number. Additional demographics (e.g., address, language) are captured if provided.
PV1	Patient Visit Segment	Required for the patient's admittance date and time and can be used to capture patient and staff information (for the procedure).
AIS	Appointment Information Service Segment	Can be used to capture procedures through the Universal Service Identifier.
DG1	Diagnosis Segment	Can be used to capture the diagnosis, if available.
AIP	Appointment Information Personnel Resource	Can be used to capture the attending doctor.

Supported SIU Inbound Message Types

HL7 Event Type – Unsolicited	Description
SIU^S12	Notification of a New Appointment
SIU^S13	Notification of Appointment Reschedule
SIU^S14	Notification of Appointment Modification
SIU^S15	Notification of Appointment Cancellation

MSH - Message Header

MSH HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	1	T	R			00001	Field Separator	Y		Literal
2	4	ST	R			00002	Encoding Characters	Y	^~\&	Literal
3	227	HD	O		0361	00003	Sending Application	Y	Ex. Registration	
4	227	HD	O		0362	00004	Sending Facility	Y	Ex. TestHospital	
5	227	HD	O		0361	00005	Receiving Application	Y	Plexus	Literal
6	227	HD	O		0362	00006	Receiving Facility	Y	ex. TestHospital	Literal
7	24	DTM	R			00007	Date/Time of Message	Y	YYYYMMDDHHMM	
8	40	ST	O			00008	Security			Not Used
9	15	MSG	R			00009	Message Type	Y	ex. ADT^A04	MessageType^TriggerEventType
10	199	ST	R			00010	Message Control ID	Y		Unique ID for this message
11	3	PT	R			00011	Processing ID			Not Used
12	60	VID	R			00012	Version ID	Y	ex. 2.4	Literal
13	15	NM	O			00013	Sequence Number			Not Used
14	180	ST	O			00014	Continuation Pointer			Not Used
15	2	ID	O		0155	00015	Accept Ack.Type			Not Used
16	2	ID	O		0155	00016	Application Acknowledgment Type			Not Used
17	3	ID	O		0399	00017	Country Code			Not Used
18	16	ID	O	Y	0211	00692	Character Set			Not Used
19	250	CWE	O			00693	Principal Language Of Message			Not Used
20	20	ID	O		0356	01317	Alternate Character Set Handling Scheme			Not Used

MSH HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
21	427	EI	O	Y		01598	Message Profile Identifier			Not Used
22	567	XON	O			01823	Sending Responsible Organization			Not Used
23	567	XON	O			01824	Receiving Resp. Organization			Not Used
24	227	HD	O			01825	Sending Network Address			Not Used
25	227	HD	O			01826	Receiving Network Address			Not Used

EVN – Event Header

EVN HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	3	ID	B		0003	00099	Event Type Code			Not Used
2	24	DTM	R			00100	Recorded Date/Time			Not Used
3	24	DTM	O			00101	Date/Time Planned Event			Not Used
4	3	IS	O		0062	00102	Event Reason Code			Not Used
5	250	XCN	O	Y	0188	00103	Operator ID			Not Used
6	24	DTM	O			01278	Event Occurred			Not Used
7	241	HD	O			01534	Event Facility			Not Used

SCH – Schedule Activity Information

SCH HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	75	EI	C			00860	Placer Appointment ID	O		Optionally captured if available
2	75	EI	C			00861	Filler Appointment ID	O		Optionally captured if available

SCH HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
3	5	NM	C			00862	Occurrence Number			Not Used
4	22	EI	O			00218	Placer Group Number			Not Used
5	250	CWE	O			00864	Schedule ID			Not Used
6	250	CWE	R			00883	Event Reason	O		Optionally captured if available
7	250	CWE	O		0276	00866	Appointment Reason	O		Optionally captured if available
8	250	CWE	O		0277	00867	Appointment Type	O		Optionally captured if available. This is the determining factor for whether or not to process the SIU
9	20	NM	B			00868	Appointment Duration	O		Optionally captured if available
10	250	CNE	B			00869	Appointment Duration Units	O		Optionally captured if available
11	200	TQ	B	Y		00884	Appointment Timing Quantity	O		Optionally captured if available
12	250	XCN	O	Y		00874	Placer Contact Person			Not Used
13	250	XTN	O			00875	Placer Contact Phone Number			Not Used
14	250	XAD	O	Y		00876	Placer Contact Address			Not Used
15	80	PL	O			00877	Placer Contact Location			Not Used
16	250	XCN	R	Y		00885	Filler Contact Person	O		Optionally captured if available. Can be used to capture personnel (e.g., Attending Doctor)
17	250	XTN	O			00886	Filler Contact Phone Number			Not Used
18	250	XAD	O	Y		00887	Filler Contact Address			Not Used
19	80	PL	O			00888	Filler Contact Location			Not Used
20	250	XCN	R	Y		00878	Entered by Person			Not Used
21	250	XTN	O	Y		00879	Entered by Phone Number			Not Used
22	80	PL	O			00880	Entered by Location			Not Used
23	75	EI	O			00881	Parent Placer Appointment ID	O		Optionally captured if available
24	75	EI	C			00882	Parent Filler Appointment ID			Not Used
25	250	CWE	O		0278	00889	Filler Status Code			Not Used

SCH HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
26	427	EI	C	Y		00216	Placer Order Number			Not Used
27	427	EI	C	Y		00217	Filler Order Number			Not Used

NTE – Notes and Comments

NTE HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	O			00096	Set ID - NTE			Not Used
2	8	ID	O		0105	00097	Source of Comment			Not Used
3	65536	FT	O	Y		00098	Comment			Not Used
4	250	CWE	O		0364	01318	Comment Type			Not Used
5	3220	XCN	O			00224	Entered By			Not Used
6	24	DTM	O			00661	Entered Date/Time			Not Used
7	24	DTM	O			01004	Effective Start Date			Not Used
8	24	DTM	O			02185	Expiration Date			Not Used

PID – Patient Identifier Segment

PID HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	O			00104	Set ID - PID	Y	NM	Literal
2	20	CX	B			00105	Patient ID	Y		Alternate ID/Account Number/Patient External ID
3	250	CX	R	Y		00106	Patient Identifier List	Y		MRN
4	20	CX	B	Y		00107	Alternate Patient ID - PID	O		Optionally captured if available. Originating system MRN
5	250	XPN	R	Y	0200	00108	Patient Name	Y	Last^First^Middle	
6	250	XPN	O	Y		00109	Mother's Maiden Name	O		Optionally captured if available
7	24	DTM	O			00110	Date/Time of Birth	Y	YYYYMMDD	

PID HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
8	1	IS	O		0001	00111	Administrative Sex	Y		M – Male F – Female U - Unknown
9	250	XPB	B	Y		00112	Patient Alias			Not Used
10	705	CWE	O	Y	0005	00113	Race	O	Please supply Plexus with lookup table	Optionally captured if available
11	250	XAD	O	Y		00114	Patient Address	O	Line1^Line2^City^State^Zip	Optionally captured if available
12	4	IS	B		0289	00115	County Code			Not Used
13	250	XTN	O	Y		00116	Phone Number - Home	O	(###)###-####	Optionally captured if available
14	250	XTN	O	Y		00117	Phone Number - Business	O	(###)###-####	Optionally captured if available
15	705	CWE	O		0296	00118	Primary Language	O	Please supply Plexus with lookup table	Optionally captured if available
16	705	CWE	O		0002	00119	Marital Status	O		Optionally captured if available
17	705	CWE	O		0006	00120	Religion			Not Used
18	250	CX	O			00121	Patient Account Number	O		Account Number. Optionally captured if available
19	16	ST	B			00122	SSN Number - Patient	O	#####	Optionally captured if available
20	25	DLN	B			00123	Driver's License Number - Patient			Not Used
21	250	CX	O	Y		00124	Mother's Identifier			Not Used
22	705	CWE	O	Y	0189	00125	Ethnic Group			Not Used
23	250	ST	O			00126	Birth Place			Not Used
24	1	ID	O		0136	00127	Multiple Birth Indicator			Not Used
25	2	NM	O			00128	Birth Order			Not Used
26	705	CWE	O	Y	0171	00129	Citizenship			Not Used
27	705	CWE	O		0172	00130	Veterans Military Status			Not Used
28	705	CWE	B		0212	00739	Nationality			Not Used
29	24	DTM	O			00740	Patient Death Date and Time			Not Used
30	1	ID	O		0136	00741	Patient Death Indicator			Not Used
31	1	ID	O		0136	01535	Identity Unknown Indicator			Not Used
32	20	IS	O	Y	0445	01536	Identity Reliability Code			Not Used

PID HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
33	24	DTM	O			01537	Last Update Date/Time			Not Used
34	241	HD	O			01538	Last Update Facility			Not Used
35	705	CWE	C		0446	01539	Species Code			Not Used
36	705	CWE	C		0447	01540	Breed Code			Not Used
37	80	ST	O			01541	Strain			Not Used
38	705	CWE	O	2	0429	01542	Production Class Code			Not Used
39	705	CWE	O	Y	0171	01840	Tribal Citizenship			Not Used

PV1 – Patient Visit

PV1 HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	O			00131	Set ID - PV1	Y	NM	Literal
			R					O		Value: Meaning E: Emergency I: Inpatient O: Outpatient P: Preadmit R: Recurring Pat B: Obstetrics
2	1	IS			0004	00132	Patient Class			Optionally captured if available
3	80	PL	O			00133	Assigned PatientLocation	O		Optionally captured if available
4	2	IS	O		0007	00134	Admission Type			Not Used
5	250	CX	O			00135	Preadmit Number			Not Used
6	80	PL	O			00136	Prior Patient Location	O		Optionally captured if available
7	250	XCN	O	Y	0010	00137	Attending Doctor	O		If for OR appointment, surgeon is the attending doctor. Optionally captured if available
8	250	XCN	O	Y	0010	00138	Referring Doctor	O		Optionally captured if available
9	250	XCN	B	Y	0010	00139	Consulting Doctor			Not Used

PV1 HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
10	3	IS	O		0069	00140	Hospital Service			Not Used
11	80	PL	O			00141	Temporary Location			Not Used
12	2	IS	O		0087	00142	Preadmit Test Indicator			Not Used
13	2	IS	O		0092	00143	Re-admission Indicator			Not Used
14	6	IS	O		0023	00144	Admit Source			Not Used
15	2	IS	O	Y	0099	00145	Ambulatory Status			Not Used
16	2	IS	O		0099	00146	VIP Indicator	O		Optionally captured if available
17	250	XCN	O	Y	0010	00147	Admitting Doctor			Not Used
18	2	IS	O		0018	00148	Patient Type	O		Optionally captured if available
19	250	CX	O			00149	Visit Number	O		Optionally captured if available. Account Number
20	50	FC	O	Y	0064	00150	Financial Class			Not Used
21	2	IS	O		0032	00151	Charge Price Indicator			Not Used
22	2	IS	O		0045	00152	Courtesy Code			Not Used
23	2	IS	O		0046	00153	Credit Rating			Not Used
24	2	IS	O	Y	0044	00154	Contract Code			Not Used
25	8	DT	O	Y		00155	Contract Effective Date			Not Used
26	12	NM	O	Y		00156	Contract Amount			Not Used
27	3	NM	O	Y		00157	Contract Period			Not Used
28	2	IS	O		0073	00158	Interest Code			Not Used
29	4	IS	O		0110	00159	Transfer to Bad Debt Code			Not Used
30	8	DT	O			00160	Transfer to Bad Debt Date			Not Used
31	10	IS	O		0021	00161	Bad Debt Agency Code			Not Used
32	12	NM	O			00162	Bad Debt Transfer Amount			Not Used
33	12	NM	O			00163	Bad Debt Recovery Amount			Not Used
34	1	IS	O		0111	00164	Delete Account Indicator			Not Used
35	8	DT	O			00165	Delete Account Date			Not Used
36	3	IS	O		0112	00166	Discharge Disposition			Not Used
37	47	DLD	O		0113	00167	Discharged to Location			Not Used

PV1 HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
38	705	CWE	O		0114	00168	Diet Type			Not Used
39	2	IS	O		0115	00169	Servicing Facility			Not Used
40	1	IS	B		0116	00170	Bed Status			Not Used
41	2	IS	O		0117	00171	Account Status	O		Optionally captured if available
42	80	PL	O			00172	Pending Location			Not Used
43	80	PL	O			00173	Prior Temporary Location			Not Used
44	24	DTM	O			00174	Admit Date/Time	Y		
45	24	DTM	O			00175	Discharge Date/Time	O		Optionally captured if available
46	12	NM	O			00176	Current Patient Balance			Not Used
47	12	NM	O			00177	Total Charges			Not Used
48	12	NM	O			00178	Total Adjustments			Not Used
49	12	NM	O			00179	Total Payments			Not Used
50	250	CX	O		0203	00180	Alternate Visit ID	O		Optionally captured if available. Account Number
51	1	IS	O		0326	01226	Visit Indicator			Not Used
52	250	XCN	B	Y	0010	01274	Other Provider			Not Used

AIS – Appointment Information Service

AIS HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	R			00890	Set ID - AIS	Y	NM	Literal
2	3	ID	C		0206	00763	Segment Action Code			Not Used
3	705	CWE	R			00238	Universal Service Identifier	O		Used to capture procedures. Optionally captured if available
4	24	DTM	C			01202	Start Date/Time			Not Used
5	20	NM	C			00891	Start Date/Time Offset			Not Used
6	250	CNE	C			00892	Start Date/Time Offset Units			Not Used
7	20	NM	O			00893	Duration			Not Used

8	250	CNE	O			00894	Duration Units			Not Used
9	10	IS	C		0279	00895	Allow Substitution Code			Not Used
10	250	CWE	C		0278	00889	Filler Status Code			Not Used
11	705	CWE	O	Y	0411	01474	Placer Supplemental Service Information			Not Used
12	705	CWE	O	Y	0411	01475	Filler Supplemental Service Information			Not Used

DG1 – Diagnosis

DG1 HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	R			00375	Set ID - DG1	Y	NM	Literal
2			W			00376	Diagnosis Coding Method			Not Used
3	250	CWE	R		0051	00377	Diagnosis Code - DG1			Not Used
4			W			00378	Diagnosis Description	O		Used to capture diagnosis, if available. Optionally captured if available
5	24	DTM	O			00379	Diagnosis Date/Time			Not Used
6	2	IS	R		0052	00380	Diagnosis Type			Not Used
7			W			00381	Major Diagnostic Category			Not Used
8			W			00382	Diagnostic Related Group			Not Used
9			W			00383	DRG Approval Indicator			Not Used
10			W			00384	DRG Grouper Review Code			Not Used
11			W			00385	Outlier Type			Not Used
12			W			00386	Outlier Days			Not Used
13			W			00387	Outlier Cost			Not Used
14			W			00388	Grouper Version And Type			Not Used
15	2	ID	O		0359	00389	Diagnosis Priority			Not Used
16	250	XCN	O	Y		00390	Diagnosing Clinician			Not Used
17	3	IS	O		0228	00766	Diagnosis Classification			Not Used

DG1 HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
18	1	ID	O		0136	00767	Confidential Indicator			Not Used
19	24	DTM	O			00768	Attestation Date/Time			Not Used
20	427	EI	C			01850	Diagnosis Identifier			Not Used
21	1	ID	C		0206	01894	Diagnosis Action Code			Not Used
22	427	EI	C			02152	Parent Diagnosis			Not Used
23	705	CWE	O		0728	02153	DRG CCL Value Code			Not Used
24	20	ID	O		0136	02154	DRG Grouping Usage			Not Used
25	20	IS	O		0731	02155	DRG Diagnosis Determination Status			Not Used
26	1	IS	O		0895	02288	(POA) Indicator			Not Used

AIP – Appointment Information Personnel

AIP HL7 Information								Anesthesia Touch Platform Comments		
SEQ	LEN	DT	OPT	RP#	TBL#	ITEM#	Element Name	Req'd	Format	Comments
1	4	SI	R			00906	Set ID - AIP	Y	NM	Literal
2	3	ID	C		0206	00763	Segment Action code			Not Used
3	250	XCN	C	Y		00913	Personnel Resource ID	O		Used to capture Attending Doctor. Optionally captured if available
4	250	CWE	C		0182	00907	Resource Type	O		Optionally captured if available for personnel
5	250	CWE	O			00899	Resource Group			Not Used
6	24	DTM	C			01202	Start Date/Time			Not Used
7	20	NM	C			00891	Start Date/Time Offset			Not Used
8	250	CNE	C			00892	Start Date/Time Offset Units			Not Used
9	20	NM	O			00893	Duration			Not Used
10	250	CNE	O			00894	Duration Units			Not Used
11	10	IS	C		0279	00895	Allow Substitution Code			Not Used
12	250	CWE	C		0278	00889	Filler Status Code			Not Used