



***PowerSoftMD* EMR HL7
Import
Specifications**

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Introduction

PowerSoftMD uses HL7 2.5.1 specifications. The following pages outline our requirements for both Patient Information and Scheduling update files.

PowerSoftMD itself does not transmit or receive Message segments. Data Tec does not install, set up, train, endorse, or support any hardware or software used for Client Communications. The Practice Management Company is responsible for setting up a secure folder on the Clients (Doctors Office) computer to receive files. This folder must be on the same Windows shared drive as the PowerSoftMD folders are located.

We recommend a structured folder names, for example:

H:\PMSCopanyName\HL7

The “Practice Management” company might use a VPN or service like HyperSend. Whatever is agreeable with the Client (Doctors Office) and is encrypted and secure to HIPPA standards. Another potential service you could check out is: [LogMeIn Hamachi](#)

Again, the secure transmission is between the Practice Management Company and the Client (Doctors Office), Data Tec is not involved or responsible for this link or transmission service in any way.

PowerSoftMD will monitor and pick up Patient Demographics and Scheduling information from the HL7 sub-folder.

Note: We do not install, set up, train, endorse, or support any hardware or software used for Client Communications.

Technical Basics

Message delivery: Data Tec is not responsible for data delivery or pickup. We look for and leave messages in specified local computer directories.

Standard HL7 message structure,

Segment delimiters <CR>

Messages delimiters <LF>

| - field delimiter

^ - component delimiter

~ - repeat delimiter

\ - escape character

& - sub-component delimiter

The following escape fields are defined.

\F\ field separator character, i.e: |

\S\ component separator character, i.e: ^

\T\ subcomponent separator character, i.e: &

\R\ repetition separator character, i.e: ~

\E\ escape character, i.e: \

No Acknowledgement messages are utilized, so as a standard, files should be read & verified before being deleted.

Message events used are:

ADT_A04 Register a Patient

ADT_A08 Update Patient Information

ADT_A23 Delete a Patient Record

SIU_S12 New Appointment Booking

SIU_S15 Appointment Cancellation

Segments in [] square brackets are optional, { } Curly brackets are repeatable

Patient Info Messages	Scheduling Messages
MSH	MSH
PID	SCH
[PD1]	PID
[PV1]	[PV1]
[[IN1]]	
[[GT1]]	

Patient Information Message

MSH Segment Message Header

Field	Required	Use	Example/Format	Length
MSH-0	Yes	Identify Segment	'MSH'	3
MSH-1	Yes	Separate Field	' '	1
MSH-2	Yes	Special use Characters	'^~\&'	4
MSH-3	Yes	Identify Sending App	Alpha Numeric	15
MSH-4	Yes	Identify Client	'PowerSoft MD'	12
MSH-5	Yes	Id Recipient Company	Alpha Numeric	15
MSH-6	Yes	Identify Recipient Location	Alpha Numeric	15
MSH-7	Yes	Date/Time of Message	yyyymmddhhmm	12
MSH-9	Yes	Type of Message Sent	'ADTA04','ADTA08',or 'ADTA23'	6
MSH-11	Yes	Production or Test	'P' or 'T'	1
MSH-12	Yes	HL7 Spec Version	'2.5.1'	5
MSH-17	No	Country Code	'US'	2
MSH-18	No	Character Set	'ASCII'	10
MSH-19	No	Principal Language	'en'	60

Note: Items enclosed between single apostrophizes (') are examples

PID Segment Patient Info

Field	Required	Use	Example/Format	Length
PID-0	Yes	Identify Segment	'PID'	3
PID-1	Yes	Sequence Number	'1'	1
PID-3	Yes	Patient ID	Numeric	20
PID-4	No	Alternate Patient ID	Numeric	20
PID-5	Yes	Patient Name	Last^First^Middle Initial	25^15^15
PID-7	Yes	Patient Date of Birth	yyyymmdd	8
PID-8	Yes	Patient Gender	'M', 'F', 'N' or 'U'	1
PID-10	Yes	Patient Race	'A', 'B', 'C', 'H', 'I', 'O', 'U'	1
PID-11	Yes	Patient Address	Line1^Line2^City^State^Zip	35^35^16^2^9
PID-13	No	Patient Home Phone	'1234567890'	10
PID-14	No	Patient Work Phone	'1234567890'	10
PID-19	No	Patient SSN	'123456789'	9
PID-22	No	Ethnic Group	'H', 'N', or 'U'	1
PID-29	No	Death Date/Time	yyyymmddhhmm	12
PID-30	No	Death Indicator	'Y' or 'N'	1

Notes: Items enclosed between single apostrophizes (') are examples

PD1 Segment Patient Demographics

Field	Required	Use	Example/Format	Length
PD1-0	Yes	Identify Segment	'PD1'	3
PD1-4	No	Primary Care Provider	ID^LName^FName^MInitial ^^^^IDType('N' = NPI)	20^25^15^1^^^^1

Notes: Items enclosed between single apostrophizes (') are examples

PV1 Segment Patient Visit Info

Field	Required	Use	Example/Format	Length
PV1-0	Yes	Identify Segment	'PV1'	3
PV1-1	Yes	Sequence Number	'1'	1
PV1-7	Yes	Physician Identification	PhysicianID^LName^FName^MInitial^^^^IDType('N' = NPI)	20^25^15^1^^^^1
PV1-18	No	Patient Type	'Active' 'Inactive' or 'Deceased'	10

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IN1 Segment Insurance Info

Field	Required	Use	Example/Format	Length
IN1-0	Yes	Identify Segment	'IN1'	3
IN1-1	Yes	Sequence Number	'1' or '2'	1
IN1-2	No	Not Used		
IN1-3	Yes	Carrier ID	^Carrier Code(A-Z,0-9)	0^5
IN1-4	Yes	Carrier Name	Alpha Numeric	30
IN1-5	No	Carrier Address	Street^Line2^City^State^Zip	35^35^16^2^9
IN1-8	No	Insured Group #	Alpha Numeric	15
IN1-11	No	Group Employer Name	Alpha Numeric	15
IN1-16	No	Name of Insured	Last^First^Middle	25^15^15
IN1-17	Yes	Insured Relation to Patient	'1' Self '2' Spouse '3' Other '4' Child '5' Parent '7' Employee '6' Sponsored Dependent	1
IN1-36	No	Policy Number	Alpha Numeric	25

Note: Items enclosed between single apostrophizes (') are examples

GT1 Segment Guarantor Info

Field	Required	Use	Example/Format	Length
GT1-0	Yes	Identify Segment	'GT1'	3
GT1-1	Yes	Sequence Number	'1'	1
GT1-3	Yes	Guarantor Name	Last^First^Middle	25^15^1
GT1-5	Yes	Guarantor Address	Street^Line2^City^State^Zip	35^35^16^2^9
GT1-6	Yes	Guarantor Phone	Numeric	10
GT1-11	Yes	Relation to Patient	'1' Self '3' Other	1
GT1-16	No	Guarantor Employer	Alpha Numeric	15

Note: Items enclosed between single apostrophizes (') are examples

Scheduling Message

MSH Segment Message Header

Field	Required	Use	Example/Format	Length
MSH-0	Yes	Identify Segment	'MSH'	3
MSH-1	Yes	Separate Field	' '	1
MSH-2	Yes	Special use Characters	'^~\&'	4
MSH-3	Yes	Identify Sending App	Alpha Numeric	15
MSH-4	Yes	Identify Client	'PowerSoft MD'	12
MSH-5	Yes	Identify Recipient Company	Alpha Numeric	15
MSH-6	Yes	Identify Recipient Location	Alpha Numeric	15
MSH-7	Yes	Date/Time of Message	yyyymmddhhmm	12
MSH-9	Yes	Type of Message Sent	'SIUS12' or 'SIUS15'	6
MSH-11	Yes	Production or Test	'P' or 'T'	1
MSH-12	Yes	HL7 Spec Version	'2.5.1'	5
MSH-17	No	Country Code	'US'	2
MSH-18	No	Character Set	'ASCII'	10
MSH-19	No	Principal Language	'en'	60

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SCH Segment Scheduling Info

Field	Required	Use	Example/Format	Length
SCH-0	Yes	Identify Segment	'SCH'	3
SCH-1	Yes	Appointment ID	Numeric	10
SCH-5	No	Schedule ID	Numeric	10
SCH-7	No	Appt Reason	ID^Text	5^10
SCH-9	Yes	Appt Duration	Numeric	10
SCH-10	Yes	Duration Units	'M' or 'H'	1
SCH-11	Yes	Start Time	^^yyymmddhhmm	0^0^0^14

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PID Segment Patient Info

Field	Required	Use	Example/Format	Length
PID-0	Yes	Identify Segment	'PID'	3
PID-1	Yes	Sequence Number	'1'	1
PID-3	Yes	Patient ID	Numeric	20
PID-4	No	Alternate Patient ID	Numeric	20
PID-5	Yes	Patient Name	Last^First^Middle Initial	25^15^15
PID-7	Yes	Patient Date of Birth	yyyymmdd	8
PID-8	Yes	Patient Gender	'M', 'F', 'N' or 'U'	1
PID-10	Yes	Patient Race	'A', 'B', 'C', 'H', 'I', 'O', 'U'	1
PID-11	Yes	Patient Address	Line1^Line2^City^State^Zip	35^35^16^2^9
PID-13	No	Patient Home Phone	'1234567890'	10
PID-14	No	Patient Work Phone	'1234567890'	10
PID-19	No	Patient SSN	'123456789'	9
PID-22	No	Ethnic Group	'H', 'N', or 'U'	1
PID-29	No	Death Date/Time	yyyymmddhhmm	12
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PV1 Segment Patient Visit Info

Field	Required	Use	Example/Format	Length
PV1-0	Yes	Identify Segment	'PV1'	3
PV1-1	Yes	Sequence Number	'1'	1
PV1-7	Yes	Physician Identification	PhysicianID^LName^FName^MInitial^^^^IDType('N' = NPI)	20^25^15^1^^^^1
PV1-18	No	Patient Type	'Active' 'Inactive' or 'Deceased'	10

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