**Medex – eMediAtt**

**Requirements for an incapacity notification for Medex**

**Version 2.1**

**14/11/2017**

# **History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Comments |
| 28/01/2016 | Marianne Beyers | 0.1 | Medex Requirements for an eMediAtt adapted to language of the data transmitted via eHealth platform |
| 26/02/2016 | Marianne Beyers | 0.2 | Version updated with remarks of Robin Bosman |
| 01/03/2016 | Marianne Beyers | 0.5 | Version updated with remarks of Robin Bosman and François Van Hees |
| 03/03/2016 | Marianne Beyers | 0.6 | Version updated with remarks of Robin Bosman |
| 09/03/2016 | Marianne Beyers | 0.7 | Added a constraint on accident date/ request date for dossier of occupational disease: must be equal or before the beginmoment of the incapacity period. |
| 6/04/2016 | Marianne Beyers | 1.0 | 1. Free comment zone: removed: Folder/transaction/item/content/text2. Value “incapacityrelapse”: removed in Folder/transaction/cd (TRANSACTION-TYPE):  |
| 20/05/2016 | Marianne Beyers | 1.1 | Added identification of eHbox of Medex |
| 18/07/2016 | Marianne Beyers | 1.2 | Sex of patient is not mandatory any more.  |
| 29/03/2018 | Marianne Beyers | 2.0 | Adaptations for Multi-eMediAtt |
| 14/11/2019 | Marianne Beyers | 2.1 | Adaptations for verification of INAMI/RIZIV number of a doctor |

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# **Description**

## GOAL

Goal of this document is to list constraint over data that will go through the eMediAtt process from Doctors to Medex using EH-Box. This are the Incapacity Notifications that have as recipient “Medex”, or recipient with eHbox id = 1990002015.

## REQUIREMENTS FROM MEDEX

In order to bring added value from the automatic transfer of certificate’s (eMediAtt’s), controls have to be set in the first step of the process (encoding by the doctor) to avoid:

* Correction workload by Medex agents
* Feedback mailing to Patients if content of the certificate is not valid.

Certificate’s not compliant to specifications listed on this document will not be treated and forwarded to Medex automatically.

They will be treated manually by an administrative agent.

A System Administrator will contact software provider’s responsible of delivering non-valid data.

## constraints for an eMediAtt

eHealth box of Medex:

The messages have to be sent to Medex’s eHBox, its destinationContext properties are :
- type                = EHP

- quality           = INSTITUTION\_EHP
- id                   = the eHbox ID of Medex   = 1990002015

Messages with destination Medex, sent to another eHbox will not be processed, and even cannot be opened because a security certificate must be installed to be possible to read the messages.

Meta Data:

A message in the eHbox of Medex must have as Custom Meta data following data with following values:

* MessageType=IncapacityNotification
* MessageVersion=1.0 or 2.0
* MessageFormat=FPS HFCSE

Medex will accept Incapacity Notification of version 1.0 or 2.0. The version 1.0 is the eMediAtt that is sent to Medex since 04/2014. The version 2.0 is the version that will go in production starting on 01/06/2018 and is called a Multi-eMediAtt because there are other possible destinations for the eMediAtt. The destinations must be found in the DAAS directory of eHealth. For info on the Multi-eMediAtt project see: <https://www.ehealth.fgov.be/ehealthplatform/nl/service-mult-emediatt>

Attachments of the message

Different attachments are possible, but at least one xml document that can be identified as a KHMER xml document must be present.

A pdf with the data in the XML document is recommended in case the incapacity notification cannot be treated automatically.

### Validations of the KHMER xml document:

* It must correspond to a standard KMEHR message

Errors on KMEHR validation received in the past are mainly:

* + Certain data are case sensitive e.g. values defined in reference table for the CD element. E.g.CD-ITEM, ID-KMEHR, ID-HCPARTY, LOCAL etc..
	+ In an eMediAtt no address data are mandatory, but when an address is mentioned certain fields are mandatory , like street number (tag must be present but can be empty)….….
* eHealth developed a schematron that can be built in the software to verify the structure of an incapacity notification. See

<https://www.ehealth.fgov.be/standards/kmehr/en/page/schematron>

* List of data and constraints (specific for Medex)

Header part:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
| standard | Header/standard/cd | S = "CD-STANDARD" SV = "1.8">20121001 | String | Mandatory |
| Id | Header/Id | S = "ID-KMEHR" SV = "1.0">11530231003.201112210907000000 | Number | MandatoryContains RIZIV number of the sender , followed by a “.” and a unique number that identifies the eMediAtt  |
| DateTime | Header/Date |  | date (KMEHR standard) | Mandatory |
| Header/time |  | time (KMEHR standard) | Mandatory |
| Sender’s software | Header/sender/hcparty/id | S="LOCAL" SV="5.2.1" SL="MyUsualSoftware" | String | Mandatory Contains Software name and version |
| Header/sender/hcparty/cd | S="CD-HCPARTY" SV="1.0" |  | Mandatoryvalue = application |
| Header/sender/hcparty/name |  |  | MandatoryContains software name |
| Doctors info | Header/sender/hcparty/id | S = "ID-HCPARTY" SV = "1.0" | Number(11) | Must contain doctors RIZIV number.RiZIV number or SSIN is mandatoryMust comply with modulo 97, 89, 83 or 79See <https://www.inami.fgov.be/fr/professionnels/autres/fournisseurs-logiciels/Pages/default.aspx> |
| Header/sender/hcparty/id | S = "INSS" SV = "1.6" | Number (11) | Must contain doctors SSIN number.RiZIV number or SSIN is mandatoryMust comply with modulo 97 |
| Header/sender/hcparty/cd | S = "CD-HCPARTY" SV = "1.6" |  | Mandatoryvalue = persphysician |
| Recipient = Medex | Header/sender/hcparty/cd | S = "CD-HCPARTY" SV = "1.6" |  | MandatoryValue = application |
|  | Header/sender/hcparty/name |  |  | MandatoryValue = medex |

Folder part

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
| Id | Folder/Id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
| Patient SSIN | Folder/patient/id | S = "ID-PATIENT" SV = "1.0" | String (11)  | MandatoryAlphanumeric field that must contain 11 numbersMust correspond to Modulo 97 |
| Patient first name | Folder/patient/firstname |  | String | The tag firstname is mandatory, but it can be left empty when person has no first name |
| Patient family name | Folder/patient/familyname |  | String | Mandatory |
|  |  |  |  |  |
| Patient language | Folder/patient/usuallanguage |  | String | MandatoryPossible values: fr, nl, de, en |
| ~~Sex of Patient~~ | ~~Folder/patient/sex~~ | ~~SV="1.0" S="CD-SEX">male~~ |  ~~String~~ | ~~According to KMEHR standard: Mandatory, but not (yet) checked by Medex~~~~Possible values: female, male, unknown, changed, undefined~~ |

Transaction part

When doctors info is not found in the transaction part, Medex takes the doctors info in the header part. For a standard KMEHR the author of the transaction is mandatory, so for an incapacity notification for Medex usually both parts contain the doctors info.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
| Transaction info | Folder/transaction/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
| Folder/transaction/cd  | S = "CD-TRANSACTION" SV = "1.5" | String  | MandatoryValue = notification |
| Folder/transaction/cd | "CD-TRANSACTION-TYPE" SV = "1.1" | String | MandatoryPossible values:* incapacity
* incapacityextension
* incapacityrelapse
 |
| Date used as certificate date in Medex | Folder/transaction/date |  | Date | Mandatory |
| Folder/transaction/time |  | Time | Mandatory |
| Doctors info | Folder/transaction/author/hcparty/id | S = "ID-HCPARTY" SV = "1.0" | Number(11) | Must contain doctors RIZIV number.RIZIV number or SSIN is mandatoryMust comply with modulo 97, 89, 83 or 79See <https://www.inami.fgov.be/fr/professionnels/autres/fournisseurs-logiciels/Pages/default.aspx> |
| Folder/transaction/author/hcparty/id | S = "INSS" SV = "1.6" | Number (11) | Must contain doctors SSIN number.RIZIV number or SSIN is mandatoryMust comply with modulo 97 |
| Folder/transaction/author/hcparty/cd | S = "CD-HCPARTY" SV = "1.6" |  | MandatoryValue = persphysician |
|  | Folder/transaction/iscomplete |  |  | MandatoryValue = true |
|  | Folder/transaction/isvalidated |  |  | MandatoryValue = true |

Item part

Two items are mandatory: Incapacity and diagnosis

Information about an hospitalization is optional; and 4 items are used to describe the hospitalisation:

Incapacity item:

Only one incapacity items is possible, it must have in Folder/transaction/item/cd/content/incapacity/cd the value = “work”.

The values allowed in “Folder/transaction/item/content/incapacity/incapacityreason/cd” are strictly limited to the list defined below for a eMediAtt for Medex.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
| Id | Folder/transaction/item/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
| Cd | Folder/transaction/item/cd | S = "CD-ITEM" SV = "1.6" | string | MandatoryValue = incapacity |
|  | Folder/transaction/item/content/incapacity/cd | S = "CD-INCAPACITY" SV = "1.1" | string | MandatoryValue = work |
|  | Folder/transaction/item/content/incapacity/incapacityreason/cd | S = "CD-INCAPACITYREASON" SV = "1.1" | string | MandatoryPossible values:

|  |
| --- |
| * illness
 |
| * hospitalisation
 |
| * sickness
 |
| * pregnancy
 |
| * workaccident
* traveltofromworkaccident
 |
| * occupationaldisease
 |

 |
|  | Folder/transaction/item/content/incapacity/outofhomeallowed |  |  | MandatoryPossible values:

|  |
| --- |
| * true
 |
| * false
 |

 |
|  | Folder/transaction/item/content/date |  |  | Optional fieldBut mandatory when incapacityreason = workaccident or traveltofromworkaccident; this field must contain the accident date.when incapacityreason = occupationaldisease this field must contain the request date for a dossier for occupatialdesease.This date must be < or = beginmoment of the incapacity period. |
|  | ~~Folder/transaction/item/content/text~~ |  | ~~string~~ | ~~Optional~~ This field is not used by Medex |
|  | Folder/transaction/item/beginmoment/date |  | date | MandatoryBeginmoment must be < or = End moment |
|  | Folder/transaction/item/endmoment/date |  | date | Mandatory |

Diagnosis item:

A Diagnosis item is mandatory and more than one is allowed

The diagnosis can be described by a text field. This property is optional (This is free text and the doctor can describe different diagnoses)

The main diagnosis must be defined by a code. Because different coding system exists, the coding system and version must be mentioned.

When a code is filled in, the coding system and version are mandatory. Coding system is put in attribute “S”, Coding version is put in attribute “SV” example

S = "ICD" SV = "10">R05

Note : for the moment the Medex system accepts that diagnosis is described either by a text field or by a code, or by both. In the future the code will become mandatory.

Description of one item “Diagnosis”:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
|  | Folder/transaction/item/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
|  | Folder/transaction/item/cd | S = "CD-ITEM" SV = "1.6" | string | MandatoryValue = diagnosis |
| Diagnosis in Code form; differed examples | Folder/transaction/item/content/cd | S = "ICD" SV = "10" | string | At least one CD is mandatory |
| Folder/transaction/item/content/cd | S = "ICPC" SV = "2" | string |  |
| Folder/transaction/item/content/cd | S = " CD-SNOMED " SV = "2" | string |  |
| Diagnosis in text | Folder/transaction/item/content/text | L = "nl" | string | Optional |

A practical example of the diagnosis for version 1:

Person suffers from two diseases, e.g. Migraine and a flu. In the text field of the diagnosis the doctor can mention both, but the diagnosis described in code form can contain only the diagnosis that doctor considers to be the “main” diagnosis. The main diagnosis can be described by different coding system, but it is always the same diagnosis.

In version 2 more than one diagnosis can be given. The first diagnose item we receive will be considered as “main” diagnose.

“EncounterType” hospitalisation item (4 possible items):

Information about an hospitalization is optional information.

The doctor can specify the name of the hospital, the address and the start date and end date of hospitalisation.

Medex will only use the start and end date of the hospitalization.

To identity the hospitalization the first item is mandatory and if this item is present the 2 items with start and end date of the hospitalization are mandatory also.

Hospitalisation: item 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
|  | Folder/transaction/item/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
|  | Folder/transaction/item/cd | S = "CD-ITEM" SV = "1.11" | string | MandatoryValue = encountertype |
|  | Folder/transaction/item/content/ | S="**CD-ENCOUNTER**" SV="**1.1**"  | string | MandatoryValue = **hospital** |

Hospitalisation: item 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
|  | Folder/transaction/item/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
|  | Folder/transaction/item/cd | S = "CD-ITEM" SV = "1.11" | string | MandatoryValue = encounterdatetime |
| Start date hospitalisation | Folder/transaction/item/content/date |  | Date | MandatoryContains the start date of hospitalization. The date must be < or = the end date of hospitalisation |

Hospitalisation: item 3:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Field and Path in KHMER** | **Specific KHMER Definition** | **Type** | **Constraint** |
|  | Folder/transaction/item/id | S = "ID-KMEHR" SV = "1.0" |  | Mandatory |
|  | Folder/transaction/item/cd | S = "CD-ITEM" SV = "1.11" | string | MandatoryValue = dischargedatetime |
| Start date hospitalisation | Folder/transaction/item/content/date |  | Date | MandatoryContains the end date of hospitalization.  |

The items with the name and address of the hospital are optional for Medex.