

HL7 Conformance Profile

Masterfile Departments - MFN M05

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About this Conformance Profile

Conformance profile MFN M05 - Masterfile Departments inbound

HL7Server5 - Release 2005.2.1

This profile describes the MFN message structure used to import the masterfile of departments from a HIS.

Departments should be uploaded before processing ADT messages.

History:

2006-04-14 - Creation - Nico Vannieuwenhuyze

Remarks:

Segments present in the message structure, but marked as -not supported- are allowed to be present in the message, but are not processed.

The same counts for fields, components, subcomponents marked as not supported.

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message.

Please verify length attributes at the lowest level of detail if a field consists of components, subcomponents.

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

Conformance parameters

Message Profile

- HL7 Version: 2.4
- Profile Type: Constraining
- Topics: confsig-AGFA/QUADRAT-2.4-profile-accNE_accNE-Immediate

Encoding Method (s)

ER7, XML

Interaction 1

Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: NE
- Acknowledgement Mode: Immediate

Static Definition

- Message Type: MFN
- Trigger Event: M05
- Message Structure: MFN_M05
- Topics: confsig-AGFA/QUADRAT-2.4-static-MFN-M05-null-MFN_M05-2005.2.1--Receiver

Message structure

MSH MFI { MFE LOC {[LCH]} {[LRL]} { LDP {[LCH]} {[LCC]} } }

MSH - Message Header

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Field Separator	ST		1	R	1..1	e.g.
2	Encoding Characters	ST		4	R	1..1	e.g. ^~\&
3	Sending Application	HD		227	R	1..1	
3.1	namespace ID	IS		50	R	..	e.g. HIS
4	Sending Facility	HD		227	O	0..1	
4.1	namespace ID	IS		50	O	..	e.g. FACILITY1
5	Receiving Application	HD	HL70361	227	O	0..1	
5.1	namespace ID	IS		64	O	..	e.g. AGFA
6	Receiving Facility	HD	HL70362	227	O	0..1	
6.1	namespace ID	IS		50	O	..	e.g. FACILITY1
7	Date/Time Of Message	TS		26	R	1..1	
7.1	Date/Time	NM		24	R	..	e.g. 200511070945
9	Message Type	CM_MSG	HL70076	15	R	1..1	
9.1	message type	ID	HL70076	3	R	..	e.g. MFN
9.2	trigger event	ID	HL70003	3	R	..	e.g. M05
9.3	message structure	ID	HL70354	7	O	..	e.g. MFN_M05
10	Message Control ID	ST		20	R	1..1	e.g. 00000001
11	Processing ID	PT		3	R	1..1	
11.1	processing ID	ID	HL70103	3	R	..	e.g. P
12	Version ID	VID	HL70104	973	R	1..1	
12.1	version ID	ID	HL70104	60	R	..	e.g. 2.4
18	Character Set	ID	HL70211	16	O	0..*	e.g. 8859/1

1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2-encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message.

Recommended value and used by Agfa is |, (ASCII 124).

2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator.

Recommended values and used by Agfa Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise.

Entirely site-defined and a parameter for Agfa.

7. Date/Time Of Message

This field contains the date/time that the sending system created the message.

If the time zone is specified, it is expected to be the local time zone !

9. Message Type

Should be MFN^M05^MFN_M05

9.3. message structure

Only used when input is hl7 v2.xml

10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA).

11.1. processing ID

No difference in processing by HL7SERVER5 if Production or Test

12.1. version ID

Versions supported by HL7SERVER5 are 2.2, 2.3, 2.3.1, 2.4

18. Character Set

Character set has to be a subset of the Windows ANSI codepage of the pc where HL7SERVER5 is running !

e.g. ISO 8859/1 on a windows 1252 code page UTF-8 is not supported !

MFN - Master File Identification

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Master File Identifier	CE	HL70175	483	R	1..1	
1.1	identifier	ST		20	R	..	e.g. LOC
2	Master File Application Identifier	HD		227	O	0..1	
2.1	namespace ID	IS	HL70363	30	O	..	e.g. HIS_MFN
3	File-Level Event Code	ID	HL70178	3	R	1..1	e.g. UPD
6	Response Level Code	ID	HL70179	3	R	1..1	e.g. NE

1.1. identifier

Should be LOC for a departments masterfile

3. File-Level Event Code

Only "UPD" supported for the moment!

UPD - Change file records as defined in the record-level event codes for each record that follows

Below File-Level Event codes are NOT supported (only for informational purposes).

REP - Replace current version of this master file with the version contained in this message

If the file-level event code is "REP" (replace file), then each MFE segment must have a record-level event code of "MAD" (add record to master file).

6. Response Level Code

Required for HL7, but not used by HL7Server5.

Segment group: MF LOCATION

- Usage: Required
- Cardinality:1..*

MFE - Master File Entry

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Record-Level Event Code	ID	HL70180	3	R	1..1	e.g. MAD
3	Effective Date/Time	TS		26	O	0..1	
3.1	Date/Time	NM		14	O	..	e.g. 200511070945
4	Primary Key Value - MFE	VARIES		15	R	1..1	e.g. SJHMID
5	Primary Key Value Type	ID	HL70355	3	R	1..1	

1. Record-Level Event Code

Determines processing for the record:
insert, update, delete or deactivate

Supported codes:

MAC: reactivate

MAD: add

MDC: deactivate

MDL: delete

MUP: update

3. Effective Date/Time

Used for deactivate, delete, reactivate events.

4. Primary Key Value - MFE

Should match LOC-1

5. Primary Key Value Type

Required for HL7, but not used by HL7Server5.

LOC - Location Identification

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - LOC	PL		1230	R	1..1	
1.1	point of care	IS		15	R	..	e.g. SJHMID

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1.4	facility (HD)	HD		31	O	..	
1.4.2	universal ID	ST		3	O	..	e.g. SJH
1.9	Location description	ST		30	O	..	e.g. SJH Medical Imaging Dept
2	Location Description	ST		100	O	0..1	e.g. SJH Medical Imaging Dept
3	Location Type - LOC	IS	HL70260	1	R	1..1	e.g. D
4	Organization Name - LOC	XON		567	O	0..*	
4.3	ID number (NM)	NM		10	O	..	e.g. SJH
7	License Number	CE		483	O	0..2	
7.1	identifier	ST		100	O	..	
7.2	text	ST		100	O	..	
7.3	name of coding system	IS	HL70396	20	O	..	

1.1. point of care

Department ID

1.4.2. universal ID

Facility identifier

1.9. Location description

Department Name

2. Location Description

Department Name - only used when the department name is not specified in LOC-1

3. Location Type - LOC

Location type should be D or N for a department.

4. Organization Name - LOC

Facility - only used when not specified in LOC-1-4

4.3. ID number (NM)

Facility ID

7. License Number

Identifiers specified in this (repeating) field can be mapped to a RIS db field using parameters.
Supported db fields are hiscode, license, freefield1, freefield2, freefield3

7.2. text

Only used when LOC-7-1 is empty - storage is equal to storage of LOC-7-1

7.3. name of coding system

Coding system is used to determine in which db field to store the identifier

LCH - Location Characteristic

- Usage: Required but may be empty

- Cardinality:0..*

- Implementation note: Used to set department responsibilities (also known as FUS in Impax RIS).

Examples: CAN_REQUEST, CAN_EXECUTE

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - LCH	PL		1230	R	1..1	
1.1	point of care	IS		15	R	..	e.g. SJHMID

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
2	Segment Action Code	ID	HL70206	3	O	0..1	e.g. A
3	Segment Unique Key	EI		427	R	1..1	
3.1	entity identifier	ST		3	R	..	e.g. 1
4	Location Characteristic ID	CE	HL70324	483	R	1..1	
4.1	identifier	ST		3	R	..	e.g. FUS
5	Location Characteristic Value-LCH	CE	HL70136	483	R	1..1	
5.1	identifier	ST		20	R	..	e.g. CAN_REQUEST

3. Segment Unique Key

Unique ID per LCH segment - e.g. sequence number

4.1. identifier

Only characteristic FUS supported

5.1. identifier

Should be a value from CONSTANTS table of type FUS (e.g. CAN_REQUEST)

LRL - Location Relationship

- Usage: Required but may be empty

- Cardinality:0..*

- Implementation note: Used to link to a "parent" department.

Requires that the "parent" department already exists.

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - LRL	PL		1230	R	1..1	
1.1	point of care	IS		15	R	..	e.g. SJHMID
4	Location Relationship ID	CE	HL70325	483	R	1..1	
4.1	identifier	ST		3	R	..	e.g. PAR
6	Patient Location Relationship Value	PL		1230	R	1..1	
6.1	point of care	IS		15	R	..	e.g. SJH
6.9	Location description	ST		3	O	..	

4.1. identifier

Only PAR supported !

6.9. Location description

Not stored in database - only used in logging

Segment group: MF LOC DEPT

- Usage: Required

- Cardinality:1..*

LDP - Location Department

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - LDP	PL		1230	R	1..1	
1.1	point of care	IS		15	R	..	e.g. SJHMID
2	Location Department	CE	HL70264	483	R	1..1	
2.1	identifier	ST		15	R	..	e.g. SJHMID

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
7	Activation Date LDP	TS		26	O	0..1	
7.1	Date/Time	NM		24	O	..	e.g. 20040328
8	Inactivation Date - LDP	TS		26	O	0..1	
8.1	Date/Time	NM		24	O	..	e.g. 20040328

7.1. Date/Time

YYYYMMDDHHMMSS

services.s_datevalid

8.1. Date/Time

YYYYMMDDHHMMSS

services.s_dateinvalid

LCH - Location Characteristic

- Usage: Not supported

LCC - Location Charge Code

- Usage: Not supported

End of segment group MF_LOC_DEPT

End of segment group MF_LOCATION