**Medex – eMediAtt**

**Test scenario’s for an incapacity notification for Medex**

**Version 0.2**

**29/07/2016**

# **History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Comments |
| 20/05/2016 | Marianne Beyers | 0.1 | Initial version |
| 29/07/2016 | Marianne Beyers | 0.2  | Updates after remarks from François Van Hees (eHealth) |

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# **Introduction**

Goal of this document is to describe

* Scenarios that result in the sending of a correct eMediAtt to the eHealth box of Medex.
* Scenarios that may not result in the sending of an eMediAtt to the eHealth box of Medex. Those scenarios must give an error message in the doctor’s application and oblige him to correct his data before he can submit an eMediAtt to Medex.

Exact error messages are not described in this document.

The general requirements for a KMEHR message are not taken into consideration for the Medex tests.

Software vendors build their own implementation. But the results must comply with the requirements expressed in the document “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

The scenarios must be executed by the different software vendors during a mini - lab organized by eHealth.

Results of the scenario’s must be written down in a Excel file (See example Test Result\_software.xlsx; software must be replaced by the name of the software the scenarios are executed with)

# **Set Up of the test environment**

##  Services urls needed for sending an eMediAtt via eHealth platform:

|  |  |  |
| --- | --- | --- |
| **Service** | **Acceptance environment** | **Production environment** |
| Requestor | http://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor\_nl.jnlphttp://wwwacc.ehealth.fgov.be/JWS/ETEE/etee-requestor\_fr.jnlp | http://www.ehealth.fgov.be/JWS/ETEE/etee-requestor\_nl.jnlphttp://www.ehealth.fgov.be/JWS/ETEE/etee-requestor\_fr.jnlp |
| STS | https://wwwacc.ehealth.fgov.be/sts\_1\_1/SecureTokenService  | https://www.ehealth.fgov.be/sts\_1\_1/SecureTokenService |
| ETK depot | https://services-acpt.ehealth.fgov.be/EtkDepot/v1 | https://services.ehealth.fgov.be/EtkDepot/v1 |
| eHBox | https://services-acpt.ehealth.fgov.be/ehBoxPublication/v3https://services-acpt.ehealth.fgov.be/ehBoxConsultation/v3 | https://services.ehealth.fgov.be/ehBoxPublication/v3https://services.ehealth.fgov.be/ehBoxConsultation/v3 |

## Test users and certificates

The user are “general practitioners”.

Each software vendor has to use his Test User (RIZIV number of fictive doctor) and install the certificate he received for the test environment from eHealth.

## Test infrastructure

Each software vendor has to bring his own PC with the software installed on it.

He will have an internet connection provided by eHealth, so he can send messages to the eHbox of Medex in the acceptance environment.

## Excecution of the Test

Below there are different scenario’s described.

User must log on as “doctor” and execute the scenario.

Scenario’s end in the sending of a message to the eHbox of Medex and eHealth will attribute a eHealth message ID.

This eHealth message ID must be written down in the Excel file with the test results “Test Result\_software.xlsx”, so Medex can verify that message is correctly received.

For certain scenario’s there is an error message displayed. This must be “proved” by a print screen of the error message. Name of the printscreen file, must be indicated in the Excel file with test results. (Naming Convention: number of the scenario + software) When certain error messages are not possible to reproduce, it must be explained in the comment column of the Excel file with test results.

#  Technical properties of the messages sent

* The eMediAtts must be sent automatically to the eHbox of Medex
* The destination Context properties are: (identical in test as Production) :
	+ type              = EHP
	+ quality          = INSTITUTION\_EHP
	+ id                   = the eHbox ID of Medex
* Custom Meta Data are:
	+ MessageType = IncapacityNotification
	+ MessageVersion =1.0
	+ MessageFormat = FPS HFCS
* There must be at least one attachment of format XML. That XML must comply with the KMEHR standards of eHealth). This means that it must pass the xsd validations of a KMEHR.
* As the complete format is not defined by an xsd, the following fields may not be missing, the format of different fields must be checked and in certain cases the content must be correct (apply to module 97 e.g.). If there are errors detected this will give an error mail from the Medex system. (in the future an eHealth Response message with negative status codes).
	+ Header part :
		- Header/standard/cd is missing
		- Header/id is missing
		- Header/Date and time the message is sent is missing
		- Name of the software is missing
			* Header/sender/hcparty/id: contains software name and version
			* Header/sender/hcparty/cd= “application” is missing
			* Header/sender/hcparty/name: contains name of the software
		- Identification of the doctor is missing (RIZIV number and SSIN of doctor) And identification of doctor is missing in the Transaction part
			* Header/sender/hcparty/id S= “INSS”: is missing AND
			* Header/sender/hcparty/id S= “ID-HCPARTY”: is missing
			* Header/sender/hcparty/cd = “persphysician” is missing
		- Identification of the doctor contains errors:
			* SSIN: < > than 11 characters; e.g. person born in year 2000 and leading zero’s are lost or SSIN followed by blancs
			* SSIN does not correspond to modulo 97
			* RIZIV <> than 11 characters
			* RIZIV does not correspond to modulo 97
		- Recipient “Medex” missing
			* Header/sender/hcparty/cd = “application” is missing
			* Header/sender/hcparty/name = “medex” is missing
	+ Transaction part
		- Folder/transaction Id is missing
		- Folder/transaction/cd/transaction is <> “notification”
		- Folder/transaction/cd/transaction-type is <> “incapacity” or “incapacityextension”
		- Folder/transaction/date is missing or no date format
		- Folder/transaction/time is missing or no time format
		- Identification of the doctor is missing (RIZIV number and SSIN of doctor) And identification of doctor is missing in the Header part
			* Folder/transaction/author/hcparty/id (with SSIN): is missing AND
			* Folder/transaction/author/hcparty/id (with RIZIV): is missing
			* Folder/transaction/author/hcparty/cd = “persphysician” is missing
		- Identification of the doctor contains errors:
			* SSIN: < > than 11 characters; e.g. person born in year 2000 and leading zero’s are lost or SSIN followed by blancs
			* SSIN does not correspond to modulo 97
			* RIZIV <> than 11 characters
			* RIZIV does not correspond to modulo 97
		- Folder/transaction/iscomplete <> “true”
		- Folder/transaction/isvalidated <> “true”
	+ Patient part
		- Folder/Id is missing
	+ Incapacity item
		- Folder/transaction/item/id is missing
		- Folder/transaction/item/cd is <>  “incapacity”
		- Folder/transaction/item/content/incapacity/cd <> « work »
	+ Diagnosis item
		- Folder/transaction/item/id is missing
		- Folder/transaction/item/cd <> « diagnosis »
* The message must be sent encrypted.

Note: There are no test scenarios for all of the above mentioned possible errors, because when the sending of an eMediAtt is correctly implemented in the software it is not possible to create those errors.

But those cases will be checked by the Medex system and practice learned that those errors happen.

# **Positive tests Scenarios**

A positive test scenario:

* The Message is sent to the correct eHealthbox (identification of eHbox of Medex is correct)
* All custom meta data Medex requests are present
* There is a KMEHR XML file attached to the message.
* The KMEHR complies with the standard validation of a KMEHR message
* The KMEHR complies with the requirements requested by Medex; All mandatory fields present. The format of the fields is correct and verifications between fields are correct.

An example of a correct XML KMEHR message for the different message variations can be found here.

* Illness
* Prolongation illness
* Hospitalization
* Prolongation hospitalization
* Sickness
* Prolongation sickness
* Pregnancy
* Workaccident
* Prolongation workaccident
* Occupationaldisease
* Prolongation occupationaldisease

## Scenario : Illness

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>

## Scenario : Illness - Prolongation

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of illness and fills in:

* + Begin date
	+ End date
	+ Prolongation= yes
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>

## Scenario : Hospitalization

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of Hospitalization and fills in

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Hospitalization - prolongation

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of Hospitalization and fills in

* + Begin date
	+ End date
	+ Diagnose
	+ Prolongation= yes
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Pregnancy

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of pregnancy and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : work accident

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of work accident and fills in:

* + Begin date
	+ End date
	+ Accident date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : work accident - Prolongation

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of work accident and fills in:

* + Begin date
	+ End date
	+ Accident date
	+ Prolongation= yes
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : professional illeness

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of professional illness and fills in:

* + Begin date
	+ End date
	+ Request date of professional illness dossier
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : professional illeness - Prolongation

1. User selects a patient and enters the data in the medical file of the patient.

He indicates an incapacity to work because of professional illness and fills in:

* + Begin date
	+ End date
	+ Prolongation= yes
	+ Request date of professional illness dossier
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

# **Negative tests Scenarios**

Software must give an error message when doctor requests to send an eMediAtt to Medex when the data he filled in in the medical dossier of the patient are not compliant with the requirements of Medex.

The doctor will be obliged to correct the data before he can request the sending to Medex.

Overview of the different possible errors:

* Patient Data:
	+ SSIN: (Folder/patient/id)
		- SSIN: <> than 11 characters; e.g. person born in year 2000 and leading zero’s are lost
		- SSIN does not correspond to modulo 97
		- SSIN is missing
	+ First name: (Folder/patient/firstname)
		- Person has no First Name: Tag first name must be present (can be empty)
	+ Last name: (Folder/patient/familyname)
		- Field is missing
	+ Patient birth date: (Folder/patient/birthdate/date)
		- Date is missing
		- Date has no date format

🡪 Those data can be deduced from the electronic identity card; this will reduce the number of errors. Otherwise the doctor must correct the data manually.

* + Patient language: (Folder/patient/usuallanguage)
		- Language is missing:
		- Language has not a correct value (fr,nl, de,en)

🡪 The doctor must receive an error message and fill in the patient language (fr,nl, de,en) or if language is different from fr, nl, de or en, system must take “en” as language.

* Incapacity item:
	+ Incapacity reason: (Folder/transaction/item/content/incapacity/incapacityreason/cd)
		- Incapacity reason is missing
		- Incapacity reason has not a correct value (illness, hospitalization, sickness, pregnancy, workaccident, occupationaldisease)
	+ Out of Home allowed: (Folder/transaction/item/content/incapacity/outofhomeallowed)
		- Out of home allowed is missing
		- Out of home allowed has not a correct value
	+ Accident date or Request date for a dossier (Folder/transaction/item/content/date)
		- Incapacity reason = “workaccident” or “occupationaldesease” and the accident date/request date for a dossier is missing
		- Accident Date or request date for a dossier has not a Date format
		- Accident Date or request date for a dossier > beginmoment
	+ Begin moment (Folder/transaction/item/beginmoment/date)
		- Beginmoment is missing
		- Beginmoment > endmoment
	+ End moment (Folder/transaction/item/endmoment/date)
		- Endmoment is missing
		- Endmoment < beginmoment

🡪 The doctor must receive an error message and correct the data

* Diagnosis item:
	+ Diagnose as free text: (Folder/transaction/item/content/text)
		- Diagnose as free text is missing
	+ Diagnose described by a code: (Folder/transaction/item/content/cd)
		- Diagnose described by a code is missing

🡪 The doctor must receive an error message and correct the data if diagnose is not given as text and not as code.

## Scenario : SSIN incorrect format

1. User selects a patient. This patient has not a correct format in his medical file.
	1. SSIN has less than 11 characters: ‘121325253’ (person born in 2000 and leading zeros are lost)
	2. SSIN has more than 11 characters ‘70110613667 ‘ (SSIN followed by blancs)
	3. SSIN does not correspond to modulo 97 : ‘70110613668’

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System gives for the 3 cases an error message.
3. User corrects the SSIN
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Person without first name

1. User selects a patient. This patient has no first name in his medical file.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System sends the message defined as “Incapacity notification” for Medex.

The Tag Firstname in Folder/patient/ is present, but is empty.!

See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Person without last name

1. User selects a patient. This patient has no last name in his medical file.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects the patient data and fills in the Last name of the patient
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Person with error on birth date

1. User selects a patient. This patient has an error on his birth date in his medical file.
	1. Patient has no birth date
	2. Patient has incorrect birth date (e.g. 30/02/2016)

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects the patient data and fills in or corrects the birth date.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Person without language code

1. User selects a patient. This patient has no language code in his medical file.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects the patient data and fills in the language.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex.

Perhaps a translation is necessary. See languages codes permitted for Medex.

See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Incapacity reason missing

1. User selects a patient.

He indicates an incapacity to work. He fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of Home allowed

But he does not indicate the reason of the incapacity.

1. User requests sending to Medex
2. System gives an error message.
3. User corrects and indicates the reason.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Out of Home allowed missing

1. User selects a patient.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End date
	+ Diagnose
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and indicates the reason.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

Note: This scenario depends of the implementation in the software. When there is a default value for “out of home allowed”, (e.g. a Check box) it is not possible to execute this scenario.

## Scenario : Accident date missing for reason “workaccident”

1. User selects a patient.

He indicates incapacities to work with reason “workaccident” and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and indicates the accident date.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Request date missing for reason “professional illness”

1. User selects a patient.

He indicates incapacities to work with reason “professional illness” and fills in:

* + Begin date
	+ End date
	+ Diagnose
	+ Out of home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and indicates the “Request date of professional illness dossier”.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Begin date missing

1. User selects a patient.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + End date
	+ Diagnose
	+ Out of home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and fills in the Begin date.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : End date missing

1. User selects a patient.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ Diagnose
	+ Out of home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and fills in the End date.
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : End date before begin date

1. User selects a patient.

He indicates one of the incapacities to work described above in the positive scenarios e.g. because of illness and fills in:

* + Begin date
	+ End Date < Begin Date
	+ Diagnose
	+ Out of home allowed
1. User requests sending to Medex
2. System gives an error message.
3. User corrects and fills in the End date > or = Begin Date
4. User requests sending to Medex again
5. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.

## Scenario : Combination of the above scenario’s (from 7.1 to 7.12)

1. User enters the data according to a combination of the different scenario’s
2. User requests sending to Medex
3. System gives the different error messages, according to the data entered by the user
4. User corrects until all errors have been solved.
5. User requests sending to Medex again
6. System sends the message defined as “Incapacity notification” for Medex. See requirements in “eMediAtt - Requirements for an incapacity notification for Medex” - See more at: <http://www.health.belgium.be/en/emediatt-ehealth-documentation#sthash.uHHAfykq.dpuf>.