
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 expected input and output messages)

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

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	<ul style="list-style-type: none"> - an healthcare party HCP with at least the identifier, the type and with the following minimal information: <ul style="list-style-type: none"> - 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 parameters	<ul style="list-style-type: none"> - the initial request - an acknowledge indicating the completion of the request - the healthcare party as stored in the hub after the call
Post-condition	<ul style="list-style-type: none"> - 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 exceptions	<ul style="list-style-type: none"> - Technical error - Invalid data : <ul style="list-style-type: none"> • 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

Comments	<p>- 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</p> <p>- 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.</p> <p>- 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.</p>
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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 <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 (eg certificate).

	date [1]	Date of request	
	time [1]	Time of request	
hcparty	id [1-*]	Identifier of the healthcare party	This is the NIHI 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 been successfully completed	The execution is successful if the hcparty has been correctly stored within the hub.
	error [0-*]	Indicates the error/exception descriptions	
hcparty	id [1-*]	Identifier of the healthcare party	This is the NIHL or INSS number according to the 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	