

Volume

4

MICRO-OFFICE SYSTEMS, INC.

MicroMD HL7 Import Specification

HL7 Interface Documentation

MICROMD HL7 IMPORT SPECIFICATION

HL7 Inteface Documentation

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Chapter 1: Introduction

The MicroMD HL7 Standard Import supports communications by both socket and by file. This document describes the message types accepted by the standard HL7 import interface along with the detailed specifications on each of the segments within the message.

<i>Message Type</i>	<i>Description</i>
DFT^P03	Create Charges
ADT^A01	Create Patient
ADT^A04	Create Patient
ADT^A08	Update Patient
ADT^A10	Create Patient
ADT^A31	Update Patient
SIU^S12	Appointment Booking
MFN^M02	Referring Doctor create / update / delete
ORU^R01	Observation Results
ORU^O01	Observation Results

A few general notes about the HL7 import interface:

- 1) Any separator characters may be used.
- 2) The MSH sending application / facility and receiving application / facility can be validated against values defined in the interface.
- 3) Not every version of the interface accepts all types of messages.

Usage:

R: REQUIRED. Must be sent in the message.

O: OPTIONAL. Value will be used if sent in the message.

N: NEVER. Any value present will be ignored by the interface.

MSH

<i>Field #</i>	<i>Name</i>	<i>Usage</i>	<i>Notes</i>
1	Field Separator	R	
2	Encoding Characters	R	
3	Sending Application	O	Will be validated if value specified in interface.
4	Sending Facility	O	Will be validated if value specified in interface.
5	Receiving Application	O	Will be validated if value specified in interface.
6	Receiving Facility	O	Will be validated if value specified in interface.
7	Date-Time of Message	N	
8	Security	N	
9	Message Type	R	Indicates what type of message is being received.
10	Message Control ID	O	Used by logging to uniquely identify the message. Strongly recommended.
11	Processing ID / Processing Mode	N	
12	Version ID	N	Should be defined for future compatibility.
13	Sequence #	N	
14	Continuation Pointer	N	
15	Accept ACK Type	N	
16	App ACK Type	N	
17	Country Code	N	
18	Character Set	N	
19	Principal Language	N	

Chapter 2: DFT Messages

Message Types:

DFT^P03: Charge Import

All segments not listed below are ignored.

<i>Segment</i>	<i>Usage</i>	<i>Notes</i>
MSH	R	
PID	R	To identify the patient receiving the charges
PV1	R	
FT1	R	There may be multiple FT1 segments. At least 1 is required.

A sample DFT^P03 message for inserting charge data into MicroMD from Micro-Office Systems

Note that the PID and FT1 segments continue onto a second line for display purposes only, but are in fact one continuous line..

Many systems list each procedure code in a separate FT1 segment, thus avoiding most of the "repeaters".

It is STRONGLY recommended that each charge be placed into a separate FT1 segment.

It is also strongly recommended that diagnosis code information be placed into the FT1 segment instead of using DG1 segments, though DG1 segments are supported if necessary.

```
MSH|^~&|.||200306170639||DFT^P03|ADT.1.4477755|P|2.3
EVN|P03|200306170639
PID|1||1234.1||KALMAN^MIKE^D^^^|19610107|M|^|123 SOME STREET^^CLEVE HTS^OH^44118||
(216)297-1240||M||21583142|123-45-6789
PV1|1|E|EMG-W^^1|||||||||||||||||OVL||REG||200306170639
FT1|1|1|BATCHID|20031001000000|20031002000000|CG|01123^PROCDESC1||
1|63.00|63.00|||||123.45|1||||01123
FT1|2|1|BATCHID|20031001000000|20031002000000|CG|54321^PROCDESC2||
2|24.00|12.00|||||12.213|1||||54321
```

Segment Type: PID

Note: For this segment, all fields not shown have usage 'N'.

<i>Field #</i>	<i>Name</i>	<i>Expected Value</i>	<i>Usage</i>	<i>Notes</i>
2	External ID	Interface-Defined	O	Usually the external system's unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
3	Internal ID	Interface-Defined	O	Usually the MicroMD unique patient ID. There is an interface setting to tell the interface what type of data is in PID-3
4	Alternate Pat ID	Interface-Defined	O	There is an interface setting to tell the interface what type of data is in PID-4
5	Patient Name	Last Name ^ First Name ^ Middle Initial ^ Generation ^ Title	O O O O N	Name is used if patient could not be found in MicroMD. In that case, this becomes a write-in appointment.
7	Date of Birth	Date of Birth	O	Used in demographic search if no ID match is found.
8	Sex	Gender	O	M=Male F=Female Any other value maps to U. Used in demographic search if no ID match is found.
13	Phone # - Home	Home Phone	O	
19	SSN	With or without dashes	O	Used in demographic search if no ID match is found.

Segment Type: PV1

Note: For this segment, all fields not shown have usage 'N'

Field #	Name	Value	Usage	Notes
3	Assigned Patient Location	External location ID	O	Mapped in interface from ID in component 1. Other components are ignored. This value is used if not overridden in FT1-16.
7	Attending Doctor	External Provider ID ^ Last Name ^ First Name ^ Middle Initial ^ Degree	O	Mapped in interface from ID in component 1. Other components are ignored.
8	Referring Doctor	External Ref Dr ID ^ Last Name ^ First Name ^ Middle Initial ^ Degree	O	Mapped in interface from ID in component 1. Other components are ignored.
39	Servicing Facility	External Service Facility ID	O	Mapped in interface from ID in component 1 to a MicroMD service facility ID. Other components are ignored.

Segment Type: FT1

Note: For this segment, all fields not shown have usage 'N'.

<i>Field #</i>	<i>Name</i>	<i>Usage</i>	<i>Notes</i>
4	Transaction Date	O	The date the service was performed. If not specified, the posting date is used.
5	Trans Posting Date	O	The posting date for the charge. If not specified, the date of import is used.
7	Transaction Code	O	Both fields 7 and 25 are checked for procedure codes. If both are defined, field 25 is given priority. Can have multiple repetitions.
10	Transaction Qty	O	Up to 4 repetitions corresponding to the repetitions of the procedure code. See note by field 11.
11	Trans Amount – Ext	O	Up to 4 repetitions. If specified, used as the total price for the charge. If not specified, and fields 10 & 12 are specified, they are multiplied for the combined amount. If only field 10 is specified, it is multiplied by the MicroMD procedure charge amount for the total.
12	Trans Amount – Unit	O	Up to 4 repetitions. See note by field 11. If not present, uses 1.
14	Insurance Plan ID	O	If defined and not “0”, sets insurance responsibility in MicroMD even when MicroMD has no policy information for the patient. Mapped via interface to the primary plan associated with the charge.
16	Assigned Pat Location	O	Mapped via interface to a MicroMD location ID. If not specified, the value in PV1-3 is used.
19	Diagnosis Code	O	Up to 4 repetitions of this field are used to specify the 4 diagnosis codes for the charge.
20	Performed By Code	O	If specified, mapped via interface to MicroMD provider. If not specified, sequence-level provider is used.
21	Ordered By Code	O	If specified, mapped via interface to MicroMD billing provider. If not specified, the billing provider associated with the charge provider (see field 20) is used.
25	Procedure Code	O	Both fields 7 and 25 are checked for procedure codes. If both are defined, field 25 is given priority. Can have multiple repetitions.
26	Procedure Modifier	O	Up to 4 repetitions can be used to specify up to 4 modifiers. This will be checked even if version is 2.3 instead of 2.3.1. If not specified, the third component of each repetition of field 25 will be checked for modifiers. The two character codes can be concatenated together there.

Segment Type: ACC

Note: For this segment, all fields not shown have usage 'N'.

<i>Field #</i>	<i>Name</i>	<i>Expected Value</i>	<i>Usage</i>	<i>Notes</i>
2	External ID	Interface-Defined	O	Usually the external system's unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
3	Internal ID	Interface-Defined	O	Usually the MicroMD unique patient ID. There is an interface setting to tell the interface what type of data is in PID-3
4	Alternate Pat ID	Interface-Defined	O	There is an interface setting to tell the interface what type of data is in PID-4
5	Patient Name	Last Name ^ First Name ^ Middle Initial ^ Generation ^ Title	O O O O N	Name is used if patient could not be found in MicroMD. In that case, this becomes a write-in appointment.
7	Date of Birth	Date of Birth	O	Used in demographic search if no ID match is found.
8	Sex	Gender	O	M=Male F=Female Any other value maps to U. Used in demographic search if no ID match is found.
13	Phone # - Home	Home Phone	O	
19	SSN	With or without dashes	O	Used in demographic search if no ID match is found.

Chapter 3: ADT Messages

Message Types:

ADT^A01: Create patient
ADT^A04: Create patient
ADT^A10: Create patient
ADT^A08: Update patient
ADT^A31: Update patient

The interface does NOT support deletion of patients.
All segments not listed below are ignored.

<i>Segment</i>	<i>Usage</i>	<i>Notes</i>
MSH	R	
EVN	O	Only used for the date for notes if there are NTE segments.
PID	R	Patient Information
PV1	O	Patient Visit. For ADT, has primary provider information
DG1	O	Patient's Last Diagnosis information. Maximum 4 segments.
GT1	O	Guarantor Information
IN1	O	One for each insurance policy
IN2	O	If IN1 has employer info
NTE	O	Patient notes

Segment Type: PID

Note: For this segment, all fields not shown have usage 'N'

Field #	Name	Expected Value	Usage	Notes
1	Set ID		N	
2	External ID	Interface-Defined	O	Usually the external system's unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
3	Internal ID	Interface-Defined	O	Usually the MicroMD unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
4	Alternate Pat ID	Interface-Defined	O	There is an interface setting to tell the interface what type of data is in PID-2
5	Patient Name	Last Name ^ First Name ^ Middle Initial ^ Generation ^ Title	O O O O N	Used in demographic search if no ID match is found.
6	Mother's Maiden Nm		N	
7	Date of Birth	Date of Birth	O	Used in demographic search if no ID match is found.
8	Sex	Gender	O	M=Male F=Female Any other value maps to U.
9	Patient Alias		N	
10	Race	External Race Code	O	Mapping defined in interface
11	Patient Address	Address1 ^ Address2 ^ City ^ State ^ Zip	O	
12	Country Code		N	
13	Phone # - Home	Home Phone	O	Can also specify e-mail address in component 4.
14	Phone # - Business	Work Phone	O	
15	Primary Language		N	
16	Marital Status	Marital Status Code	O	See Table 0002
17	Religion		N	
18	Patient Account #		N	
19	SSN	With or without dashes	O	Used in demographic search if no ID match is found.
29	Patient Death Date		O	Updated if field 30 is "Y"
30	Patient Death Ind		N	"Y" if patient is dead

Segment Type: PV1

Note: For this segment, all fields not shown have usage 'N'

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
3	Assigned Patient Location	External location ID	O	Mapped in interface from ID in component 1. Other components are ignored.
7	Attending Doctor	External Provider ID ^ Last Name ^ First Name ^ Middle Initial ^ Degree	O	Mapped in interface from ID in component 1. Other components are ignored.
8	Referring Doctor	External Ref Dr ID ^ Last Name ^ First Name ^ Middle Initial ^ Degree	O	Mapped in interface from ID in component 1. Other components are ignored.

Segment Type: DG1

Note: For this segment, all fields not shown have usage 'N'.

There can be up to 4 DG1 segments, representing the 4 "last diagnosis" values.

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
3	Diagnosis Code		R	Diagnosis code goes in component 1.

Segment Type: GT1

Note: For this segment, all fields not shown have usage 'N'

Field #	Name	Value	Usage	Notes
2	Guarantor #		O	MicroMD does not have a unique guarantor ID. If guarantor is in the patient table, this is the MicroMD unique patient ID for the guarantor. If the responsible party is NOT in the patient table, this is blank.
3	Guarantor Name	Last ^ First ^ Middle	O	
5	Guarantor Address	Address1 ^ Address2 ^ City ^ State ^ Zip	O	
6	Guarantor Home #		O	
7	Guarantor Work #		O	
8	Date of Birth		O	Used in search if needed
9	Sex		O	M / F / U. Used in search if needed
12	Guar SSN		O	Interface setting determines if there are dashes
16	Guar Employer Name		O	Only if guarantor is patient and patient employer defined.
17	Guar Employer Add	Address1 ^ Address2 ^ City ^ State ^ Zip	O	
18	Guar Employer Phone		O	
30	Guar Marital Status	Marital status code	O	Must use 'S' for self
45	Contact Person's Name		O	Must be non-empty if contact information is to be stored
46	Contact Person's Phone Number		O	
47	Contact Reason		O	

Segment Type: IN1

Note: For this segment, all fields not shown have usage 'N'.

There will be an IN1 segment for each policy in the external system.

The external system may or may not send over expired policies.

MicroMD stores primary, secondary, and tertiary insurance information, so if there are more than three active insurances, the additional ones will be ignored.

Field #	Name	Value	Usage	Notes
2	Insurance Plan ID	External Plan ID	R	Mapped via interface to a MicroMD plan.
3	Ins Company ID		N	
4	Ins Company Name	Plan Name	R	The name of the insurance plan.
5	Ins Company Address	Address1 ^ Address2 ^ City ^ State ^ Zip	R	
6	Contact Person		O	
7	Ins Company Phone	Phone	O	
8	Group Number		O	
12	Policy Start Date		O	If not specified, as if policy active from beginning of time.
13	Policy End Date		O	If not specified, policy has no expiration date.
15	Plan Type		O	Mapped via interface to a MicroMD insurance class.
16	Insured Name	Last ^ First ^ Middle	O	
17	Insured Relation to Patient		R	Mapped via interface to a MicroMD relation code.
18	Insured DOB		O	
19	Insured Address	Address1 ^ Address2 ^ City ^ State ^ Zip	O	
20	Assignment		R	Y/N
22	Coord Priority	1, 2, 3, etc...	O	1=primary, 2=secondary, 3=tertiary. If not in range 1-3, then 1 st active IN1 segment is primary, 2 nd is secondary, 3 rd is tertiary.
36	Policy Number		R	
37	Policy Deductible		O	Used for deductible & copay amounts when creating a new plan
43	Insured's Sex		O	M / F / U
44	Insured's Employer Address	Address1 ^ Address2 ^ City ^ State ^ Zip	O	

Segment Type: IN2

Note: For this segment, all fields not shown have usage 'N'.

This will, if defined, immediately follow the corresponding IN1 segment.

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
25	Payor ID		O	Left 5 characters used if defined.
26	Payor Subscriber ID		O	
49	Employer Contact		O	
50	Employer Phone		O	
64	Insured's Phone – Work		O	
70	Insured's Employer Name		O	Required if specifying insured employer info.

Segment Type: NTE

Defines patient-level notes. There can be multiple NTE segments per ADT message.

Note: Created notes in MicroMD will have the timestamp specified in the EVN segment if one is defined.

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
1	Set ID		N	Increments with each segment in the message.
2	Source of Comment		N	
3	Comment	The actual comment	R	

Chapter 4: SIU Messages

Message Types:

SIU^S12: Appointment Booking

At this time, only appointment booking is supported by the MicroMD HL7 import interface. This was designed primarily for one-time imports of appointment information, but could be used on an ongoing basis if necessary.

<i>Segment</i>	<i>Usage</i>	<i>Notes</i>
MSH	R	
SCH	R	
PID	R	If patient not found, a write-in.
PV1	R	

Segment Type: SCH

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
1	Placer Appt ID	Unique Appt ID	R	A unique value for the appointment. The interface will maintain a mapping between the external appointment ID and the MicroMD appointment.
2	Filler Appt ID		N	
3	Occurrence #		N	
4	Placer Group #		N	
5	Schedule ID		N	
6	Event Reason		N	
7	Appt Reason		O	Component 2 will be the description associated with the appointment.
8	Appt Type		N	
9	Appt Duration	Length of appointment	O	In minutes. If not specified, 15 minutes is assumed.
10	Appt Duration Units		N	
11	Appt Timing Qty	(see notes)	R	Part 3: "M" + duration Part 4: REQUIRED Part 5: checkout or appt end time
12	Placer Contact Person		N	
13	Placer Contact Phone		N	
14	Placer Contact Address		N	
15	Placer Contact Location		N	
16	Filler Contact Person		N	
17	Filler Contact Phone		N	
18	Filler Contact Address		N	
19	Filler Contact Location		N	
20	Entered by Person		N	
21	Entered by Phone		N	
22	Entered by Location		N	
23	Parent Placer Appt ID		N	
24	Parent Filler Appt ID		N	
25	Filler Status Code		N	

Segment Type: PID

<i>Field #</i>	<i>Name</i>	<i>Expected Value</i>	<i>Usage</i>	<i>Notes</i>
1	Set ID		N	
2	External ID	Interface-Defined	O	Usually the external system's unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
3	Internal ID	Interface-Defined	O	Usually the MicroMD unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
4	Alternate Pat ID	Interface-Defined	O	There is an interface setting to tell the interface what type of data is in PID-2
5	Patient Name	Last Name ^ First Name ^ Middle Initial ^ Generation ^ Title	O O O O N	Name is used if patient could not be found in MicroMD. In that case, this becomes a write-in appointment.
6	Mother's Maiden Nm		N	
7	Date of Birth	Date of Birth	O	Used in demographic search if no ID match is found.
8	Sex	Gender	O	M=Male F=Female Any other value maps to U. Used in demographic search if no ID match is found.
9	Patient Alias		N	
10	Race		N	
11	Patient Address		N	
12	Country Code		N	
13	Phone # - Home	Home Phone	O	Phone is used if patient could not be found in MicroMD. In that case, this becomes a write-in appointment.
14	Phone # - Business		N	
15	Primary Language		N	
16	Marital Status		N	
17	Religion		N	
18	Patient Account #		N	
19	SSN	With or without dashes	O	Used in demographic search if no ID match is found.
29	Patient Death Date		N	
30	Patient Death Ind		N	

Segment Type: PV1

Note: For this segment, all fields not shown have usage 'N'

Field #	Name	Value	Usage	Notes
3	Assigned Patient Location	External location ID	O	The location that the appointment is booked at. The location ID is mapped via the interface to a MicroMD location ID. The other components are ignored.
7	Attending Doctor	External Prov ID ^ Last Name ^ First Name ^ Middle Initial ^ Degree	R	The provider that the appointment is booked for. The Provider ID is mapped via the interface to a MicroMD provider ID. The other components are ignored.

Chapter 5: MFN Messages - Referring Doctor

Message Types:

MFN^M02: Referring Doctor Export

<i>Segment</i>	<i>Usage</i>	<i>Notes</i>
MSH	R	
MFI	R	Required, but all values are ignored.
MFE	R	
STF	R	
PRA	O	For UPIN, LIC, and DEA provider IDs, the information can be sent in a PRA segment. If there are multiple IDs, they can be sent as multiple repetitions in a single PRA segment or in multiple PRA segments.

Segment Type: MFE

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
1	Record-level event code	See Notes	R	MAD: Add MUP: Update MDL: Delete
2	MFN Control ID		N	
3	Effective Date/Time		N	
4	Primary Key Value		N	

Segment Type: STF

Note: For this segment, all fields not shown have usage 'N'.

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
1	Primary Key Value	External referring doctor ID (numeric)	O	Either field 1 or field 2 must contain the external referring doctor ID. The interface maps this value to a MicroMD referring doctor ID. If both are defined, the field 2 value is used.
2	Staff ID Code	External referring doctor ID (numeric)	O	
3	Staff Name	Last ^ First ^ Middle	R	Referring doctor name
4	Staff Type	Something beginning with "R"	R	Must start with "R" for the message to be processed as a referring doctor message.
7	Active/Inactive		N	
10	Phone	0 or more repetitions with the phone number in component 1 and ID information in component 2. See notes.	S	Component 2 determines the phone number type. Values are: CL: Cell Phone WK: Work Phone FX: Fax BP: Beeper (other): Alternate Phone
11	Office Address	Address1 ^ Address2 ^ City ^ State ^ Zip	O	
15	E-Mail Address		O	

Segment Type: PRA

<i>Field #</i>	<i>Name</i>	<i>Value</i>	<i>Usage</i>	<i>Notes</i>
1	Primary Key Value		N	
2	Practitioner Group		N	
3	Practitioner Category		N	
4	Provider Billing		N	
5	Specialty		N	
6	Practitioner ID Numbers	ID ^ [ID Type]	O	Component 2 values that are accepted are "UPIN", "LIC", and "DEA". May be as multiple repetition in a single PRA segment or across multiple PRA segments.
7	Privileges		N	
8	Date Entered Practice		N	

Chapter 6: ORU Messages

Message Types:

ORU^R01: Observation Results

ORU^O01: Observation Results

<i>Segment</i>	<i>Usage</i>	<i>Notes</i>
MSH	R	
PID	R	To identify the patient the results belong to.
ORC	O	
OBR	R	If ORC segment is defined, OBR segment corresponds to the parent ORC segment.
OBX	R	Details correspond to the parent OBR segment.

These two messages will consist of either ORC segments with child OBR segments or OBR segments at the “top level”. In either case, OBX segments will provide the details for the OBR segments.

All information is imported directly into the MicroMD lab battery module. Please refer to the HL7 specifications at www.hl7.org for more information on the formatting of these messages, and refer to MicroSys, makers of MicroMD, for information on how this information is used.

Segment Type: PID

Note: For this segment, all fields not shown have usage 'N'.

<i>Field #</i>	<i>Name</i>	<i>Expected Value</i>	<i>Usage</i>	<i>Notes</i>
2	External ID	Interface-Defined	O	Usually the external system's unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
3	Internal ID	Interface-Defined	O	Usually the MicroMD unique patient ID. There is an interface setting to tell the interface what type of data is in PID-2
4	Alternate Pat ID	Interface-Defined	O	There is an interface setting to tell the interface what type of data is in PID-2
5	Patient Name	Last Name ^ First Name ^ Middle Initial ^ Generation ^ Title	O O O O N	Name is used if patient could not be found in MicroMD. In that case, this becomes a write-in appointment.
7	Date of Birth	Date of Birth	O	Used in demographic search if no ID match is found.
8	Sex	Gender	O	M=Male F=Female Any other value maps to U. Used in demographic search if no ID match is found.
13	Phone # - Home	Home Phone	O	
19	SSN	With or without dashes	O	Used in demographic search if no ID match is found.

Appendix A: HL7 Tables

Table 0002: Marital Status

<i>Code</i>	<i>Description</i>
M	Married
S	Single
D	Divorced
W	Widowed
X	Legally Separated
U	Unknown

Table 0005: Race

The interface can map external values to these values.

<i>Code</i>	<i>Description</i>
A	Asian
P	Native Hawaiian
O	Other
B	Black
N	Native American
M	Alaska Native
W	White
H	Hispanic
U	Unknown

Table 0063: Relation

The interface can map external values to these values.

<i>Code</i>	<i>Description</i>
01	Self
02	Spouse
03	Natural Child
04	Child / No Financial Responsibility
05	Step Child
06	Foster Child
07	Ward of the Court
08	Employee
09	Unknown
10	Handicapped Dependent
11	Organ Donor
12	Cadaver Donor
13	Grandchild
14	Niece / Nephew
15	Injured Plaintiff
16	Sponsored Dependent
17	Minor Dependent of Minor
18	Parent
19	Grandparent
29	Significant Other
53	Life Partner