
eHealth platform – G19 report

Hub service “revokeTransaction” : 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 ‘revokeTransaction’ 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

Remark: in the retained model, it is only possible to revoke a transaction within the hub that “owns” the transaction. This service is intended to be used by the author of the transaction or, in a further version, by the patient itself.

Service name	revokeTransaction
Purpose	This service should be used to “unpublish” a given transaction
Input parameters	<ul style="list-style-type: none"> - the identifier of the transaction T to revoke - the identifier of the patient P - the sender S of the request, i.e. the healthcare party that performs the operation call - information about the request (id/date/time)
Output parameters	<ul style="list-style-type: none"> - the initial request - an acknowledge indicating the completion of the request
Post-condition	The transaction is recorded as non-active (the transaction cannot be viewed or consulted anymore).
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 transaction identifier - Invalid patient identifier - S is not accredited within the hub - S is not allowed to perform the operation according to the hub rules - There is no transaction associated with the provided identifier - The transaction is not associated with P - There is no therapeutic link between the patient target of T and S - S does not match with the author of T
Comments	<ul style="list-style-type: none"> - About the “Sender”: the sender must at least identify the organization responsible of the caller system. According to the hub implementation (e.g. regarding logging and access management), it could also identify the healthcare party corresponding to the end-user). - About the “Transaction Identifier”: the allowed identifier are the local identifier provided by the owner of the transaction or the identifier provided by the hub - Identification of the 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.

2 Message description

2.1 Syntax: XSchema

Operation name	RevokeTransaction
Input data	request x transaction
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 'transaction' parameter covers the :

- identification of the transaction.
- identification of the patient

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.
	date [1]	Date of request
	time [1]	Time of request
select	patient [1]	Patient concerned by the transaction.
	transaction [1]	The transaction to revoke
		Contains the identifiers of the transaction (local identifier or the hub identifier)

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.

Parameter	Attributes		Comments
response	id [1]	Id of the response within the target hub	
	author [1]	Sender of the response (i.e.. 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	This means that the transaction has been found and 'deleted'.
	error [0-*	Indicates the error/exception descriptions	