
eHealth platform – G19 report

Hub service “putTherapeuticLink” : functional description

Version	Date	Description
1.0	30/07/2010	First release hub – metahub system.
1.1	25/03/2015	Review

Introduction

This document aims to provide the *functional description* of the service ‘putTherapeuticLink’ that should be provided by each 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 expected input and output messages)

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

1 Functional description

We only describe the functional elements of the service; the technical elements related e.g. to the reading of the eID of the patient by the GP or the specialist outside the hospital should be included in the technical specification of the service.

Service name	putTherapeuticLink
Purpose	This service should be used to declare a therapeutic link between a patient and an healthcare party within a hub.
Input parameters	<ul style="list-style-type: none"> - the therapeutic link L that is determined by: <ul style="list-style-type: none"> the identifier of a patient P the identifier of an healthcare party HCP the type TL of therapeutic link, i.e., for instance <ul style="list-style-type: none"> o within a hospital <ul style="list-style-type: none"> § for an hospitalization, § for an ambulatory treatment, § for a contact within an urgency service or 'SMUR/MUG' intervention. the start date SD of the therapeutic link the end date ED of the therapeutic link (optional) a comment to justify the creation of a therapeutic link (optional) <ul style="list-style-type: none"> - the sender S of the request, i.e. the healthcare party that performs the operation call - information about the transaction (id/date/time)
Output parameters	<ul style="list-style-type: none"> - the initial request - an acknowledge indicating the completion of the request
Post-condition	<p>the therapeutic link is always created and the end date is initialized as the minimum between</p> <p style="padding-left: 40px;">SD + the legal duration corresponding to TL</p> <p style="padding-left: 40px;">ED.</p>
Possible Exceptions	<ul style="list-style-type: none"> - Technical error - Invalid or incorrect data : <ul style="list-style-type: none"> - Invalid patient identifier - Invalid healthcare party identifier - Invalid type of the therapeutic link - Invalid start date of the therapeutic link - Invalid end date of the therapeutic link - S is not accredited within the hub

	<ul style="list-style-type: none"> - S is not allowed to perform the operation according to the hub rules - There is no active consent for P - There is no active consent for HCP - The start date is posterior to the current date - The end date is anterior to the current date
Comments	<ul style="list-style-type: none"> - Identification of therapeutic link: to identify a therapeutic link, one needs a patient identifier, an healthcare party identifier and a type and a start date of the therapeutic link. Thus, it is possible to have several active therapeutic links between a patient and an healthcare. - Identification of patient: we strongly recommend the use of the INSS number. However, at the request of some hubs, each hub may make the choice to use a local identification system for this service. Let us recall that all interhub exchanges will exclusively rely on the INSS number. - Identification of healthcare party: an healthcare professional is identified by its INSS number and NIHI number (if available); a hospital is identified by its NIHI number. - Update of therapeutic link: if a therapeutic link of the same type already exists between the healthcare party and the patient, the end date of the therapeutic link will be updated.

2 Message description

2.1 Syntax: XSchema

Operation name	putTherapeuticLink
Input data	request x therapeuticlink
Output data	response x acknowledge

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),
sender of the request.

The 'therapeuticlink' parameter covers the
therapeutic link data,
patient identifier,
healthcare party identifier.

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>hparty</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 (eg certificate).
	date [1]	Date of request	
	time [1]	Time of request	
therapeuticlink	patient [1]	The identifier of the patient concerned by the therapeutic link	Several identifiers of the same patient are allowed.
	hparty [1]	The identifier of the healthcare party concerned by the therapeutic link	Must at least include NIHL or INSS number according to the type of HCParty. Other local identifiers are allowed.
	cd [1]	The type of therapeutic link	Must contain one value of the table CD-THERAPEUTICLINKTYPE.
	startdate [1]	The date of the therapeutic link creation	
	enddate [0-1]	The date of the therapeutic link revocation	
	comment [0-1]	The comment to justify the creation of a therapeutic link	

2.2.2 Output data

The 'response' parameter gathers the elements relative to the information about the response (id, date, time), initial request, sender of the response.

The 'acknowledge' parameter gathers the element relative to the service completion, errors or exceptions that occurred during the service execution.

Parameter	Attributes		Comments
response	id [1]	Identifier of the response within the target hub	

	author [1]	Sender of the response: the target hub	
	date [1]	Date of response	
	time [1]	Time of response	
	request [1]	Initial request	
acknowledge	iscomplete [1]	Indicates if the execution has been successfully completed	The execution is successful if the therapeutic link has been correctly stored within the hub.
	error [0-*]	Indicates the error/exception descriptions	