Cookbook

ConsultRN

SsinHistory

Version 1.01

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eHealth platform

Willebroekkaai 38

38, Quai de Willebroeck

1000 BRUSSELS

Table of Content

1 Document management

1.1 Document history

Version	Date	Author	Description of changes / remarks
1.0	02/03/2017	eHealth	Initial version
1.01	28/03/2017	eHealth	Update business error

1.2 Document references

You'll find most of documents in the technical library on the eHealth portal.

- In Dutch : https://www.ehealth.fgov.be/nl/support/
- In French : https://www.ehealth.fgov.be/fr/support/

1.3 Goal of the document

This document provides technical information on calling the web service SSIN history, as provided by the eHealth-platform.

The eHealth platform will provide the SSIN history web service in order to allow the coherent management of SSIN/SSiB within EHR of patient. The call to the SSIN History does not request any agreement from the sectoral committee.

Based on a unique identifier (SSIN or SSIB number), users will have the opportunity to obtain the history of unique identifier related to this person and to identify the current active identifier.

More and more health data are related to the unique national identifier of a patient. This unique identifier is used as primary key for patient health data exchange (e.g. within prescription, Sumehr …). If for most of the Belgians, this unique identifier does not change, there are about 70.000 NISS mutations per year (Less than 3‰ of the population). We therefor highly advise software producers to call this service only in case of a reasonable doubt.

For an organization with a granted access to the ConsultRN services, we advise to first implement the call to those services and apply the guidelines published in the FAQ's of the technical library.

We advise to communicate on a patient with the active identifier. Nevertheless, each business should clarify the "consolidation rules & guidelines" to apply on files related to a single person but with two distinct unique identifiers.

In this cookbook, we explain the structure and content aspects of the possible requests and the replies of the eHealth web service. An example illustrates each of those messages. In addition, you will find a list of possible errors further in this document.

This information should allow the IT department of an organization to develop and use the web service call.

Some technical and legal requirements must be satisfied in order to allow the integration of the eHealth web services in client applications.

This document is not a development or a programming guide for internal applications; eHealth partners always keep a total freedom within those fields. Nevertheless, in order to interact in a smooth, homogeneous and risk control way with a maximum of partners, eHealth partners must commit to comply with specifications, data format, and release processes described within this document. In addition, our partners in the health sector must also comply with the business rules of validation and integration of data within their own applications in order to minimize errors and incidents.

2 Technical, business and privacy requirements

- The call to SSIN webservice is not conditioned to the authorization of the sectoral committee
- An eHealth certificate that is used to identify the initiator of the request. If you do not have one, see:

  Dutch version: **https://www.ehealth.fgov.be/nl/support/basisdiensten/ehealth-certificaten**

  French version: **https://www.ehealth.fgov.be/fr/support/services-de-base/certificats-ehealth**
- Time synchronisation. eHealth servers are synchronized to a pool of global servers using NTP protocol. Partner's clock offset cannot be more than 60 seconds against eHealth's, request would otherwise be discarded.

3 Release and test processes

3.1 Request to integrate the service (acceptation environment first)

The “integration team” supports the integration of SSIN history web service.

3.2 Development and Test procedures

- There are no specific SSIN history tests
- In order to release the service in production, you should first prove in the acceptance environment that you have correctly implemented the call to the services. Therefore, you’ll need to complete the test scenario form” and send it to the integration team

3.3 Maintenance, support and monitoring of the service

Once in production, the partner in the Health sector who is using the web service for one of his applications will always test firstly in acceptance before releasing any adaptions of his application. In addition, the partner will inform eHealth on the changes and test period.

In case of technical issues on the web service, the technician of the partner in the Health sector may obtain support from eHealth contact center.

3.4 Request for release into production

If acceptance tests are successful, the partner in the Health sector sends its test results, test performance results, with sample of “request” and “eHealth answer” to the eHealth point of contact.

When tests are conclusive, eHealth and the partner agree on a release date. eHealth should prepare the connection to the production environment and provides the partner with the URL of the production environment.

During the release day, the partner in the Health sector provides his eHealth contact with the results on the release tests.

3.5 Maintenance, support and monitoring of the service

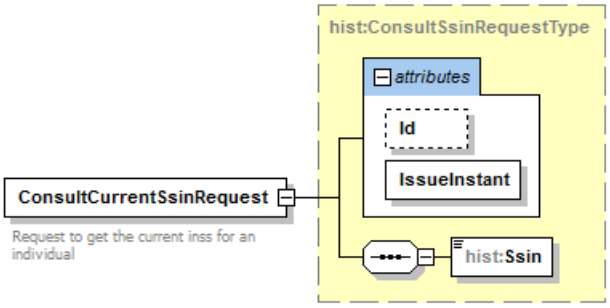
Once in production, the partner in the Health sector who is using the web service for one of its applications will always test firstly in acceptance before releasing any adaptations of its application. In addition, the partner will inform eHealth on the changes and test period.

In case of technical issues on the web service, the technician of the partner in the Health sector may obtain support from eHealth contact center.

4 Method ConsultCurrentSsin

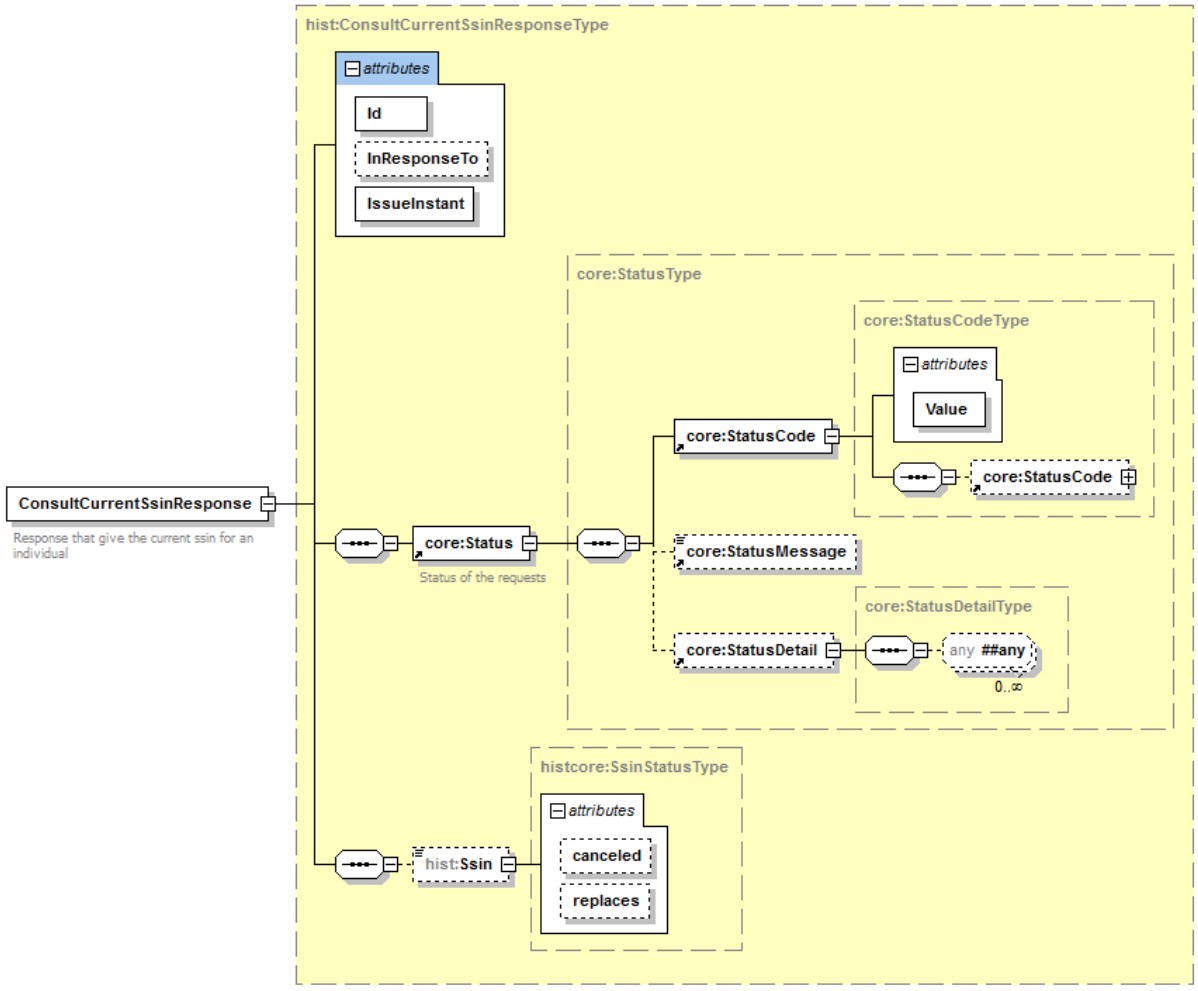
This method allows getting the current identifier about an individual

4.1 Formulating a Request



Field name	Descriptions
@Id	The number attributed to the request by eHealth platform
@IssueInstant	Timestamp of the request
Ssin	This field contains the SSIN number of the individual

4.2 Interpretation of the Response



Field name	Descriptions
@Id	Ticket number identifier the response by the CBSS
@InResponseTo	The number, attributed to the request by eHealth platform
@IssueInstant	Timestamp of the response
Status	This field contains the status response (See section 6)
Ssin	This field contains the last active SSIN identifier
@canceled	This attribute has the value true if the SSIN is canceled
@replaces	This attribute contains the SSIN requested if this one is not the last SSIN identifier

Example:

xxxxxxxxxx1 is replaced by *xxxxxxxxxx2*

Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<ConsultCurrentSsinRequest xmlns="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Id="ID1" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Ssin> xxxxxxxxxx1</Ssin>

</ConsultCurrentSsinRequest>
```

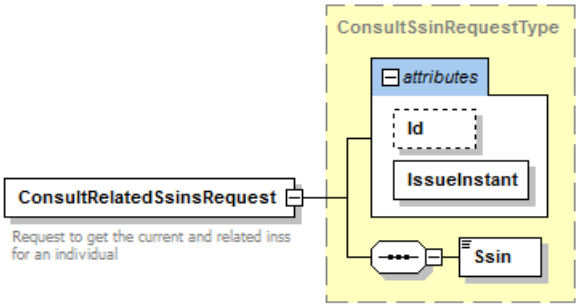
Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<n1:ConsultCurrentSsinResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1" Id="97a2db32-d788-41de-a787-31c83e9c75b7"
InResponseTo="1234" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
         <StatusCode Value="urn:be:fgov:ehealth:2.0:status:Success "/>
        </Status>
        <n1:Ssin Replaces="xxxxxxxxxx1"> xxxxxxxxxx2</n1:Ssin>
</n1:ConsultCurrentSsinResponse>
```

5 Method ConsultRelatedSsins

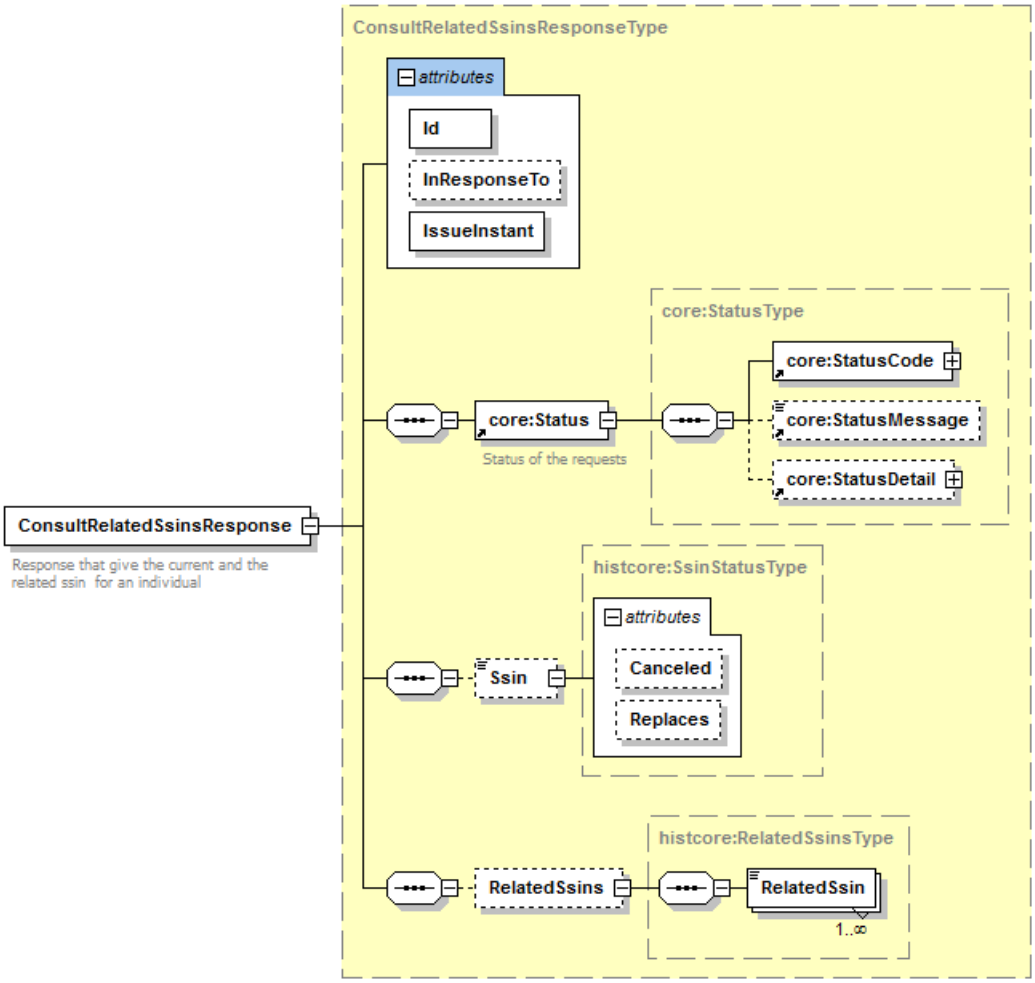
This method allows getting the current identifier and the related identifier about an individual.

5.1 Formulating a Request



Field name	Descriptions
@Id	The number attributed to the request by eHealth platform
@IssueInstant	Timestamp of the request
Ssin	This field contains the SSIN number of the individual

5.2 Interpretation of the Response



Field name	Descriptions
@Id	Ticket number identifier the response by the CBSS
@InResponseTo	The number attributed to the request by eHealth platform
@IssueInstant	Timestamp of the response
Status	This field contains the status response (See section 6)
Ssin	This field contains the last active SSIN identifier
@canceled	This attribute has the value true if the SSIN is canceled
@replaces	This attribute contains the ssin requested if this one is not the last SSIN identifier
RelatedSsins	This field contains the list of current and previous individual identifier
RelatedSsin	This field contains the current identifier or a previous identifier

Example:

xxxxxxxxxx1 is replaced by *xxxxxxxxxx2*

xxxxxxxxxx2 is replaced by *xxxxxxxxxx3*

Request:

```
<?xml version="1.0" encoding="UTF-8"?>
<ConsultRelatedSsinsRequest xmlns="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" Id="ID1" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Ssin>xxxxxxxxxx1</Ssin>
</ConsultRelatedSsinsRequest>
```

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
<n1:ConsultRelatedSsinsResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:histcore="urn:be:fgov:ehealth:consultrn:ssinhistory:core:v1"
xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1" Id="1234" InResponseTo="2720d69c-b681-4a8e-9474-
6be05d8fe7a3" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode  Value="urn:be:fgov:ehealth:2.0:status:Success "/>
        </Status>
        <n1:Ssin> xxxxxxxxxx3</n1:Ssin>
        <n1:RelatedSsins>
                <histcore:RelatedSsin> xxxxxxxxxx3</histcore:RelatedSsin>
                <histcore:RelatedSsin> xxxxxxxxxx2</histcore:RelatedSsin>
                <histcore:RelatedSsin> xxxxxxxxxx1</histcore:RelatedSsin>
        </n1:RelatedSsins>
</n1:ConsultRelatedSsinsResponse>
```

6 Status

For a request submitted, we receive in the response a status indicating if the request was executed with success or not. Each response will have the following structure:

6.1 ConsultCurrentSsinResponse

6.1.1 Success

```
<n1:ConsultCurrentSsinResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value="urn:be:fgov:ehealth:2.0:status:Success" />

        </Status>
```

6.1.2 Business error

```
<n1:ConsultCurrentSsinResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value="urn:be:fgov:ehealth:2.0:status:Requester">
                <StatusCode Value="Error Value" />
                </StatusCode>
                <StatusMessage>Error description</StatusMessage>

        </Status>
```

Error Value	Error Description	Action
urn:be:fgov:ehealth:2.0:status:DataNotFound	The SSIN given in request does not exist.	There is no information found about the individual. Please check that the SSIN exists.
urn:be:fgov:ehealth:2.0:status:InvalidInput	The structure of the SSIN given in request is invalid.	Please check that SSIN in your request is valid.
urn:be:fgov:ehealth:2.0:status:InvalidInput	ID cannot be longer than 36 characters.	Please check that the length of request id is less than 36 characters.

6.1.3 Technical error

```
<n1:ConsultCurrentSsinResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value=" urn:be:fgov:ehealth:2.0:status:Responder" />
        </Status>
```

When a technical error occurs, please contact the contact center.

6.2 ConsultRelatedSsinsResponse

6.2.1 Success

```
<n1:ConsultRelatedSsinsResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value="urn:be:fgov:ehealth:2.0:status:Success" />

        </Status>
```

6.2.2 Business error

```
<n1:ConsultRelatedSsinsResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value="urn:be:fgov:ehealth:2.0:status:Requester">
                <StatusCode Value="Error Value" />
                </StatusCode>
                <StatusMessage>Error description</StatusMessage>

        </Status>
```

Error Value	Error Description	Action
urn:be:fgov:ehealth:2.0:status:DataNotFound	The SSIN given in request does not exist.	There is no information found about the individual. Please check that the SSIN exists.
urn:be:fgov:ehealth:2.0:status:InvalidInput	The structure of the SSIN given in request is invalid.	Please check that SSIN in your request is valid.
urn:be:fgov:ehealth:2.0:status:InvalidInput	ID cannot be longer than 36 characters.	Please check that the length of request id is less than 36 characters.

6.2.3 Technical error

```
<n1:ConsultRelatedSsinsResponse xmlns="urn:be:fgov:ehealth:commons:core:v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:n1="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1"
Id="ID1" InResponseTo="String" IssueInstant="2001-12-17T09:30:47Z"
xsi:schemaLocation="urn:be:fgov:ehealth:consultrn:ssinhistory:protocol:v1 ehealth-ssinhistory-protocol-1_0.xsd">
        <Status>
                <StatusCode Value=" urn:be:fgov:ehealth:2.0:status:Responder" />
        </Status>
```

When a technical error occurs, please contact the contact center.

7 Security

Web service security used in this manner is following the common standards. Your call will provide:

- SSL one way
- An X.509 certificate which will contain the identifiers of the caller: NIHII number or enterprise number. For more information on the contents of the certificate, see section 7. More information on how to obtain such a certificate: ***https://www.ehealth.fgov.be/fr/page_menu/website/home/platform/basicservices/certificates.html***
- Time to live of the message: one minute
- Signature of the timestamp, body and binary security token allowing eHealth to verify the integrity of the message and the identity of the message author.
- No encryption on the message

For further information, please refer to the separate document. In order to use the web services, an agreement from eHealth is required.