

## CollaborateMD HL7 Implementation Guide

### HL7 Version 2.3.1 Specification

The CollaborateMD HL7 Server supports version 2.3.1 of the HL7 specification. The specification for HL7 version 2.3 is available at <http://www.hl7.org/Special/IG/final.pdf>. Version 2.3.1 has a few changes from its predecessor that will be addressed in this document. The following outlines the elements from the manual that will be used in this implementation.

- Delimiters

Delimiter	Char	Dec	Hex	Descr
Message Prefix	VT	11	0B	Vertical Tab
Message Terminator	FS,CR	28,13	1C,0D	File Separator, Carriage Return
Segment Terminator	CR	13	0D	Carriage Return
Field Separator		124	7C	Pipe
Component Separator	^	94	5E	Caret
Subcomponent Separator	&	38	26	Ampersand
Repetition Separator	~	126	7E	Tilde
Escape Separator	\	92	5C	Backslash

- Data Types

Complex data types have already been broken down in this manual. You can reference the HL7 2.3 specification to see how these types were derived.

- ADT – (A04 & A08) Register Patient/Update Patient

MSH Message Header  
EVN Event Type  
PID Patient Identification  
PD1 Patient Additional Demographic  
NK1 Next Of Kin / Associated Parties  
PV1 Patient Visit  
DG1 Diagnosis  
GT1 Guarantor Information  
ACC Accident Information  
IN1 Insurance Information  
IN2 Insurance Additional Information

- SUI – (S12 & S14 & S15) Appointment Create/Update/Delete

MSH Message Header  
SCH Schedule Activity Information  
NTE Notes and Comments [optional]  
PID Patient Identification  
PD1 Patient Additional Demographic  
NK1 Next Of Kin / Associated Parties  
PV1 Patient Visit  
DG1 Diagnosis  
GT1 Guarantor Information

ACC	Accident Information
IN1	Insurance Information
IN2	Insurance Additional Information
AIG	Appointment Information – General Resource
AIL	Appointment Information – Location Resource

- DFT – (P03) Detailed Financial Transaction
  - MSH Message Header
  - EVN Event Type
  - PID Patient Identification
  - NK1 Next Of Kin / Associated Parties
  - PV1 Patient Visit
  - FT1 Financial Transaction
  - GT1 Guarantor Information
  - IN1 Insurance Information
- ACK - General Acknowledgement [A.4.1.1]
  - MSH Message Header
  - MSA Message Acknowledgement

## Communications Architecture

The following table outlines the HL7 communication methods available:

Method	Transport	Description
Charge Posting	HTTPS	Charge capture and patient info sent directly to our server
Patient Posting	HTTPS	Patient info sent directly to our server
Patient Request	HTTPS	Patient info requested directly from our server
Patient Export	Socket or File	CollaborateMD client can automatically export patient info when patients are created and modified.
Appointment Export	Socket or File	CollaborateMD client can automatically export appointment info when appointments are created or modified.
Charge Import	File	CollaborateMD client can import charge capture files and create claims from them.

Secure HTTP (HTTPS) can be used as a transport for HL7 Messages. The service that will be used to process HL7 messages is a protected resource and requires user authentication. The following steps outline the basic procedure for accessing a protected resource. This process should be used for all HL7 communications.

1. The first step is to connect with the server and obtain a session id. The session id is captured in the HTTP cookie.
  - HTTP GET <https://api.collaboratemd.com>
  - Get the JSESSIONID name-value pair from the “SetCookie” field in the HTTP Response Header. This name-value pair will be added to a variable called <cookie>.
  - The variable <cookie> should now look like JSESSIONID=XXXXX
2. The next step is to authenticate your session.
  - HTTP GET [https://api.collaboratemd.com/j\\_security\\_check?j\\_username=a&j\\_password=b](https://api.collaboratemd.com/j_security_check?j_username=a&j_password=b)
  - The HTTP Request Header should have the field “Cookie” set to the value <cookie>.
  - The username and password should be set in the URL Query replacing <a> and <b> values.
  - Get the JSESSIONID name-value pair from the “SetCookie” field in the HTTP Response Header. This name-value pair will be added to a variable called <cookie>.
  - The variable <cookie> should now look like JSESSIONID=YYYYY
3. Once authenticated, you will be able to access the HL7 server. You may repeat this step as many times as necessary.
  - HTTP POST <https://api.collaboratemd.com/hl7/hl7Server>
  - The HTTP Request Header should have the field “Cookie” set to the value <cookie>.
  - The HTTP Content will be the P03 or A04 message.
  - The HTTP Response will contain the ACK message.
  - Repeat this step for each HL7 message you need to process.
4. Call logout to expire the session id
  - HTTP GET <https://api.collaboratemd.com/logout>
  - The HTTP Request Header should have the field “Cookie” set to the value <cookie>.
  - This will end your session.

## Message Architecture

All messages will have a message header (MSH) and event type (EVN). The message header and event type define the type of transaction that will be processed. In addition, the message header provides the number of the customer account in which the transaction is processed. This customer number is verified against the user that was authenticated by the web server. If this matches then the transaction will continue to be processed.

Three types of messages are accepted by the server: A04/A08 and P03 messages. The A04 message is used to create patient accounts and the A08 is used to update patient accounts. The P03 message is used to create a new claim for a patient. Both the A04/A08 and P03 messages include the PID, PV1, NK1, GT1 and IN1 segments. The PID segment defines patient demographic information on the patient. The PV1 segment defines patient visit information and sets the provider, referring, and facility details on the patient and claim. The GT1 segment defines the guarantor and the IN1 segment defines the insured information. The CollaborateMD program can support up to 3 insurance payers. Saving only 1 or 2 payers to the CollaborateMD program is not a problem.

However, to support 3 insurance payers, the first 2 (primary and secondary payers) must have the same insured person information (i.e. Bob Smith), the last one (tertiary payer) can be the same insured person as the primary and secondary or a different insured person (i.e. Jane Smith). See lines 1 and 2 of the table below.

If there are 3 insurance payers, all with different insured persons or the primary payer has one insured person (i.e. Bob Smith) and the secondary and tertiary payers both have the same person (i.e. Jane Smith), only the primary and secondary payers can be saved. See lines 3 and 4 of the table below.

Primary Payer Insured	Secondary Payer Insured	Tertiary Payer Insured	Saved Payer Info
Bob Smith	Bob Smith	Bob Smith	All 3 saved
Bob Smith	Bob Smith	Jane Smith	All 3 saved
Bob Smith	Jane Smith	John Smith	Only Primary and Secondary
Bob Smith	Jane Smith	Jane Smith	Only Primary and Secondary

The A04 message includes DG1 segments. The DG1 segments are used to define the default ICD codes for the patient. A max of 8 default ICD codes can be defined for a patient.

The P03 message includes the FT1 segment. This segment defines the charge information on a claim. A max of 99 charges can be included on a single claim. Each charge has one CPT and up to 4 ICD codes. Version 2.3.1 was modified to include field 26 on the FT1 segment to support CPT modifiers. Up to 4 modifiers can be specified for a CPT code.

Both A04 and P03 messages transmit information outside of just patient and claim data. Detailed information is also included on referring providers, diagnosis codes, procedure codes and payers. These details can be used to look up objects and create new ones when they do not exist. Information such as facilities, practices and providers are considered static and are not created by HL7 requests. For static members, the CollaborateMD identifier must be used when referencing the object. For dynamic members, external ids may be used. For referring providers, the UPIN will be the identifier. For procedure codes the CPT will be the identifier. For diagnosis codes the ICD will be the identifier. For payers, either the sending system payer id or the CollaborateMD payer id can be used.

The following tables define the specific implementations of the P03 and A04 messages.

- SEG represents the segment name.
- SEQ indicates the field sequence number.
- CMP indicates the component number.
- REP indicates the number of times a field or segment is repeatable. If the number is greater than zero, then it can be repeated the specified number of times. If the sequence is one, the REP indicates that the entire segment can be repeated. If the sequence is not one, the REP indicates that the field is repeated.
- REQ indicates if the field is required.
  - Y means the field is required
  - N means the field is not required
  - S means the field is situational.
- VALUE indicates the expected value of the field. If the field value is fixed, it will be specified in single quotes.
- TYPE indicates the type of the value expected.
- FORMAT indicates the format that the given value must be in.
  - For enumerated types, the value options are given.
  - For dates, the format of the date string is given. Please note that hours must be specified in military time.

## ADT (A04 & A08) Implementation Details (Outbound Message)

SEG	SEQ	CMP	REP	REQ	VALUE	TYPE	FORMAT
MSH	2	0	0Y		'^~\&'	String	
MSH	3	0	0N		Sending App	String	
MSH	4	0	0N		Sending Facility Name	String	
MSH	4	1	0N		Sending Facility ID (External or Internal)	String	
MSH	5	0	0Y		Receiving App 'CollaborateMD'	String	
MSH	6	0	0Y		Customer Name	String	
MSH	6	1	0Y		Customer Number	String	
MSH	7	0	0Y		Date Time of Message	Date	yyyyMMddHHmmss
MSH	9	0	0Y		'ADT'	String	
MSH	9	1	0Y		'A04' or 'A08'	String	
MSH	10	0	0Y		Message Control Number	String	
MSH	11	0	0Y		'P'	String	
MSH	12	0	0Y		'2.3.1'	String	
EVN	1	0	0Y		'A04' or 'A08'	String	
EVN	2	0	0Y		Date Time of Event	Date	yyyyMMddHHmmss
EVN	2	1	0Y		'S'	String	
PID	1	0	0Y		Sequence ID	String	
PID	2	0	0N		Patient Account Number in CollaborateMD	String	
PID	3	0	0N		Patient Account Number in Sending System	String	
PID	4	0	0N		Patient Social Security Number	String	
PID	5	0	0Y		Patient Last Name	String	
PID	5	1	0Y		Patient First Name	String	
PID	5	2	0N		Patient Middle Name/Initial	String	
PID	7	0	0Y		Patient Birth Date	Date	yyyyMMdd
PID	8	0	0Y		Patient Sex	Enum	F = Female M = Male
PID	10	0	0N		Patient Race	Enum	I = American Indian or Alaskan Native A = Asian or Pacific Islander B = Black W = White O = Other
PID	11	0	0S		Patient Address1	String	
PID	11	1	0N		Patient Address2	String	
PID	11	2	0S		Patient City	String	
PID	11	3	0S		Patient State	String	
PID	11	4	0S		Patient Zip Code	String	
PID	13	0	0N		Patient Home Phone	String	(###) ###-####
PID	13	3	0N		Patient E-Mail	String	
PID	14	0	0N		Patient Work Phone	String	(###) ###-####
PID	15	0	0N		Patient Language	Enum	0 = English 1 = Spanish 2 = Other
PID	16	0	0N		Patient Marital Status	Enum	M = Married S = Single D = Divorced W = Widowed

							A = Legally Separated U = Unknown
PID	18	0	0N	Patient Account Number in Sending System (update)	String		
PID	19	0	0N	Patient Social Security Number (update)	String		
PID	22	0	0N	Patient Ethnicity	Enum	H = Hispanic N = Non-Hispanic U = Unknown	
PD1	4	0	0N	Provider Number (CollaborateMD internal)	String		
PD1	4	1	0N	Provider Last Name	String		
PD1	4	2	0N	Provider First Name	String		
PD1	4	3	0N	Provider Secondary ID	String		
NK1	1	0	0Y	Set ID – '1'	String		
NK1	2	0	0N	Next of Kin / Associated Party Last Name	String		
NK1	2	1	0N	Next of Kin / Associated Party First Name	String		
NK1	2	2	0N	Next of Kin / Associated Party Middle initial	String		
NK1	3	0	0N	Next of Kin / Associated Party Relationship	Enum	S = Spouse P = Parent C = Child R = Relative O = Other	
NK1	4	0	0N	Next of Kin / Associated Party Address 1	String		
NK1	4	1	0N	Next of Kin / Associated Party Address 2	String		
NK1	4	2	0N	Next of Kin / Associated Party City	String		
NK1	4	3	0N	Next of Kin / Associated Party State	String		
NK1	4	4	0N	Next of Kin / Associated Party Zip	String		
NK1	5	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####	
NK1	5	3	0N	Next of Kin / Associated E-Mail	String		
NK1	6	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####	
PV1	1	0	0Y	Sequence ID	String		
PV1	2	0	0N	Patient Class – 'U'	String		
PV1	6	0	0N	Prior Patient Location – "	String		
PV1	7	0	0Y	Provider ID (SeqNo or External ID)	String		
PV1	7	1	0Y	Provider Last Name	String		
PV1	7	2	0Y	Provider First Name	String		
PV1	7	3	0N	Provider Middle Initial	String		
PV1	7	6	0N	Provider Credentials	String		
PV1	7	7	0N	Provider Office Location Code (Defaults to 0)	String		
PV1	8	0	0N	Referring ID (SeqNo, UPIN, or External ID)	String		
PV1	8	1	0N	Referring Last Name	String		
PV1	8	2	0N	Referring First Name	String		
PV1	8	3	0N	Referring Middle Initial	String		
PV1	8	6	0N	Referring Credentials	String		
DG1	1	0	4N	Sequence ID	String		
DG1	2	0	0N	ICD Coding Method – 'ICD9'	String		
DG1	3	0	0N	ICD Code	String		
DG1	4	0	0N	ICD Description	String		
DG1	6	0	0N	ICD Type – 'W'	String		
GT1	1	0	2S	Sequence ID	String		
GT1	3	0	0S	Guarantor Last Name	String		

GT1	3	1	0S	Guarantor First Name	String	
GT1	3	2	0N	Guarantor Middle Name/Initial	String	
GT1	5	0	0S	Guarantor Address1	String	
GT1	5	1	0N	Guarantor Address2	String	
GT1	5	2	0S	Guarantor City	String	
GT1	5	3	0S	Guarantor State	String	
GT1	5	4	0S	Guarantor Zip Code	String	
GT1	6	0	0N	Guarantor Home Phone	String	(###) ###-####
GT1	7	0	0N	Guarantor Work Phone	String	(###) ###-####
GT1	11	0	0S	Guarantor Relation to Patient	Enum	S = Spouse P = Parent C = Child R = Relative O = Other
ACC	1	0	0N	Accident Date	Date	yyyyMMdd
ACC	2	0	0N	Accident Type	String	0 = No Accident 1 = Emp. Accident 2 = Auto Accident 3 = Other Accident
ACC	4	0	0N	Accident State – 2 letter state code	String	
IN1	1	0	3S	Sequence ID	String	
IN1	2	0	0S	Payer ID in Sending System	String	
IN1	3	0	0S	Payer ID - CollaborateMD internal ID	String	
IN1	4	0	0S	Payer Name	String	
IN1	5	0	0S	Payer Address1	String	
IN1	5	1	0N	Payer Address2	String	
IN1	5	2	0S	Payer City	String	
IN1	5	3	0S	Payer State	String	
IN1	5	4	0S	Payer Zip Code	String	
IN1	7	0	0N	Payer Phone	String	(###) ###-####
IN1	9	0	0N	Payer Group Name	String	
IN1	12	0	0N	Insured Policy Effective Date	Date	yyyyMMdd
IN1	13	0	0N	Insured Policy Termination Date	Date	yyyyMMdd
IN1	16	0	0Y	Insured's Last Name	String	
IN1	16	1	0Y	Insured's First Name	String	
IN1	16	2	0S	Insured's Middle Initial	String	
IN1	17	0	0Y	Insured Relationship to Patient	Enum	S = Self P = Spouse C = Child O = Other
IN1	18	0	0N	Insured's Date of Birth	Date	yyyyMMdd
IN1	19	0	0	Insured's Address line 1	String	
IN1	19	1	0	Insured's Address Line 2	String	
IN1	19	2	0	Insured's City	String	
IN1	19	3	0	Insured's State	String	
IN1	19	4	0	Insured's Zip Code	String	
IN1	36	0	0S	Insurance Policy Number	String	
IN1	43	0	0S	Insured's Sex	Enum	F = Female M = Male
IN2	2	0	0N	Insured Social Security Number	String	

IN2	63	0	0N	Insured's Home Phone Number	String	(###) ###-####
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### SUI (S12 & S14 & S15) Implementation Details (Outbound Message)

SEG	SEQ	CMP	REP	REQ	VALUE	TYPE	FORMAT
MSH	2	0	0Y		'^~\&'	String	
MSH	3	0	0N		Sending App	String	
MSH	4	0	0N		Sending Facility Name	String	
MSH	4	1	0N		Sending Facility ID (External or Internal)	String	
MSH	5	0	0Y		Receiving App 'CollaborateMD'	String	
MSH	6	0	0Y		Customer Name	String	
MSH	6	1	0Y		Customer Number	String	
MSH	7	0	0Y		Date Time of Message	Date	yyyyMMddHHmmss
MSH	9	0	0Y		'SUI'	String	
MSH	9	1	0Y		'S12' or 'S14' or 'S15'	String	
MSH	10	0	0Y		Message Control Number	String	
MSH	11	0	0Y		'P'	String	
MSH	12	0	0Y		'2.3.1'	String	
SCH	1	0	0Y		Appointment ID in CollaborateMD	String	
SCH	6	0	0Y		Appointment Status	Enum	0=Scheduled 1=Checked-In 2=In-Room 3=Checked-Out 4=Canceled 5=No-Show 6=Deleted 7=Confirmed
SCH	7	0	0Y		Appointment Reason - Identifier	String	
SCH	7	1	0Y		Appointment Reason - Type	String	
SCH	8	0	0Y		Appointment Reason - Identifier	String	
SCH	8	1	0Y		Appointment Reason - Type	String	
SCH	9	0	0Y		Appointment Duration	String	
SCH	10	0	0Y		'minutes'	String	
SCH	11	0	0Y		Appointment Duration	String	
SCH	11	1	0Y		'minutes'	String	
SCH	11	3	0Y		Appointment Start Date and Time	String	YYYYMMDDHH24MISS
NTE	3	0	0N		Set ID - '1'	String	
NTE	3	2	0N		Appointment Comment	String	
PID	2	0	0N		Patient Account Number in Sending System	String	
PID	3	0	0N		Patient Account Number in CollaborateMD	String	
PID	4	0	0N		Patient Social Security Number	String	
PID	5	0	0Y		Patient Last Name	String	
PID	5	1	0Y		Patient First Name	String	
PID	5	2	0N		Patient Middle Name/Initial	String	
PID	7	0	0Y		Patient Birth Date	Date	yyyyMMdd
PID	8	0	0Y		Patient Sex	Enum	F = Female M = Male
PID	10	0	0N		Patient Race	Enum	I = American Indian or Alaskan Native A = Asian or Pacific

							Islander B = Black W = White O = Other
PID	11	0	0S	Patient Address1	String		
PID	11	1	0N	Patient Address2	String		
PID	11	2	0S	Patient City	String		
PID	11	3	0S	Patient State	String		
PID	11	4	0S	Patient Zip Code	String		
PID	13	0	0N	Patient Home Phone	String	(###) ###-####	
PID	13	3	0N	Patient E-Mail	String		
PID	14	0	0N	Patient Work Phone	String	(###) ###-####	
PID	15	0	0N	Patient Language	Enum	0 = English 1 = Spanish 2 = Other	
PID	16	0	0N	Patient Marital Status	Enum	M = Married S = Single D = Divorced W = Widowed A = Legally Separated U = Unknown	
PID	18	0	0N	Patient Account Number in Sending System (update)	String		
PID	19	0	0N	Patient Social Security Number (update)	String		
PID	22	0	0N	Patient Ethnicity	Enum	H = Hispanic N = Non-Hispanic U = Unknown	
PD1	4	0	0N	Provider Id in CollaborateMD	String		
PD1	4	1	0N	Provider Last Name	String		
PD1	4	2	0N	Provider First Name	String		
PD1	4	3	0N	Provider Secondary ID	String		
NK1	1	0	0Y	Set ID – '1'	String		
NK1	2	0	0N	Next of Kin / Associated Party Last Name	String		
NK1	2	1	0N	Next of Kin / Associated Party First Name	String		
NK1	2	2	0N	Next of Kin / Associated Party Middle initial	String		
NK1	3	0	0N	Next of Kin / Associated Party Relationship	Enum	S = Spouse P = Parent C = Child R = Relative O = Other	
NK1	4	0	0N	Next of Kin / Associated Party Address 1	String		
NK1	4	1	0N	Next of Kin / Associated Party Address 2	String		
NK1	4	2	0N	Next of Kin / Associated Party City	String		
NK1	4	3	0N	Next of Kin / Associated Party State	String		
NK1	4	4	0N	Next of Kin / Associated Party Zip	String		
NK1	5	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####	
NK1	5	3	0N	Next of Kin / Associated E-Mail	String		
NK1	6	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####	
PV1	1	0	0Y	Sequence ID	String		
PV1	2	0	0N	Patient Class – 'U'	String		
PV1	6	0	0N	Prior Patient Location – "	String		
PV1	7	0	0Y	Provider ID (SeqNo or External ID)	String		

PV1	7	1	0Y	Provider Last Name	String	
PV1	7	2	0Y	Provider First Name	String	
PV1	7	3	0N	Provider Middle Initial	String	
PV1	7	6	0N	Provider NPI	String	
PV1	8	0	0N	Referring ID (SeqNo, UPIN, or External ID)	String	
PV1	8	1	0N	Referring Last Name	String	
PV1	8	2	0N	Referring First Name	String	
PV1	8	3	0N	Referring Middle Initial	String	
PV1	8	6	0N	Referring NPI	String	
DG1	1	0	4N	Sequence ID	String	
DG1	2	0	0N	ICD Coding Method – ‘ICD9’	String	
DG1	3	0	0N	ICD Code	String	
DG1	6	0	0N	ICD Type – ‘W’	String	
GT1	1	0	2S	Sequence ID	String	
GT1	3	0	0S	Guarantor Last Name	String	
GT1	3	1	0S	Guarantor First Name	String	
GT1	3	2	0N	Guarantor Middle Name/Initial	String	
GT1	5	0	0S	Guarantor Address1	String	
GT1	5	1	0N	Guarantor Address2	String	
GT1	5	2	0S	Guarantor City	String	
GT1	5	3	0S	Guarantor State	String	
GT1	5	4	0S	Guarantor Zip Code	String	
GT1	6	0	0N	Guarantor Home Phone	String	(###) ###-####
GT1	7	0	0N	Guarantor Work Phone	String	(###) ###-####
GT1	11	0	0S	Patient Relation to Guarantor	Enum	S = Spouse P = Parent C = Child R = Relative O = Other
ACC	1	0	0N	Accident Date	Date	yyyyMMdd
ACC	2	0	0N	Accident Type	String	0 = No Accident 1 = Emp. Accident 2 = Auto Accident 3 = Other Accident
ACC	4	0	0N	Accident State – 2 letter state code	String	
IN1	1	0	3S	Sequence ID	String	
IN1	2	0	0S	Payer SeqNo in CollaborateMD	String	
IN1	4	0	0S	Payer Name	String	
IN1	5	0	0S	Payer Address1	String	
IN1	5	1	0N	Payer Address2	String	
IN1	5	2	0S	Payer City	String	
IN1	5	3	0S	Payer State	String	
IN1	5	4	0S	Payer Zip Code	String	
IN1	7	0	0N	Payer Phone	String	(###) ###-####
IN1	8	0	0S	Insurance Policy Group Number	String	
IN1	9	0	0N	Payer Group Name	String	
IN1	12	0	0N	Insured Policy Effective Date	Date	yyyyMMdd
IN1	13	0	0N	Insured Policy Termination Date	Date	yyyyMMdd
IN1	16	0	0Y	Insured’s Last Name	String	

IN1	16	1	0Y	Insured's First Name	String	
IN1	16	2	0S	Insured's Middle Initial	String	
IN1	17	0	0Y	Insured Relationship to Patient	Enum	S = Self P = Spouse C = Child O = Other
IN1	18	0	0N	Insured's Date of Birth	Date	yyyyMMdd
IN1	19	0	0	Insured's Address line 1	String	
IN1	19	1	0	Insured's Address Line 2	String	
IN1	19	2	0	Insured's City	String	
IN1	19	3	0	Insured's State	String	
IN1	19	4	0	Insured's Zip Code	String	
IN1	36	0	0S	Insurance Policy Number	String	
IN1	43	0	0S	Insured's Sex	String	
IN2	2	0	0N	Insured Social Security Number	String	
IN2	63	0	0N	Insured's Home Phone Number	String	(###) ###-####
AIG	1	0	0Y	Appointment Information ID – '1'	String	
AIG	3	0	0S	Appointment Information Resource ID	String	
AIG	3	1	0S	Appointment Information Resource Name	String	
AIG	8	0	0S	Appointment Information Date and Time	String	YYYYMMDDHH24MISS
AIG	11	0	0S	Appointment Information Duration	String	
AIG	12	0	0Y	Appointment Information Duration Units – 'minutes'	String	
AIL	1	0	0Y	Appt. Info. – Location Resource – Set ID - '1'	String	
AIL	3	0	0Y	Appt. Info. - Location Resource – Point of Care - ''	String	
AIL	3	1	0	Appt. Info. - Location Resource – CMD Location Name	String	
AIL	3	2	0	Appt. Info. - Location Resource – CMD Location ID	String	
AIL	4	0	0	Appt. Info. – Location Type – 'Place of Service'	String	

### DFT (P03) Implementation Details (Inbound Message)

SEG	SEQ	CMP	REP	REQ	VALUE	TYPE	FORMAT
MSH	2	0	0Y		'^~\&'	String	
MSH	3	0	0N		Sending App	String	
MSH	4	0	0N		Sending Facility Name	String	
MSH	4	1	0N		Sending Facility ID (External or Internal)	String	
MSH	5	0	0Y		Receiving App 'CollaborateMD'	String	
MSH	6	0	0Y		Customer Name	String	
MSH	6	1	0Y		Customer Number	String	
MSH	7	0	0Y		Date Time of Message	Date	yyyyMMddHHmmss
MSH	9	0	0Y		'DFT'	String	
MSH	9	1	0Y		'P03'	String	
MSH	10	0	0Y		Message Control Number	Date	
MSH	11	0	0Y		'P'	String	
MSH	12	0	0Y		'2.3.1'	String	
EVN	1	0	0Y		'P03'	String	
EVN	2	0	0Y		Date Time of Event	Date	yyyyMMddHHmmss

EVN	2	1	0Y	'S'	String	
PID	2	0	0S	Patient Account Number in CollaborateMD	String	
PID	3	0	0S	Patient Account Number in Sending System	String	
PID	4	0	0S	Patient Social Security Number	String	
PID	5	0	0Y	Patient Last Name	String	
PID	5	1	0Y	Patient First Name	String	
PID	5	2	0N	Patient Middle Name/Initial	String	
PID	7	0	0Y	Patient Birth Date	Date	yyyyMMdd
PID	8	0	0Y	Patient Sex	Enum	F = Female M = Male
PID	11	0	0S	Patient Address1	String	
PID	11	1	0N	Patient Address2	String	
PID	11	2	0S	Patient City	String	
PID	11	3	0S	Patient State	String	
PID	11	4	0S	Patient Zip Code	String	
PID	13	0	0N	Patient Home Phone	String	(###) ###-####
PID	13	3	0N	Patient E-Mail	String	
PID	14	0	0N	Patient Work Phone	String	(###) ###-####
PID	16	0	0N	Patient Marital Status	Enum	M = Married S = Single D = Divorced W = Widowed A = Legally Separated U = Unknown
PID	18	0	0N	Patient Account Number in Sending System (update)	String	
PID	19	0	0N	Patient Social Security Number (update)	String	
NK1	1	0	0Y	Set ID – '1'	String	
NK1	2	0	0N	Next of Kin / Associated Party Last Name	String	
NK1	2	1	0N	Next of Kin / Associated Party First Name	String	
NK1	2	2	0N	Next of Kin / Associated Party Middle initial	String	
NK1	3	0	0N	Next of Kin / Associated Party Relationship	Enum	S = Spouse P = Parent C = Child R = Relative O = Other
NK1	4	0	0N	Next of Kin / Associated Party Address 1	String	
NK1	4	1	0N	Next of Kin / Associated Party Address 2	String	
NK1	4	2	0N	Next of Kin / Associated Party City	String	
NK1	4	3	0N	Next of Kin / Associated Party State	String	
NK1	4	4	0N	Next of Kin / Associated Party Zip	String	
NK1	5	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####
NK1	5	3	0N	Next of Kin / Associated E-Mail	String	
NK1	6	0	0N	Next of Kin / Associated Contact Phone	String	(###) ###-####
NK1	6	3	0N	Next of Kin / Associated E-Mail	String	
PV1	1	0	0Y	Sequence ID	String	
PV1	7	0	0Y	Provider ID (SeqNo or External ID)	String	
PV1	7	1	0Y	Provider Last Name	String	
PV1	7	2	0Y	Provider First Name	String	
PV1	7	3	0N	Provider Middle Initial	String	

PV1	7	6	0N	Provider Credentials	String	
PV1	8	0	0N	Referring ID (SeqNo, UPIN, or External ID)	String	
PV1	8	1	0N	Referring Last Name	String	
PV1	8	2	0N	Referring First Name	String	
PV1	8	3	0N	Referring Middle Initial	String	
PV1	8	6	0N	Referring Credentials	String	
FT1	1	0	99Y	Sequence ID	String	
FT1	4	0	0N	From Date of Service (Default to Today)	Date	yyyyMMdd
FT1	5	0	0N	To Date of Service (Default to Today)	Date	yyyyMMdd
FT1	6	0	0N	Type of Service Code	String	
FT1	10	0	0N	Number of Units (Default to 1)	String	
FT1	11	0	0N	Unit Price (Determine from CPT)	String	
FT1	12	0	0N	Total Price (Units * Price)	String	
FT1	14	0	0N	Bill To (Default to 1 when insured, P when self pay)	Enum	1,2,3,P
FT1	16	0	0N	Place of Service Code	String	
FT1	19	0	4Y	ICD Code	String	
FT1	19	1	0N	ICD Description	String	
FT1	25	0	0Y	CPT Code	String	
FT1	25	1	0N	CPT Description	String	
FT1	26	0	4N	CPT Modifier	String	
GT1	1	0	2S	Sequence ID	String	
GT1	3	0	0S	Guarantor Last Name	String	
GT1	3	1	0S	Guarantor First Name	String	
GT1	3	2	0N	Guarantor Middle Name/Initial	String	
GT1	5	0	0S	Guarantor Address1	String	
GT1	5	1	0N	Guarantor Address2	String	
GT1	5	2	0S	Guarantor City	String	
GT1	5	3	0S	Guarantor State	String	
GT1	5	4	0S	Guarantor Zip Code	String	
GT1	6	0	0N	Guarantor Home Phone	String	(###) ###-####
GT1	7	0	0N	Guarantor Work Phone	String	(###) ###-####
GT1	8	0	0S	Guarantor Birth Date	Date	yyyyMMdd
GT1	9	0	0S	Guarantor Sex	Enum	F = Female M = Male
GT1	11	0	0S	Guarantor Relation to Patient	Enum	S = Spouse P = Parent C = Child R = Relative O = Other
IN1	1	0	3S	Sequence ID	String	
IN1	2	0	0S	Payer ID in Sending System	String	
IN1	3	0	0S	Payer SeqNo in CollaborateMD	String	
IN1	4	0	0S	Payer Name	String	
IN1	5	0	0S	Payer Address1	String	
IN1	5	1	0N	Payer Address2	String	
IN1	5	2	0S	Payer City	String	
IN1	5	3	0S	Payer State	String	
IN1	5	4	0S	Payer Zip Code	String	

IN1	7	0	0N	Payer Phone	String	(###) ###-####
IN1	8	0	0N	Payer Group Number	String	
IN1	9	0	0N	Payer Group Name	String	
IN1	10	0	0S	Insurance Policy Group Number	String	
IN1	14	0	0S	Authorization Number	String	
IN1	16	0	0N	Insured's Last Name	String	
IN1	16	1	0N	Insured's First Name	String	
IN1	16	2	0N	Insured's Middle Initial	String	
IN1	17	0	0N	Insured's Relationship to Patient	Enum	S = Self P = Spouse C = Child O = Other
IN1	18	0	0N	Insured's Date Of Birth	Date	yyyyMMdd
IN1	19	0	0N	Insured's Address Line 1	String	
IN1	19	1	0N	Insured's Address Line 2	String	
IN1	19	2	0N	Insured's City	String	
IN1	19	3	0N	Insured's State	String	
IN1	19	4	0N	Insured's Zip Code	String	
IN1	20	0	0N	Release of Information (Defaults to Y)	Enum	Y,N
IN1	27	0	0N	Assignment of Benefits (Defaults to Y)	Enum	Y,N
IN1	36	0	0S	Insurance Policy Number	String	
IN1	37	0	0N	Insurance Policy Copay	String	
IN1	47	0	0N	Insurance Policy Type	String	

## ACK Implementation Details

SEG	SEQ	CMP	REP	REQ	VALUE	TYPE	FORMAT
MSH	2	0	0	Y	'^~\&'	String	
MSH	3	0	0	Y	'CollaborateMD'	String	
MSH	4	0	0	Y	Practice Name	String	
MSH	4	1	0	Y	Customer Number	String	
MSH	7	0	0	Y	Date Time of Message	Date	yyyyMMddHHmmss
MSH	9	0	0	Y	'ADT' or 'DFT'	String	
MSH	9	1	0	Y	'ACK'	String	
MSH	10	0	0	Y	Message Control Number	String	
MSH	11	0	0	Y	'P'	String	
MSH	12	0	0	Y	'2.3.1'	String	
MSA	1	0	0	Y	'1'	String	
MSA	2	0	0	Y	Message Control Number	String	
MSA	3	0	0	Y	'Success' or 'Error'	String	
MSA	6	0	99	S	Error Value	String	
MSA	6	1	0	S	Error Message	String	
MSA	1	0	0	S	'2'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Patient'	String	
MSA	4	0	0	S	Patient Account Number in CollaborateMD	String	
MSA	1	0	0	S	'3'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Referring'	String	
MSA	4	0	0	S	Referring SeqNo in CollaborateMD	String	
MSA	1	0	0	S	'4'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Payor1'	String	
MSA	4	0	0	S	Payer SeqNo in CollaborateMD	String	
MSA	1	0	0	S	'5'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Payor2'	String	
MSA	4	0	0	S	Payer SeqNo in CollaborateMD	String	
MSA	1	0	0	S	'6'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Payor3'	String	
MSA	4	0	0	S	Payer SeqNo in CollaborateMD	String	
MSA	1	0	0	S	'7'	String	
MSA	2	0	0	S	Message Control Number	String	
MSA	3	0	0	S	'Claim'	String	
MSA	4	0	0	S	Claim SeqNo in CollaborateMD	String	

### P03 Example

```
MSH|^~\&||CollaborateMD|COLLABORATEMD FAMILY
MEDICINE^10001911|20051024000000||DFT^P03|20051024000000|P|2.3.1\x0D
EVN|P03|20051024000000^S\x0D
PID|1|10838576||999999999|MANN^PATRICK||19750312|M|||1111 HIDDEN
ST^^ORLANDO^FL^32806|||(407) 228-6111|(407) 228-6111|M|||999999999\x0D
PV1|1||10003016|||10003476^KEGLER^FRED^^^MD|10052932^TIPPY^TOMMY^^^MD\x0D
FT1|1|||20051024000000|20051024000000|1|||1|100|100||1||11|||006.6~006.9|||9
9212|22~23\x0D
FT1|2|||20051024000000|20051024000000|1|||1|100|100||1||11|||006.6~006.9~030.3~
018.06|||99212|25~26\x0D
FT1|3|||20051024000000|20051024000000|1|||1|100|100||1||11|||018.02~018.03~018.
05~008.5|||99212|25~26~27~28\x0D
GT1|1||MANN^PATRICK||1111 HIDDEN
ST^^ORLANDO^FL^32806|||19750312|M||S|999999999|||F\x0D
GT1|2||MANN^PATRICK||1111 HIDDEN ST^^ORLANDO^FL^32806|(407) 228-6111|(407) 228-
6111|19750312|M||S|999999999|||F\x0D
IN1|1|10068182|10068182|AETNA HEALTH PLANS|P.O. BOX 1125^^BLUE
BELL^PA^19422|||(800) 245-1206||FL SGB OA
POS|999999999|||20|||Y|||N|||123123123213|20|||7\x0D
IN1|3|10102666|10102666|HUMANA|PO BOX 5620^^MADISON^WI^537050620|||(800) 558-
4444|||432432424|||2|||243324324324|0|||7\x0D
\x1C\x0D
```

## A04/A08 Example

```
MSH|^~\&|CollaborateMD|FAMILY MEDICINE
TEST^10001911|||20120727085556|ADT^A08|20120727085556|P|2.3.1\x0D
EVN|A08|20120727085556^S\x0D
PID||15957075|15957075|559833000|PANDO^ROB^M||19450901|M|W|14094 BANE BERRY
CIRCLE^^MANASSAS^VA^201128857|||(407) 855-
4888^^^rp@testisp.com||0|S|||559833000|||N\x0D
PD1|||10009890^ACTIVE^RADIO^N\x0D
NK1|1|PANDO^BILLY|P|5256 CITY
ST^^OLRAN DO^FL^32939|4070001111^^^BP@testisp.com|4072223333\x0D
PV1||U|||10009890^ACTIVE^RADIO^L^^^1245277599|10170578^BRAIN^PINKY^^^12233344
44\x0D
DG1|1|ICD9|003.21|||W\x0D
GT1|1||PANDO^ELLEN||5156 CITY ST^^ORLAN DO^FL^32839|(407) 111-
2222^^^EP@TESTISP.COM|(407) 333-4444\x0D
ACC|20110802|2||FL\x0D
IN1|1|10356100||CALIFORNIA MEDI-CAL|12 ST^^PASE DENA^CA^65466|||(465) 498-
4987|6765595|CAL MED|||20100401|20110421|||PANDO^ROB^M|S|19450901|23
RD^^ATLAN TA^VA^222220001|||2344654563543|||M\x0D
IN2||559833000|||(407)
855-1111\x0D
IN1|2|10009785||BLUE CROSS AND BLUE SHIELD OF FLORIDA|PO BOX 898^SUITE
4^JACKSONVILLE^FL^32806|||(800) 358-0050|GO7728489|POS
PPO|||20120601|20130630|||PANDO^ROB^M|S|19450901|23
RD^^ATLAN TA^VA^222220001|||123-12-3|||M\x0D
IN2||559833000|||(407)
855-1111\x0D
IN1|3|10323957||FLORIDA HOSPITAL HEALTHCARE SYSTEMS|1234 PRINCETON
AVENUE^^ORLAN DO^FL^32825|||GO7728489|||20110228|20120630|||PANDO^JANE|P|1970010
1|14094 BANE BERRY
CIRCLE^^MANASSAS^VA^201128857|||2335432452|||F\x0D
IN2||001001001|||(407)
855-4888\x0D
\x1C\x0D
```

## S14 Example

```
MSH|^~\&|CollaborateMD|FAMILY MEDICINE-  
TEST^10001911|||20120727090202||SIU^S12|20120727090202|P|2.3.1\x0D  
SCH|31682132|||Scheduled|10001006^ANNUAL PHY|10001006^ANNUAL  
PHY|30|minutes|30^minutes^^20120727110000\x0D  
PID||15957075|15957075|559833000|PANDO^ROB^M||19450901|M||W|14094 BANE BERRY  
CIRCLE^^MANASSAS^VA^201128857|||(407) 855-  
4888^^^rp@testisp.com||0|S|||559833000|||N\x0D  
PD1|||10009890^ACTIVE^RADIO^N\x0D  
NK1|1|PANDO^BILLY|P|5256 CITY  
ST^^OLRAN DO^FL^32939|4070001111^^^BP@testisp.com|4072223333  
PV1||U|||10009890^ACTIVE^RADIO^L^^^1245277599|10170578^BRAIN^PINKY^^^12233344  
44\x0D  
DG1|1|ICD9|003.21|||W\x0D  
GT1|1||PANDO^ELLEN||5156 CITY ST^^ORLANDO^FL^32839|(407) 111-  
2222^^^EP@TESTISP.COM|(407) 333-4444\x0D  
ACC|20110802|2||FL\x0D  
IN1|1|10356100||CALIFORNIA MEDI-CAL|12 ST^^PASE DENA^CA^65466|||(465) 498-  
4987|6765595|CAL MED|||20100401|20110421|||PANDO^ROB^M|S|19450901|23  
RD^^ATLANTA^VA^222220001|||2344654563543|||M\x0D  
IN2||559833000||| |(407)  
855-1111\x0D  
IN1|2|10009785||BLUE CROSS AND BLUE SHIELD OF FLORIDA|PO BOX 898^SUITE  
4^JACKSONVILLE^FL^32806|||(800) 358-0050|GO7728489|POS  
PPO|||20120601|20130630|||PANDO^ROB^M|S|19450901|23  
RD^^ATLANTA^VA^222220001|||123-12-3|||M\x0D  
IN2||559833000||| |(407)  
855-1111\x0D  
IN1|3|10323957||FLORIDA HOSPITAL HEALTHCARE SYSTEMS|1234 PRINCETON  
AVENUE^^ORLANDO^FL^32825|||GO7728489|||20110228|20120630|||PANDO^JANE|P|1970010  
1|14094 BANE BERRY  
CIRCLE^^MANASSAS^VA^201128857|||2335432452|||F\x0D  
IN2||001001001||| |(407)  
855-4888\x0D  
AIG|1||10000104^KYLE BARNES MD - ROOM C|||20120727110000|||30|minutes\x0D  
AIL|1||^COLLABORATEMD FAMILY MEDICINE^10001787|Place of Service \x0D  
\x1C\x0D
```

## ACK Error Example

```
MSH|^~\&|CollaborteMD|COLLABORATEMD FAMILY
MEDICINE|Test1|Test2|20051024000000||ADT^ACK|20051024000000|P|2.3.1\x0D
MSA|1|20051024000000|Error|||10001991^Invalid Provider Id~12345678^Invalid
Facility Id~Exception^General Server Error\x0D
\x1C\x0D
```

## ACK Success Example

```
MSH|^~\&|CollaborteMD|COLLABORATEMD FAMILY
MEDICINE|Test1|Test2|20051024000000||DFT^ACK|20051024000000|P|2.3.1\x0D
MSA|1|20051024000000|Success\x0D
MSA|2|20051024000000|Patient|12345678\x0D
MSA|3|20051024000000|Referring|12345678\x0D
MSA|4|20051024000000|Payor1|12345677\x0D
MSA|5|20051024000000|Payor2|12345678\x0D
MSA|6|20051024000000|Payor3|12345679\x0D
MSA|7|20051024000000|Claim|12345678\x0D
\x1C\x0D
```