eHealth platform – G19 report

Hub service "requestPublication" : 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 'requestPublication' that should be provided by one hub to other hubs.

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

Service name	requestPublication
Purpose	This service allows a hub to ask to another hub to propagate the request to the hcparty owner in order to publish documents related to a patient. This service does not allow a hub to ask information to an hcparty owner outside of the network covered by the target hub. The service does not guarantee the effective publication of the documents; this publication is typically realized throughout a call to the service 'declareTransaction' by the target healthcare party.

Input parameters	- a set of information, including at least,
	
	    - the identifier of the patient P
	
	    - the target healthcare party
	
	and, optionally,
	
	    - a list of recognized transaction types T*
	
	    - a time period [D-F].
	
	    - a comment with more information about the document to published or the reason of the request (for example a date, the type information wished).
	
	- the sender S of the request, i.e. the hub and the healthcare party that performs the operation call
	
	- information about the request (id/date/time)

Output parameters	- the initial request - an acknowledge indicating the completion of the request if the publication owner that needs to be contacted is not available, a warning exception will be raised.
Usage Conditions (to be checked by the caller hub)	- a national consent exists for P - a therapeutic link exists between S and P - S is allowed to perform the operation (according to the caller rules)
Post-condition	

Possible exceptions	- Technical error
	
	- Invalid or incorrect data :
	
	    - Invalid patient identifier;
	
	    - Invalid publication owner;
	
	- 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
	
	- Owner of the publication outside this hub network
	
	- Patient unknown

	- Document unavailable
	- HCParty unknown
	- HCParty unavailable
Comments	- **Identification of the patient**: all interhub exchanges use exclusively on the INSS number. - **About the "Sender":** the sender must at least identify the organization responsible of the caller system. According to the hub implementation of the caller (e.g. regarding logging and access management), it could also identify the healthcare party corresponding to the end-user).

2 Message description

2.1   Syntax: XSchema

Operation name	RequestPublication
Input data	request x select
Output data	response x acknowledge

2.2   Semantics: rules and interpretation
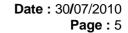
2.2.1   Input data

The 'request' parameter gathers the elements relative to

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

The 'select' parameter gathers the elements relative to the

- identifier of the patient
- information about the transaction
- comment

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 hub requester and the healthcare party corresponding to the sender of the initial request (e.g. hospital).		This information must be coherent with the information provided in the technical identification and authentication system (e.g. SAML token).
	date [1]	Date of request		
	time [1]	Time of request		
select	patient [1]	Patient concerned by the publication.		Contains only the identifiers of the patient and at least the INSS number. Several identifiers of the same patient are allowed.
	transaction [1]	cd [0-*]	Type of the transaction	
		author [1]	Author of the	

		document represented as a sequence of *hcparty* elements.	
	begindate [0-1]		
	enddate [0-1]		
comment [0-1]	Comment about the requested transaction		

2.2.2   Output data

The 'response' parameter gathers the elements relative to the

- information about the response (id, date, time),
- the 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').

Parameter	Attributes		Comments
response [1]	id [1]	Identifier of the response within the target hub.	
	author [1]	Sender of the response: the target hub and the target hospital	
	date [1]	Date of response	
	time [1]	Time of response	
	request [1]	Initial request	
acknowledge [1]	iscomplete [1]	Indicates if the execution has been successfully completed	The execution is successful if the publication request has been sent to the publication owner
	error [0-*]	Indicates the error/exceptions description	