



eHealth platform – G19 report Hub service "putHCParty": functional description

Version	Date	Description	
1.0	30/07/2010	First release hub – metahub system.	

Introduction

This document aims to provide the *functional description* of the service 'putHCParty' 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 excepted input and output messages)

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

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1 Functional description

The allowed types of healthcare parties should be the ones allowed within therapeutic links. For example, if the hub deals with healthcare professionals at the therapeutic links level, the service should support the declaration of healthcare professionals.

Concretely, this service should support two major categories of healthcare parties:

- healthcare professionals (limited, in a first step, to physicians);
- healthcare organizations (limited, in a first step, to hospitals).

Service name	putHCParty		
Purpose	This service should be used to create an healthcare party within a hub. It can also be used to update the information about this healthcare party.		
Input parameters	- an healthcare party HCP with at least the identifier, the type and with the following minimal information:		
	- for an organization, an address and a denomination		
	- for a professional, a first and last names.		
	- the date and time DT of recording within the caller system		
	- the sender S of the request, i.e. the healthcare party that performs the operation call		
	- information about the transaction (id/date/time)		
Output	- the initial request		
parameters	- an acknowledge indicating the completion of the request		
	- the healthcare party as stored in the hub after the call		
Post-condition	- If there is no healthcare party with the same identifier and type, the healthcare party is created		
	- If there is an healthcare party with the same identifier and type with a record time anterior to DT, the data are updated. More precisely the provided fields replace the old ones but the optional fields, that are empty in the request, are kept within the hub.		
Possible	- Technical error		
exceptions	- Invalid data :		
	Invalid sender (according to the rules of the hub)		
	Invalid type of healthcare party (according to the rules of the hub)		
	Invalid healthcare party identifier		
	Minimal information missing about the healthcare party (according to its type)		
	- S is not accredited within the hub		
	- S is not allowed to perform the operation according to the hub rules		
	- A more recent update has been performed		

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Comments	- About the "Sender": the sender must at least identify the organization responsible of the caller system. According to the hub rules (e.g. regarding logging and access management), it could also identify the healthcare party corresponding to the end-user
	- Identification of healthcare party: an healthcare professional is identified by its INSS number and NIHII number (if available); a hospital is identified by its NIHII number.
	- Update of healthcare party : this method should be used carefully when performing updates, because a call with wrong data can erase correct but less recent information.

2 Message description

2.1 Syntax: XSchema

Operation name	PutHCParty
Input data	request x hcparty
Output data	response x acknowledge x hcparty

2.2 Semantics: rules and interpretation

2.2.1 Input data

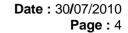
The 'request' parameter gathers the elements relative to the

- information about the request (id, date, time),
- sender of the request.

The 'hcparty' parameter covers

- the data of healthcare party,
- the date/time of recording.

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 hcparty elements. It must at least contain the healthcare party corresponding to the organization responsible of the system.	coherent with the information provided in the technical identification and authentication system (eg





	date [1]	Date of request		
	time [1]	Time of request		
hcparty	id [1-*]	Identifier of the healthcare party	This is the NIHII or INSS number according to the type of hcparty. Other local identifiers are allowed.	
	cd [1-*]	Type of healthcare party	Must at least contain a value from CD-HCPARTY.	
	firstname [0-*]	First name for a person	Mandatory for a physical person.	
	familyname [0-1]	Family name for a person		
	name [0-1]	Name of the organization	Mandatory for an organization.	
	address [0-*]	Home, work, address(es) of the healthcare party		
	telecom [0-*]	Fax, phone, number(s) of the healthcare party		
	recorddatetime [1]	Date/time of the recording within the caller system		

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.

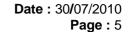
The 'acknowledge' parameter gathers the element relative to the

- service completion,
- errors or exceptions that occurred during the service execution.

The 'hcparty' parameter covers

- the data of healthcare party as stored within the hub,
- the date/time of recording.

Parameter	Attributes		Comments
response	id [1]	Id 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 The execution is been successfully completed successful if the hcparty has been correctly stored error [0-*] Indicates the error/exception within the hub. descriptions hcparty id [1-*] Identifier of the healthcare This is the NIHII or INSS number according to the party type of hcparty. Other local identifiers are allowed. cd [1-*] Type of healthcare party Contains at least a value from CD-HCPARTY firstname [0-*] First name for a person Mandatory for a physical person. familyname [0-1] Family name for a person name [0-1] Name of the organization Mandatory for an organization. address [0-*] Home, work, ... address(es) of the healthcare party. telecom [0-*] Fax, phone, ... number(s) of the healthcare party recorddatetime [1] Date/time of the recording within the hub system