

HL7 Conformance Profile

Inbound MFN M02 from HIS

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About this Conformance Profile

Conformance profile MFN M02 Inbound from HIS

HL7Server5 - Release 2005.3.3

This profile describes the MFN message structure that is used to import physicians from the HIS.

History:

2016-10-31 - Added support for HL7 v2.6 MFN^M02 inbound - Krishnan Padmanabhan
2008-11-19 - Added ZST segment - Nico
2006-04-27 - Bugfix address type required in STF-11 - Nico
2006-04-05 - Bugfix email address in STF-10
2006-01-25 - Update for release 2005.2.0 - Nico
2005-11-05 - 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.

Though HL7 version 2.6 messages are accepted, new fields are supported only up to and including HL7 version 2.5.

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message.
HL7Server5 only supports original mode acknowledgements, enhanced acknowledgement protocol is not supported.

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

- Event Description: MFN/MFK - Master file - staff practitioner
- Message Type: MFN
- Trigger Event: M02
- Message Structure: MFN_M02
- Topics: confsig-AGFA/QUADRAT-2.4-static-MFN-M02-null-MFN_M02-2005.3.3--Receiver

Message structure

MSH MFI { MFE STF {[PRA]} ZST }

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. M02
9.3	message structure	ID	HL70354	7	O	..	e.g. MFN_M02
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^M02^MFN_M02 for a physician masterfile

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 !

MFI - 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. PRA
2	Master File Application Identifier	HD		227	O	0..1	
2.1	namespace ID	IS		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 PRA or STF for a physicians 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 STAFF

- 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. PHYS1
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 STF-1

5. Primary Key Value Type

Required for HL7, but not used by HL7Server5.

STF - Staff Identification

- Usage: Required

- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - STF	CE		483	R	1..1	
1.1	identifier	ST		15	R	..	e.g. PHYS1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
2	Staff ID Code	CX		1913	O	0..*	
2.1	ID	ST		15	O	..	e.g. 993000046212
2.5	identifier type code (ID)	ID		15	O	..	e.g. RPPS
3	Staff Name	XPN		1103	R	1..1	
3.1	family name	FN		244	R	..	
3.1.1	surname	ST		100	R	..	e.g. Van Kerkhoven
3.2	given name	ST		30	R	..	e.g. Marcel
3.3	second and further given names or initials thereof	ST		12	O	..	
3.4	suffix (e.g., JR or III)	ST		3	O	..	e.g. JR.
3.5	prefix (e.g., DR)	ST		30	O	..	e.g. Dr.
8	Department	CE	HL70184	483	O	0..*	
8.1	identifier	ST		10	O	..	e.g. RAD
10	Phone	XTN		850	O	0..*	
10.1	[(999)] 999-9999 [X99999][C any text]	TN		15	O	..	
10.2	telecommunication use code	ID	HL70201	3	O	..	
10.3	telecommunication equipment type (ID)	ID	HL70202	8	O	..	e.g. PH
10.4	Email address	ST		199	O	..	
10.5	Country Code	NM		3	O	..	e.g. 32
10.6	Area/city code	NM		5	O	..	e.g. 3
10.7	Phone number	NM		9	O	..	e.g. 44481
10.8	Extension	NM		5	O	..	e.g. 00
11	Office/Home Address	XAD		631	O	0..*	
11.1	street address (SAD)	SAD		318	O	..	
11.1.1	street or mailing address	ST		254	R	..	e.g. Kortrijksesteenweg 150
11.2	other designation	ST		254	O	..	
11.3	city	ST		30	O	..	e.g. GENT
11.4	state or province	ST		3	O	..	
11.5	zip or postal code	ST		7	O	..	e.g. 9000
11.6	country	ID	HL70399	22	O	..	e.g. BEL
11.7	address type	ID	HL70190	3	R	..	e.g. M
12	Institution Activation Date	CM_DIN		510	O	0..1	
12.1	date	TS		16	O	..	
12.1.1	Date/Time	NM		14	O	..	e.g. 20101231
13	Institution Inactivation Date	CM_DIN		510	O	0..1	
13.1	date	TS		16	O	..	
13.1.1	Date/Time	NM		14	O	..	e.g. 20101231
16	Preferred Method of Contact	CE	HL70185	483	O	0..1	

1.1. identifier

Identifier used for the physician.

This identifier should be the same as the one used in the ADT messages.

2. Staff ID Code

Can be mapped to free fields in RIS.

Uses the value of component 5 - identifier type - for the mapping !

See parameters

STF2IdentifierTypeForFreeField1

STF2IdentifierTypeForFreeField2

STF2IdentifierTypeForFreeField3

When component 5 is not present but component 1 contains an ID, this ID is used a RIS physician ID.

France specific: stored in a separate table (DOCTOR_HIST_CODES) for use in billing.

8. Department

Departments in which the physician is working.

10.2. telecommunication use code

Only NET is supported. Required when telecommunication equipment is Internet.

Used to specify an internet email address.

10.3. telecommunication equipment type (ID)

Is used to determine the type of communication

PH, CP, BP = phone

FX, MD = fax

Internet = email address (requires NET in STF-10-2)

11. Office/Home Address

Multiple addresses can be registered for a physician, or multiple physician records can be created for each address.

The first occurrence is considered the default address.

IMPORTANT : Only 1 address per type supported !

11.1.1. street or mailing address

First address line

11.2. other designation

Second address line

11.7. address type

IMPORTANT : Only 1 address per type supported !

12. Institution Activation Date

Date active

13. Institution Inactivation Date

Date inactive - can be used instead of a delete message

16. Preferred Method of Contact

STF.16-1 = F + STF.10 contains FX --> defaultcarrier = STF.16

STF.16-1 = E + STF.10 contains NET --> defaultcarrier = STF.16

else if STF.16 contains another value --> defaultcarrier = P

PRA - Practitioner Detail

- Usage: Required but may be empty
- Cardinality:0..*

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	Primary Key Value - PRA	CE		483	C	0..1	
1.1	identifier	ST		15	R	..	e.g. PHYS1
3	Practitioner Category	IS		20	O	0..*	e.g. RESIDENT
5	Specialty	CM_SPD	HL70337	112	O	0..*	
5.1	specialty name	ST		10	R	..	e.g. RAD
6	Practitioner ID Numbers	CM_PLN	HL70338	101	O	0..*	
6.1	ID number (ST)	ST		11	O	..	e.g. 005098769
7	Privileges	CM_PIP		1413	O	0..1	
7.1	privilege	CE		483	R	..	
7.1.1	identifier	ST		20	R	..	e.g. INT
9	Institution	CE		483	O	0..1	
9.1	identifier	ST		10	O	..	e.g. FACILITY1
11	Government Reimbursement Billing Eligibility	CE	HL70401	483	O	0..*	
11.1	identifier	ST		20	O	..	e.g. RESIDENT

1. Primary Key Value - PRA

Should match MFE-4

3. Practitioner Category

Used to indicate if the physician is a resident or a fellow.
RESIDENT, NRESIDENT, FELLOW, NFELLOW

5. Specialty

Physician speciality identifier - only first component is used.

5.1. specialty name

Should match the speciality code configured in QManager

6. Practitioner ID Numbers

Only the first occurrence is used. Value is put in the "official id" field of the physicians record.

6.1. ID number (ST)

In Belgium this is used for the RIZIV number.

7. Privileges

Only one occurrence is supported !

Can be used to indicate that a physician is an internal physician.

7.1.1. identifier

Privilege identifiers that should be considered "internal physicians" can be specified in parameter
PractitionerPrivilegesCodesForInternalPhysicians

9. Institution

Main facility of the physician.

Only 1 occurrence supported.

9.1. identifier

Hospital ID

11. Government Reimbursement Billing Eligibility

Used to set specific flag for physicians

11.1. identifier

ACCR, NACCR, CONV, NCONV, STAGE, RESIDENT, NSTAGE, NRESIDENT, FELLOW, NFELLOW

ZST - Qbridge info

- Usage: Required
- Cardinality:1..1

Seq.	Name	Type	Table	Len.	Opt.	Card.	Contents
1	SoftwareID	SI		64	R	1..1	e.g. MDD

1. SoftwareID

Possible values: MDD, MISC, OMNI, MEDAR, PRODOC, HOJP, VESAL, HEALTH1, MEDICON, HL7, EDIFACT (from db table QBRIDGE_PAKKET)

End of segment group MF_STAFF