

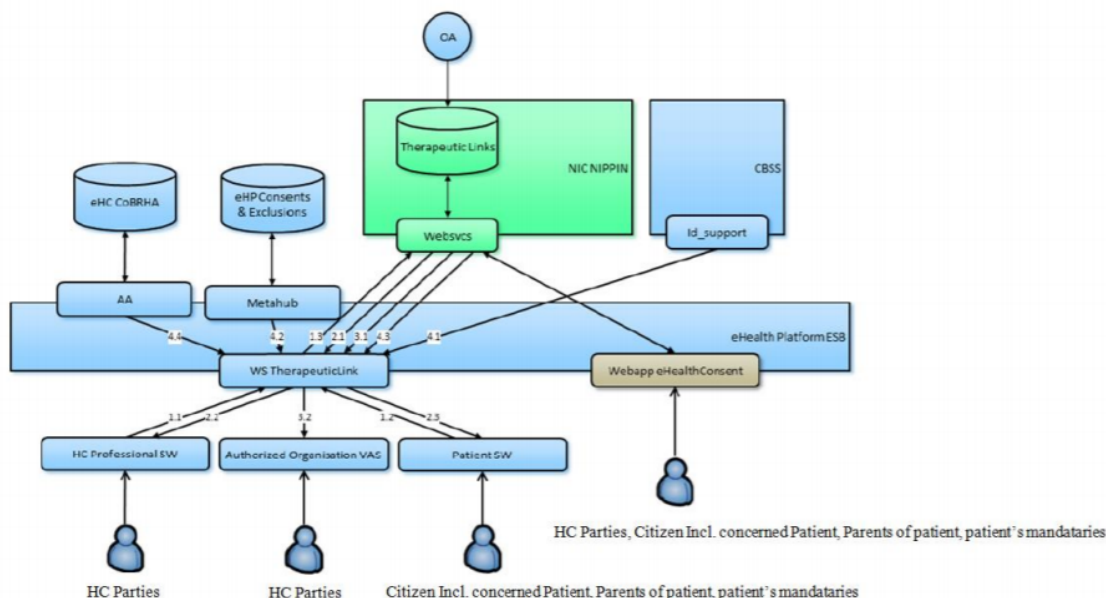
UC-228-Put TherLink-HC Prof-eID encoding

Used Documentation

Cookbook	Version	Location
Therapeutic Link WS Cookbook	1.6	https://www.ehealth.fgov.be/ehealthplatform/nl/service-ehealth-therapeutic-links

General Information

Therapeutic Links



Management of the Therapeutic Links:

- The eHealth consent WA will allow both patients (incl. patient's parents or mandatories) and authorized HC parties to manage the therapeutic links (declaration, revocation and consultation)
- The authorized HC parties, citizen (incl. concerned patients, parents of patients or patient's mandatories) are also able to perform the same operations throughout their usual software by calling the eHealth therapeutic link WS.
- The authorized HC organizations are only authorized to verify the existence of the therapeutic links before allowing the HC parties to access the medical data of the patients by calling the therapeutic link consultation WS through their application.

The existence of a therapeutic relation is one of the fundamental prerequisites for the healthcare (HC) providers to access a patient's medical data. Therefore, the eHealth platform makes available to the actors involved in the exchange, storage or referencing personal data, a relay service to manage those therapeutic relations and associated means of evidence.

This relay service is obviously limited to kinds of therapeutic links made available at the eHealth platform level by the 'owner' of this therapeutic link (such as the HC party declaring a therapeutic link or the actor responsible of a recognized specific database, e.g. for Global Medical File relation). A therapeutic link is a relation between a patient and a HC party for a certain type of therapeutic relation over a period of validity depending on the given evidence. It is not possible to update an existing therapeutic link; to update information you first need to revoke the existing therapeutic link.

However, the period of validity of an active therapeutic link could be extended on the condition that

- The start date of the new period is greater or equal to the start date of the period to be extended
- The end date of the new period is greater than the end date of the period to be extended (overlap of period of validity)

The following operations (request-response operation type) will support the management of these links:

PutTherapeuticLink	Used to declare the therapeutic links. Its main purpose is to allow one to declare a therapeutic link.
RevokeTherapeuticLink	Used to revoke the therapeutic links. Its main purpose is to allow one to “end” the (declaration of a) therapeutic link.
GetTherapeuticLink	Used to consult therapeutic links according to basic search parameters. Its main purpose is to allow one to check the existence of the therapeutic links when executing a consultation process
HasTherapeuticLink	Used to check the existence of a therapeutic link

The therapeutic links are managed according to the rules corresponding to the type of therapeutic link through:

- Specific webservices (WS) by HC professionals as end-users through their usual software or through an authorized organization
- A dedicated web application (WA), currently called eHealth Consent with following end-users: Patients and HC professionals/ HC professionals within an organization

	Declare/Put	Revoke	Consult (Get)	Has
Citizen (patient, parent, mandatary)	Yes	Yes	Yes	Yes
Authorized HC Parties (HC professionals)	Yes	Yes	Yes	Yes
Authorized HC organizations	No	No	Yes	Yes

KMEHR


This service is a 'KMEHR-based' WS. We thus strongly recommend consulting the documentation related to the KMEHR normative elements. The KMEHR site aims to offer a central point for the documentation of the KMEHR normative elements.

<https://www.ehealth.fgov.be/standards/kmehr/en>

The three following generic elements are, in particular, essentials to build the request and the reply of the therapeutic link WS.

- **cd** : This is the key element used to code information: this section is completely based on the description from the KMEHR standard, as can be found on: <https://www.ehealth.fgov.be/standards/kmehr/en/page/key-elements#cd>
- **id**: This element is used to uniquely identify key elements like request, response of the WS, patient, HCParty. It can also be used to specify any unique identifier: this section is completely based on the description from the KMEHR standard, as can be found on: <https://www.ehealth.fgov.be/standards/kmehr/en/page/key-elements#id>
- **HC Party**: The hcparty element is a generic element that aims to represent any kind of healthcare party: organization, physician, medical specialty, or even IT systems: this section is entirely based on the description from the KMEHR standard, as can be found on: <https://www.ehealth.fgov.be/standards/kmehr/en/page/hcparty>


Basic Flow

Flow	Specifications				
 Unknown macro: 'drawio'	<table> <tr> <td>ID</td><td>UC-228-BF</td></tr> <tr> <td>Name</td><td>Put Therapeutic Link - HC Professional - e-ID encoding</td></tr> </table>	ID	UC-228-BF	Name	Put Therapeutic Link - HC Professional - e-ID encoding
ID	UC-228-BF				
Name	Put Therapeutic Link - HC Professional - e-ID encoding				

Decription	<p>Put Therapeutic Link, service used to declare a therapeutic link between a patient and a HC party.</p> <p>HC Professional acts as author of the Put Therapeutic Link. The given proof is the e-ID card encoding of the patient.</p> <p>Certificate used to access the WS Therapeutic Link is the eHealth Certificate of the end-user (HC Professional). Only following HC Party categories are allowed to manage therapeutic links: Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue</p>
Actor(s)	<ul style="list-style-type: none"> HC Professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue)
Requirements	<ul style="list-style-type: none"> End-user is a HC professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue) End-user manages the therapeutic links throughout his usual software Valid personal eHealth Certificate e-ID card of concerned patient Identification HC professional: SSIN, NIHI (if available), HC professional category Identification concerned patient: SSIN, e-ID card number, first and family name Identification concerned HC party: SSIN, NIHI (if available), HC party category, first and family name (optional) Type of therapeutic link <p>°physician: gpconsultation or specialistconsultation</p> <p>°nurse: nurseconsultation</p> <p>°other professionals: consultation</p> <ul style="list-style-type: none"> Period of validity: 15 months Information about the evidence of the declaration: SSIN support card number Type of proof: e-ID encoding
Trigger	The user wants to put a therapeutic link
Preconditions	<ul style="list-style-type: none"> The user has an account for the application The user is logged out
Flow	<ol style="list-style-type: none"> The user attempts to access the eHealth WS Therapeutic Link The user needs to request a SAML Token by using its <i>personal eHealth Certificate</i> A request for a SAML Token is sent to the Secure Token Service (STS) The STS responds with a SAML Token The user has access to the eHealth WS Therapeutic Link The user does a request for Put Therapeutic Link The Put Therapeutic Link Request is sent to the WS Therapeutic Link The Therapeutic link is created in eHealth Database The request is logged The WS Consent responds with a Therapeutic Link Response

P o s t C o n d i t i o n (s)	<ul style="list-style-type: none"> Request is logged The Therapeutic Link is created in eHealth Database
T e s t D a t a	<ul style="list-style-type: none"> Put Therapeutic Link - HC Professional Example Put Therapeutic Link Request Example Put Therapeutic Link Response Example Put Therapeutic Link Response - Unsuccessful
E n d p o i n t (s)	Therapeutic Link Database
R e m a r k	<p>3 possible types of eID encoding:</p> <ul style="list-style-type: none"> eidencoding_housecall eidencoding_nocard eidencoding_techproblem
A d d i t i o n a l I n f o r m a t i o n	<ul style="list-style-type: none"> Start Date: If not provided then the start date is enriched with the date when the declaration request is processed i.e. the current date End Date: If not provided, then the end date is enriched with the ED=SD+ the default period of validity. Default period: ED=SD+15 months
R e m a r k s e n d - u s e r s	Should be available soon for clinical orthopedic pedagogue , clinical psychologist & dental hygienist


Alternative Flow

Flow	Specifications				
 Unknown macro: 'drawio'	<table> <tr> <td>ID</td><td>UC-228-AF01</td></tr> <tr> <td>N a m e</td><td>Put Therapeutic Link - HC Professional - e-ID encoding - Start date & end date</td></tr> </table>	ID	UC-228-AF01	N a m e	Put Therapeutic Link - HC Professional - e-ID encoding - Start date & end date
ID	UC-228-AF01				
N a m e	Put Therapeutic Link - HC Professional - e-ID encoding - Start date & end date				

Decription	<p>Put Therapeutic Link, service used to declare a therapeutic link between a patient and a HC party.</p> <p>HC Professional acts as author of the Put Therapeutic Link. The given proof is the e-ID card encoding of the patient.</p> <p>Certificate used to access the WS Therapeutic Link is the eHealth Certificate of the end-user (HC Professional). Only following HC Party categories are allowed to manage therapeutic links: Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue</p>
Actor(s)	<ul style="list-style-type: none"> HC Professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue)
Requirements	<ul style="list-style-type: none"> End-user is a HC professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue) End-user manages the therapeutic links throughout his usual software Valid personal eHealth Certificate e-ID card of concerned patient Identification HC professional: SSIN, NIHI (if available), HC professional category Identification concerned patient: SSIN, e-ID card number, first and family name Identification concerned HC party: SSIN, NIHI (if available), HC party category, first and family name (optional) Type of therapeutic link °physician: gpconsultation or specialistconsultation °nurse: nurseconsultation °other professionals: consultation Period of validity: 15 months Information about the evidence of the declaration: SSIN support card number Type of proof: e-ID encoding Start date End date
Trigger	The user wants to put a therapeutic link
Precondition(s)	<ul style="list-style-type: none"> The user has an account for the application The user is logged out
Flow	<ol style="list-style-type: none"> The user attempts to access the eHealth WS Therapeutic Link The user needs to request a SAML Token by using its <i>personal eHealth Certificate</i> A request for a SAML Token is sent to the Secure Token Service (STS) The STS responds with a SAML Token The user has access to the eHealth WS Therapeutic Link The user does a request for Put Therapeutic Link The Put Therapeutic Link Request is sent to the WS Therapeutic Link The Therapeutic link is created in eHealth Database The request is logged The WS Consent responds with a Therapeutic Link Response

P os t C on dit io n (s)	<ul style="list-style-type: none"> Request is logged The Therapeutic Link is created in eHealth Database
T es t D ata	<ul style="list-style-type: none"> Put Therapeutic Link - HC Professional Example Put Therapeutic Link Request Example Put Therapeutic Link Response Example Put Therapeutic Link Response - Unsuccessful
E nd po int (s)	Therapeutic Link Database
R e m ar ks	<p>3 possible types of eID encoding:</p> <ul style="list-style-type: none"> eidencoding_housecall eidencoding_nocard eidencoding_techproblem <p>Start date: Start date must be equal to the declaration date i.e. the date when the declaration request is processed (the current date) else the request is rejected</p> <p>End date must be equal to start date plus the default period of validity else the end date is discarded a,d enriched with the ED=SD + the default period of validity (ED=SD+15 months)</p>
A dd iti on al Inf or m ati on	For the overlapped relations, the start date of the new period must be greater or equal to the start date of the period to be extended and the end-date of the new period must be greater than the end-date of the period to be extended
R e m ar ks en d- us ers	Should be available soon for clinical orthopedic pedagogue, clinical psychologist & dental hygienist


Exception Flow 1

Flow	Specifications				
 Unknown macro: 'drawio'	<table> <tr> <td>ID</td><td>UC-228-EF01</td></tr> <tr> <td>Na me</td><td>Put Therapeutic Link - HC Professional - e-ID encoding - HC party performing the declaration does not belong to the same HC party category as the HC party concerned by the therapeutic link</td></tr> </table>	ID	UC-228-EF01	Na me	Put Therapeutic Link - HC Professional - e-ID encoding - HC party performing the declaration does not belong to the same HC party category as the HC party concerned by the therapeutic link
ID	UC-228-EF01				
Na me	Put Therapeutic Link - HC Professional - e-ID encoding - HC party performing the declaration does not belong to the same HC party category as the HC party concerned by the therapeutic link				

De- scri- ption	<p>Put Therapeutic Link, service used to declare a therapeutic link between a patient and a HC party.</p> <p>HC Professional acts as author of the Put Therapeutic Link. The given proof is the e-ID card encoding of the patient.</p> <p>Certificate used to access the WS Therapeutic Link is the eHealth Certificate of the end-user (HC Professional). Only following HC Party categories are allowed to manage therapeutic links: Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue. HC party performing the declaration does not belong to the same HC party category as the HC party concerned by the therapeutic link</p>
Actor(s)	<ul style="list-style-type: none"> HC Professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue)
Requirements	<ul style="list-style-type: none"> End-user is a HC professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue) End-user manages the therapeutic links throughout his usual software Valid personal eHealth Certificate e-ID card of concerned patient Identification HC professional: SSIN, NIHI (if available), HC professional category Identification concerned patient: SSIN, e-ID card number, first and family name Identification concerned HC party: SSIN, NIHI (if available), HC party category, first and family name (optional) Type of therapeutic link <p>°physician: gpconsultation or specialistconsultation</p> <p>°nurse: nurseconsultation</p> <p>°other professionals: consultation</p> <ul style="list-style-type: none"> Period of validity: 15 months Information about the evidence of the declaration: SSIN support card number Type of proof: e-ID encoding HC party performing the declaration does not belong to the same HC party category as the HC party concerned by the therapeutic link
Trigger	The user wants to put a therapeutic link
Pre-conditions	<ul style="list-style-type: none"> The user has an account for the application The user is logged out

	Flow	<ol style="list-style-type: none"> 1. The user attempts to access the eHealth WS Therapeutic Link 2. The user needs to request a SAML Token by using it's <i>personal eHealth Certificate</i> 3. A request for a SAML Token is sent to the Secure Token Service (STS) 4. The STS responds with a SAML Token 5. The user has access to the eHealth WS Therapeutic Link 6. The user does a request for Put Therapeutic Link 7. The Put Therapeutic Link Request is sent to the WS Therapeutic Link 8. The WS Consent responds with a Therapeutic Link Response: error message
	Post Condition(s)	Error message
	Test Data	<ul style="list-style-type: none"> • Example Put Therapeutic Link Request • Example Put Therapeutic Link Response • Example Put Therapeutic Link Response - Unsuccessful
	Endpoint(s)	Therapeutic Link Database
	Remarks	Should be available soon for clinical orthopedic pedagogue, clinical psychologist & dental hygienist


Exception Flow 2

Flow	Specifications				
 Unknown macro: 'drawio'	<table> <tr> <td>ID</td><td>UC-228-EF02</td></tr> <tr> <td>Name</td><td>Put Therapeutic Link - HC Professional - e-ID encoding - A valid therapeutic link of the same type and for the same HC party already exists</td></tr> </table>	ID	UC-228-EF02	Name	Put Therapeutic Link - HC Professional - e-ID encoding - A valid therapeutic link of the same type and for the same HC party already exists
ID	UC-228-EF02				
Name	Put Therapeutic Link - HC Professional - e-ID encoding - A valid therapeutic link of the same type and for the same HC party already exists				

De- scri- ption	<p>Put Therapeutic Link, service used to declare a therapeutic link between a patient and a HC party.</p> <p>HC Professional acts as author of the Put Therapeutic Link. The given proof is the e-ID card encoding of the patient.</p> <p>Certificate used to access the WS Therapeutic Link is the eHealth Certificate of the end-user (HC Professional). Only following HC Party categories are allowed to manage therapeutic links: Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue. A valid therapeutic link of the same type and for the same HC party already exists</p>
Actor(s)	<ul style="list-style-type: none"> HC Professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue)
Requirements	<ul style="list-style-type: none"> End-user is a HC professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue) End-user manages the therapeutic links throughout his usual software Valid personal eHealth Certificate e-ID card of concerned patient Identification HC professional: SSIN, NIHI (if available), HC professional category Identification concerned patient: SSIN, e-ID card number, first and family name Identification concerned HC party: SSIN, NIHI (if available), HC party category, first and family name (optional) Type of therapeutic link <p>°physician: gpconsultation or specialistconsultation</p> <p>°nurse: nurseconsultation</p> <p>°other professionals: consultation</p> <ul style="list-style-type: none"> Period of validity: 15 months Information about the evidence of the declaration: SSIN support card number Type of proof: e-ID encoding A valid therapeutic link of the same type and for the same HC party already exists
Trigger	The user wants to put a therapeutic link
Pre-condition(s)	<ul style="list-style-type: none"> The user has an account for the application The user is logged out

	Flow	<ol style="list-style-type: none"> 1. The user attempts to access the eHealth WS Therapeutic Link 2. The user needs to request a SAML Token by using it's <i>personal eHealth Certificate</i> 3. A request for a SAML Token is sent to the Secure Token Service (STS) 4. The STS responds with a SAML Token 5. The user has access to the eHealth WS Therapeutic Link 6. The user does a request for Put Therapeutic Link 7. The Put Therapeutic Link Request is sent to the WS Therapeutic Link 8. The WS Consent responds with a Therapeutic Link Response: error message
	Post Condition(s)	Error message
	Test Data	<ul style="list-style-type: none"> • Example Put Therapeutic Link Request • Example Put Therapeutic Link Response • Example Put Therapeutic Link Response - Unsuccessful
	Endpoint(s)	Therapeutic Link Database
	Remarks* - users	Should be available soon for clinical orthopedic pedagogue, clinical psychologist & dental hygienist

Exception Flow 3

Flow	Specifications				
 Unknown macro: 'drawio'	<table> <tr> <td>ID</td><td>UC-228-EF03</td></tr> <tr> <td>Name</td><td>Put Therapeutic Link - HC Professional - e-ID encoding - Sender not allowed to perform the declaration</td></tr> </table>	ID	UC-228-EF03	Name	Put Therapeutic Link - HC Professional - e-ID encoding - Sender not allowed to perform the declaration
ID	UC-228-EF03				
Name	Put Therapeutic Link - HC Professional - e-ID encoding - Sender not allowed to perform the declaration				

Description	<p>Put Therapeutic Link, service used to declare a therapeutic link between a patient and a HC party.</p> <p>HC Professional acts as author of the Put Therapeutic Link. The given proof is the e-ID card encoding of the patient.</p> <p>Certificate used to access the WS Therapeutic Link is the eHealth Certificate of the end-user (HC Professional). Only following HC Party categories are allowed to manage therapeutic links: Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue.</p> <p>The sender is not allowed to perform the declaration according to the predefined rules e.g. validation on the author (NIHII valid, SSIN valid,...?)</p>
Actor(s)	<p>HC Professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue)</p>
Requirements	<ul style="list-style-type: none"> • End-user is a HC professional (Physician, Nurse, Dentist, Midwife, Audician, Physiotherapist, Occupational therapist, Practical nurse, Dietician, Audiologist, Podologist, Truss maker, Logopedist, Orthoptist, Lab technologist, Imaging technologist, clinical orthopedic pedagogue) • End-user manages the therapeutic links throughout his usual software • Valid personal eHealth Certificate • e-ID card of concerned patient • Identification HC professional: SSIN, NIHII (if available), HC professional category • Identification concerned patient: SSIN, e-ID card number, first and family name • Identification concerned HC party: SSIN, NIHII (if available), HC party category, first and family name (optional) • Type of therapeutic link <p>°physician: gpconsultation or specialistconsultation</p> <p>°nurse: nurseconsultation</p> <p>°other professionals: consultation</p> <ul style="list-style-type: none"> • Period of validity: 15 months • Information about the evidence of the declaration: SSIN support card number • Type of proof: e-ID encoding • The sender is not allowed to perform the declaration according to the predefined rules e.g. validation on the author (NIHII valid, SSIN valid,...?)
Trigger	<p>The user wants to put a therapeutic link</p>
Precondition(s)	<ul style="list-style-type: none"> • The user has an account for the application • The user is logged out

Flow	<ol style="list-style-type: none"> 1. The user attempts to access the eHealth WS Therapeutic Link 2. The user needs to request a SAML Token by using it's <i>personal eHealth Certificate</i> 3. A request for a SAML Token is sent to the Secure Token Service (STS) 4. The STS responds with a SAML Token 5. The user has access to the eHealth WS Therapeutic Link 6. The user does a request for Put Therapeutic Link 7. The Put Therapeutic Link Request is sent to the WS Therapeutic Link 8. The WS Consent responds with a Therapeutic Link Response: error message
Post Condition(s)	Error message
Test Data	<ul style="list-style-type: none"> • Example Put Therapeutic Link Request • Example Put Therapeutic Link Response • Example Put Therapeutic Link Response - Unsuccessful
Endpoint(s)	Therapeutic Link Database
Remarks	Should be available soon for clinical orthopedic pedagogue, clinical psychologist & dental hygienist