

eHealth platform – WG Architecture Hub service "getLatestUpdate" : functional description

Version	Date	Description
3.0	09/02/2017	Hubservices v3

Introduction

This document aims to provide the *functional description* of the service 'getLatestUpdate' that may be provided by a hub to its clients (hospitals, GP server, etc.).

The description is limited to functional elements: purpose, business XML messages. Pragmatic considerations such as security and WSDL descriptions are out-of-scope of this document. The description does not include the overall usage conditions that have to be implemented by the hubs (e.g. regarding the legal aspects).

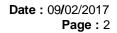
This document is a part of KMEHR specification. (https://www.ehealth.fgov.be/standards/kmehr/)

The document is structured as follows:

We first provide a 'functional description' of the service (purpose, input and output parameters independently of their XML representation ...).

We then translate this functional description into a KMEHR service (i.e. we describe the excepted input and output messages)

This document does not contain any XML example. Those examples are available on the kmehr site.





1 Functional description

This operation offers the possibility to retrieve the time of the last change made to a transaction. This allows the consumer software to know whether their data is the latest.

Service name	getLatestUpdate
Purpose	This service service offers the possibility to retrieve the time of the last change made to a transaction. This allows the consumer software to know whether their data is the latest.
Input parameters	 the identifier of a patient P the type transaction the sender S of the request, i.e. the healthcare party that performs the operation call information about the request: id, date, time, "break the glass" (optional)
Output parameters	 the initial request an acknowledge indicating the completion of the request list of latest updates for the given patient and transaction type
Post-condition	
Possible exceptions	 Technical error Invalid sender (according to the rules of the hub) Invalid transaction type Invalid patient identifier



	 S is not accredited within the hub S is not allowed to perform the operation according to the hub rules No consent found of the required type for P No therapeutic link between S and P External hub unavailable
Comments	 About the "Sender": the sender must at least identify the organization responsible of the caller system. For this specific operation that is a consultation operation, it should also identify the healthcare party corresponding to the end-user. About external transaction updates: if the update of the transaction comes from another hub, the verification of the rules that justify the consultation (patient consent, therapeutic link) is under the responsibility of the requestor hub.

2 Message description

2.1 Syntax: XSchema

Operation name	GetLatestUpdate
Input data	request x select
Output data response x acknowledge x latestupdatelist	

2.2 Semantics: rules and interpretation

2.2.1 Input data

The 'request' parameter gathers the elements relative to the

information about the request: id, date, time, "break

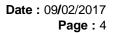
the glass" (optional)

sender of the request.

The 'select' parameter gathers the elements relative to the

identifier of the patient type of transaction

Parameter	Attributes	Comments





request	id [1]	Identification of the request within the caller system.	
	author [1]	The sender of the request represented as a sequence of <i>hcparty</i> elements. It must at least contain the healthcare party corresponding to the organization responsible of the system.	This information must be coherent with the information provided in the technical identification and authentication system (e.g. certificate).
		For this specific operation that is a consultation operation, it should also identify the healthcare party corresponding to the end-user.	If the caller is the end-point for the encryption mechanism, S contains the elements needed to retrieve its Encryption Token Key from the eHealth ETK depot.
	date [1]	Date of request	
	time [1]	Time of request	
	breaktheglass [0-1]	Activates "break the glass" procedure	Therapeutic link is not verified, a reason must be given in field breaktheglass
select	patient [1]	Patient concerned by the transaction update.	Contains only the identifiers of the patient. All interhub exchanges will exclusively rely on the INSS number.
	cd [1-n]	Type of transaction concerned by the update.	One or more cd from CD- TRANSACTION



2.2.2 Output data

The 'response' parameter gathers the elements relative to the

information about the response (id, date, time),

initial request,

the sender of the response.

The 'acknowledge' parameter gathers the element relative to the

service completion,

errors or exceptions that occurred during the service execution (only if the service completion is set to 'false').

The latestupdatelist contains the requested updates for the patient and type of transaction.

Parameter	Attributes		Comments
response	id [1]	Identifier of the response within the target hub	The response is supposed to be built by the last
	author [1]	Sender of the response	hub before the hospital owner.
	date [1]	Date of response	The sender will
	time [1]	Time of response	thus be composed of the hub and
	request [1]	Initial request	hospital owner of the transaction.
acknowledge	iscomplete [1]	Indicates if the execution has been	The execution is successful if the transaction is
	error [0-*]	Indicates the error/exception	returned.
latestupdatelist.latestupd ate [1-n]	patient [1]	Patient concerned by the transaction update.	Contains only identifiers of the patient. All intehub exchanges will exclusively rely on the INSS number.
	cd [1]	Type of transaction updated.	One or more cd from CD- TRANSACTION
	version [0-1]	Version of the transaction updated (optional)	
	createdatetime [0-1]	Timestamp of the creation (optional)	
	updatedatetime [1]	Timestamp of the update	