

# 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         |
| 2     | Staff ID Code                                      | CX   |         | 1913 | O    | 0..*  |                    |
| 2.1   | ID                                                 | ST   |         | 15   | O    | ..    | e.g. 99300046212   |
| 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           |

| Seq.   | Name                                  | Type   | Table   | Len. | Opt. | Card. | Contents                          |
|--------|---------------------------------------|--------|---------|------|------|-------|-----------------------------------|
| 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.<br>Kortrijksesteenweg<br>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 specialty 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**