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To the attention of: “IT expert” willing to integrate this web service.
1. Document management

1.1 Document history

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Author</th>
<th>Description of changes / remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>02/08/2016</td>
<td>eHealth platform</td>
<td>Initial version</td>
</tr>
<tr>
<td>4.0</td>
<td>07/12/2017</td>
<td>Smals</td>
<td>FINAL - validated by eHealth-platform</td>
</tr>
<tr>
<td>4.1</td>
<td>20/03/2018</td>
<td>eHealth platform</td>
<td>Lay-out and links</td>
</tr>
</tbody>
</table>
2. Introduction

2.1 Goal of the service

The Authentic Source of Medicines (SAM) is a system gathering information about drugs authorized on the Belgian market and their reimbursements. Many responsible public institutions manage the information: BCPI¹, FAMHP², NIHDI³, FPS Economy⁴ and APB⁵.

The main goal of the project is to allow the prescribers and insurance institutions to electronically communicate information and decisions in order to accelerate the reimbursement process for the patient.

The information in the SAM is public.

DICS (Drugs Information Consultation System) v4 is the consultation web service for SAM v2.

2.2 Goal of the document

This document is not a development or programming guide for internal applications. Instead, it provides functional and technical information and allows an organization to integrate and use the eHealth platform service.

However, in order to interact in a smooth, homogeneous and risk controlled way with a maximum of partners, these partners must commit to comply with the requirements of specifications, data format and release processes of the eHealth platform as described in this document.

Technical and business requirements must be met in order to allow the integration and validation of the eHealth platform service in the client application.

2.3 eHealth platform document references

In the technical library on the portal of the eHealth platform, you can find all the referenced documents.⁶. These versions or any following versions can be used for the eHealth platform service.

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Version</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Glossary.pdf</td>
<td></td>
<td></td>
<td>eHealth platform</td>
</tr>
<tr>
<td>2</td>
<td>Reimbursement Law - Rules and expressions</td>
<td>1.5</td>
<td>2017-06-23</td>
<td>RIZIV/INAMI</td>
</tr>
</tbody>
</table>

¹ [http://www.cbip.be/](http://www.cbip.be/)
³ [http://www.inami.fgov.be/fr/Pages/default.aspx](http://www.inami.fgov.be/fr/Pages/default.aspx)
⁴ [http://economie.fgov.be/](http://economie.fgov.be/)
⁵ [http://www.apb.be/](http://www.apb.be/)
⁶ [https://ehealth.fgov.be/ehealthplatform](https://ehealth.fgov.be/ehealthplatform)
### 2.4 Service history

This chapter contains the list of changes made to the service with respect to the previous version.

<table>
<thead>
<tr>
<th>Previous version</th>
<th>Previous release date</th>
<th>changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2015-01-08</td>
<td>First version, based on the SAM CIVICS interface.</td>
</tr>
<tr>
<td>2</td>
<td>2016-07-31</td>
<td>Complete rework: new backend, new interface based on consultation of 5 domains.</td>
</tr>
<tr>
<td>3</td>
<td>2017-03-19</td>
<td>Some fields in the response moved, some fields were added. All in all minor changes, but not backwards compatible. Addition of Find Compounding operations.</td>
</tr>
</tbody>
</table>
| 4                | 2017-11-26            | Changes:  
1) Pricing Range / Unit / Slice  
   FindReimbursementResponse/ReimbursementContexts/PricingRange replaced by  
   FindReimbursementResponse/ReimbursementContexts/PricingUnit  
   FindReimbursementResponse/ReimbursementContexts/PricingSlice  
2) CopaymentSupplement  
   New field  
   FindReimbursementResponse/ReimbursementContexts/CopaymentSupplement  
3) Attachment Mandatory flag  
   New field  
   FindLegislationTextResponse/LegalBasis/LegalReference//FormalInterpretation/ReimbursementCondition/Attachment/Mandatory  
4) New Reference Distributor in AMPP  
   FindAmpResponse/Amp/Ampp/DistributorActorNr  
5) CommentedClassification is now a ConsultTextType  
   ConsultCommentedClassificationTreeType/Url  
6) New field AdditionalInformation in SupplyProblem  
   FindAmpResponse/Amp/Ampp/SupplyProblem/AdditionalInformation  
7) DerogationImport now directly under AMPP  
   FindAmpResponse/Amp/Ampp/SupplyProblem/DerogationImport moved to  
   FindAmpResponse/Amp/Ampp/DerogationImport  
New operations:  
1) ListConsultation  
2) FindAmp  
3) FindNonMedicinalProduct |
3. Support

3.1 For issues in production

eHealth platform contact center:

- Phone: 02/788 51 55
- Mail: support@ehealth.fgov.be
- Contact Form:
  - https://www.ehealth.fgov.be/ehealthplatform/nl/contact
  - https://www.ehealth.fgov.be/ehealthplatform/fr/contact

3.2 For issues in acceptance

Integration-support@ehealth.fgov.be

3.3 For business issues

The contact form on

- Dutch version: http://www.samportal.be/nl/sam/contact
- French version: http://www.samportal.be/fr/sam/contact

3.4 Certificates

- In order to access the secured eHealth platform environment you have to obtain an eHealth platform certificate, used to identify the initiator of the request. In case you do not have one, please consult:
  - Dutch version: https://www.ehealth.fgov.be/ehealthplatform/nl/ehealth-certificaten
  - French version: https://www.ehealth.fgov.be/ehealthplatform/fr/certificats-ehealth
- For technical issues regarding eHealth platform certificates
  - Acceptance: acceptance-certificates@ehealth.fgov.be
  - Production: support@ehealth.fgov.be
4. Global overview

The SAM v2 database is divided in four major domains:

**Actual Medicine**: information about actual drug products and the related packages authorized on the Belgian market. The FAMHP is responsible for monitoring this information. BCPI and NIHDI can register additional information on a drug product created by the FAMHP.

**Reimbursement**: information about the reimbursement of a delivered drug package managed by the NIHDI.

**Reimbursement Law**: information about the legislation that describes the conditions and terms of the reimbursement of a drug package, i.e. Chapter IV describing the conditions for reimbursement of specialties, which are refundable through a medical advisor’s agreement. This part is managed by the NIHDI.

**Virtual Medicine**: extra information about the drug products for prescription managed by the BPCI.

Additionally, 3 minor domains containing simpler elements are published as well:

**Company**: information about the pharmaceutical company that is responsible for delivered drug packages. The FAMHP is responsible for monitoring this information;

**Compounding**: Contains the names, synonyms and CNK codes for ingredients and formulae prepared by the pharmacist. These are used as source of information for electronic prescriptions. The information is published by APB.

**Non-medicinal products**: information about non-medicinal products that can be part of a prescription nonetheless. The information is published by APB.
5. Step-by-step

5.1 Technical requirements

5.1.1 Security policies to apply

We expect that you use SSL one way for the transport layer.

As web service security policy, we expect:

- A timestamp (the date of the request), with a Time to live of one minute. If the message does not arrive during this minute, it shall not be treated.
- The signature with the certificate of
  - the timestamp, (the one mentioned above)
  - the body (the message itself)
  - and the binary security token: any valid eHealth certificate

This will allow eHealth to verify the integrity of the message and the identity of the message author.

A document explaining how to implement this security policy can be obtained at the eHealth platform.

5.2 Process overview

The DICS v4 service has the following endpoints:

- Integration environment: https://services-int.ehealth.fgov.be/Dics/v4
- Acceptance environment: https://services-acpt.ehealth.fgov.be/Dics/v4
- Production environment: https://services.ehealth.fgov.be/Dics/v4

Text search

Many objects have multiple searchable names. The Consultation service searches all name fields with the input of an ‘Any Name Part’ field in the request. Only the beginning of the name is searched: you can provide a partial name. All objects where at least one name field matches are returned in the result.

E.g.: a search string ‘Par’ matches ‘Paracetamol’ and ‘Paroxetine’, but not ‘Heparin’.

5.2.1 Generic attributes

The following attributes are generic and appear in many entities. It will be indicated further when it has to be specified and what value it can contain.

Notes: to reduce redundancy in the document

- The optionality is not repeated in the description tables. The optionality can be visually determined. A dashed line means an optional field; a full line means a required field.
- For all fields that contain in separate subfields translations:
  - These fields are translated in French, Dutch, German and English.
  - French and Dutch versions are mandatory and all others are optional.
  - The ConsultTextType contains at least two Text elements with a corresponding xml:lang attribute.
All Find*Requests define the same attributes **lang** and **SearchDate**. To conform to eHealth SOA standards, they also define the attributes **Id** and **IssueInstant**.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>lang</strong></td>
<td>Required.</td>
</tr>
<tr>
<td></td>
<td>Can be NI, FR, EN or DE.</td>
</tr>
<tr>
<td></td>
<td>When searching in text fields (such as a Product name), the search is limited to fields of the selected language.</td>
</tr>
<tr>
<td></td>
<td>The result will contain the entire object however, with text in all available languages.</td>
</tr>
<tr>
<td><strong>SearchDate</strong></td>
<td>Optional.</td>
</tr>
<tr>
<td><strong>Id</strong></td>
<td>Optional.</td>
</tr>
<tr>
<td></td>
<td>All SOA Service Consumers SHOULD set an <strong>Id</strong> but it is not mandatory.</td>
</tr>
<tr>
<td></td>
<td>The <strong>Id</strong> SHOULD be unique on a per request base to facilitate tracing on both client and server side.</td>
</tr>
</tbody>
</table>
| **IssueInstant** | Required  
| Time of the service call. |

To conform to eHealth SOA standards, all responses define an additional attribute **InResponseTo**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| InResponseTo  | Optional.  
If available, InResponseTo contains the Id attribute of the Request. |

### 5.2.2 Response status

As part of eHealth SOA standards, all responses include an element Status.  
The Status element of the Response contains a **StatusCode**.

- A StatusCode is recursive and can therefore contain an embedded StatusCode to define a sublevel StatusCode.
- Each StatusCode must have a value attribute.
- There must be at least a level 1 StatusCode.

**Level 1 StatusCode** MUST be one of the following values:

<table>
<thead>
<tr>
<th>URI</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>urn:be:fgov:ehealth:2.0:status:Success</td>
<td>everything OK</td>
</tr>
<tr>
<td>urn:be:fgov:ehealth:2.0:status:Requester</td>
<td>error caused by client (consumer)</td>
</tr>
<tr>
<td>urn:be:fgov:ehealth:2.0:status:Responder</td>
<td>error caused by server (provider)</td>
</tr>
</tbody>
</table>
See section 8.1 Business errors for a detailed list of level 2 StatusCodes values and descriptions.

5.3 Operations

5.3.1 FindAmp

Find an AMP based on one or more criteria.

5.3.1.1 FindAmpRequest

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByProduct</td>
<td>Search by AMP code or a combination of name parts. All AMPs matching all name parts are returned.</td>
</tr>
<tr>
<td>FindByPackage</td>
<td>Search an AMP based on an AMPP identifier or any package name part. If an AMPP matches, the complete AMP is returned.</td>
</tr>
<tr>
<td>FindByDmpp</td>
<td>Search an AMP based on a DMPP identifier. All products with packages linked to the given DMPP are returned.</td>
</tr>
<tr>
<td>FindByIngredient</td>
<td>Search an AMP based on ingredients. All AMPs containing all requested ingredients are returned.</td>
</tr>
<tr>
<td>FindByVirtualProduct</td>
<td>Search an AMP based on corresponding VMP code or name. For more complex searches, first call the FindVmp service to get the VMPCodes.</td>
</tr>
<tr>
<td>FindByGenericPrescriptionGroup</td>
<td>Search an AMP based on corresponding Generic Prescription Group code or name.</td>
</tr>
<tr>
<td>FindByCompany</td>
<td>Search an AMP based on the distributing company.</td>
</tr>
<tr>
<td>HasComponentWith</td>
<td>Must be combined with at least one FindBy element. Only those AMPs who have a component matching these attributes will be returned.</td>
</tr>
</tbody>
</table>
5.3.1.2  FindAmpResponse

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SearchDate</td>
<td>Date of the consultation</td>
</tr>
</tbody>
</table>

5.3.1.3  Example

Request:

```xml
<urn:FindAmpRequest Id="_1" IssueInstant="2017-11-28T15:44:04.902+01:00" SearchDate="2017-10-18" xml:lang="nl">
  <FindByPackage>
    <AnyNamePart>abilify</AnyNamePart>
  </FindByPackage>
</urn:FindAmpRequest>
```

Reply:

Too long for this document.

5.3.2  FindVmp

Find a VMP based on one or more criteria
5.3.2.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByGenericPrescriptionGroup</td>
<td>Returns all VMPs in the given Generic Prescription Group</td>
</tr>
<tr>
<td>FindByTherapeuticMoiety</td>
<td>Returns all VMPs containing the given Therapeutic Moiety</td>
</tr>
<tr>
<td>FindByProduct</td>
<td>Returns all VMPs matching the given code or name.</td>
</tr>
<tr>
<td>FindByIngredient</td>
<td>Returns all VMPs containing the given ingredient.</td>
</tr>
<tr>
<td>HasComponentWith</td>
<td>Must be combined with at least one FindBy element. Only those VMPs who have a component matching these attributes will be returned.</td>
</tr>
<tr>
<td>HasWadaClassification</td>
<td>Must be combined with at least one FindBy element. Only those VMPs categorized by the World Anti-Doping Agency in the requested classification will be returned.</td>
</tr>
</tbody>
</table>
5.3.2.2 Output arguments

5.3.3 FindCompany

5.3.3.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompanyActorNr</td>
<td>The unique identifier attributed to the company by the FAMHP</td>
</tr>
<tr>
<td>AnyNamePart</td>
<td>Returns the companies where any of the names starts with the given string</td>
</tr>
<tr>
<td>VatNr</td>
<td>Returns the company identified by the given Vat number.</td>
</tr>
</tbody>
</table>
5.3.3.2 Output arguments

5.3.4 FindLegislationText

5.3.4.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindLegalBases</td>
<td>Gets a list of all legal bases known in the system, including the first level legal reference (if available). Using this result, a user can continue digging in the legislation tree using the FindByLegalReferencePath element.</td>
</tr>
<tr>
<td>FindByLegalReferencePath</td>
<td>Returns the children of a legal reference identified by a path. If the referenced legal reference is a leaf reference (no child legal references), the entire legal reference and all children (legal text, formal interpretation) is returned. If the legal reference contains legal reference children, only the direct children are returned.</td>
</tr>
<tr>
<td>FindByDmpp</td>
<td>Returns all legal references concerning the medicinal product identified by this Dmpp</td>
</tr>
</tbody>
</table>
5.3.4.2 **Output arguments**

5.3.5 **FindReimbursement**

5.3.5.1 **Input arguments**

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByPackage</td>
<td>Find Reimbursement Contexts based on the concerned packages.</td>
</tr>
<tr>
<td>FindByDmpp</td>
<td>Find Reimbursement Contexts based on a DMPP (CNK code)</td>
</tr>
<tr>
<td>FindByLegalReferencePath</td>
<td>Find Reimbursement Contexts based on a Legal Reference Path</td>
</tr>
<tr>
<td>FindByGenericPrescriptionGroup</td>
<td>Find Reimbursement Contexts based on a Generic Prescription Group</td>
</tr>
</tbody>
</table>
5.3.5.2 Output arguments

5.3.6 FindReferences

5.3.6.1 Input arguments
<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ReferenceEntity</td>
<td>Returns all references in the database for the given type. Possible types:</td>
</tr>
<tr>
<td></td>
<td>• AtcClassification</td>
</tr>
<tr>
<td></td>
<td>• DeliveryModus</td>
</tr>
<tr>
<td></td>
<td>• DeliveryModusSpecification</td>
</tr>
<tr>
<td></td>
<td>• DeviceType</td>
</tr>
<tr>
<td></td>
<td>• PackagingClosure</td>
</tr>
<tr>
<td></td>
<td>• PackagingMaterial</td>
</tr>
<tr>
<td></td>
<td>• PackagingType</td>
</tr>
<tr>
<td></td>
<td>• PharmaceuticalForm</td>
</tr>
<tr>
<td></td>
<td>• RouteOfAdministration</td>
</tr>
<tr>
<td></td>
<td>• Substance</td>
</tr>
<tr>
<td></td>
<td>• NoSwitchReason</td>
</tr>
<tr>
<td></td>
<td>• VirtualForm</td>
</tr>
<tr>
<td></td>
<td>• Wada</td>
</tr>
<tr>
<td></td>
<td>• NoGenericPrescriptionReason</td>
</tr>
<tr>
<td></td>
<td>• Appendix</td>
</tr>
<tr>
<td></td>
<td>• FormCategory</td>
</tr>
<tr>
<td></td>
<td>• Parameter</td>
</tr>
<tr>
<td></td>
<td>• ReimbursementCriterion</td>
</tr>
<tr>
<td></td>
<td>• StandardForm</td>
</tr>
<tr>
<td></td>
<td>• StandardRoute</td>
</tr>
<tr>
<td></td>
<td>• StandardSubstance</td>
</tr>
<tr>
<td></td>
<td>• StandardUnit</td>
</tr>
</tbody>
</table>

5.3.6.2 Output arguments

![FindReferencesResponseType diagram]

Returns only the requested fields.

5.3.7 FindVmpGroup

Since DICS v3
5.3.7.1 Input arguments

### Field name

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByGenericPrescriptionGroup</td>
<td>Returns the VMP Group(s) identified by the given name or code</td>
</tr>
<tr>
<td>FindByProduct</td>
<td>Returns the VMP Group(s) referenced by the product(s) matching the given code or name.</td>
</tr>
</tbody>
</table>

5.3.7.2 Output arguments

### FindVtm

Since DICS v3
5.3.8.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByTherapeuticMoiety</td>
<td>Returns all VTMs identified by the given name or code</td>
</tr>
<tr>
<td>FindByProduct</td>
<td>Returns all VTMs referenced by the product(s) matching the given code or name.</td>
</tr>
</tbody>
</table>

5.3.8.2 Output arguments

5.3.9 FindCommentedClassification

Since DICS v3
5.3.9.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByCommentedClassification</td>
<td>Returns the Commented Classification Tree(s) with root identified by the given code or title matching the given AnyNamePart</td>
</tr>
<tr>
<td>FindByProduct</td>
<td>Returns all CommentedClassification referenced by the product(s) matching the given code or name.</td>
</tr>
</tbody>
</table>

5.3.9.2 Output arguments

5.3.10 FindCompoundingIngredient

Since DICS v3
5.3.10.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>findByCNK</td>
<td>Returns the Compounding Ingredient identified by the given CNK number.</td>
</tr>
<tr>
<td>findByOfficialName</td>
<td>Unused – Notion of official name no longer exists in Compounding. Returns the same result as findByAnyName</td>
</tr>
<tr>
<td>findByAnyName</td>
<td>Returns all Compounding Ingredients where any name or synonym matches the given string. A name matches when the name begins with the given string (case insensitive). The given string is at least 3 characters. The Language attribute is not used.</td>
</tr>
</tbody>
</table>

5.3.10.2 Output arguments

5.3.11 FindCompoundingFormula

Since DICS v3
5.3.11.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByCNK</td>
<td>Returns the Compounding Formula identified by the given CNK number.</td>
</tr>
<tr>
<td>FindByOfficialName</td>
<td>Unused – Notion of official name no longer exists in Compounding. Returns the same result as FindByAnyName</td>
</tr>
<tr>
<td>FindByAnyName</td>
<td>Returns all Compounding Formulae where any name or synonym matches the given string. A name matches when the name begins with the given string (case insensitive). The given string is at least 3 characters. The Language attribute is not used.</td>
</tr>
</tbody>
</table>

5.3.11.2 Output arguments

5.3.12 GetListOfTypeVirtualMedicinalProducts

Since DICS v4

The four GetListOfType operations can be used to synchronously get a list of all items in the SAM database. For each of the four types, a reduced list is returned using pagination. Only the name(s) and codes are returned. For a full view, the other consult operations can be used.
### 5.3.12.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>See 5.2.1 Generic attributes</td>
</tr>
<tr>
<td>IssueInstant</td>
<td>See 5.2.1 Generic attributes</td>
</tr>
<tr>
<td>Offset</td>
<td>Used for pagination. Returns the number of results defined in MaxElements, starting from the specified Offset. The first result has index 0. Default: 0</td>
</tr>
<tr>
<td>MaxElements</td>
<td>Used for pagination. Returns the number of results defined in MaxElements, starting from the specified Offset. The first result has index 0. Default: 100</td>
</tr>
<tr>
<td>Delta</td>
<td>If attribute is not null, only those elements changed after the given date are returned by the service.</td>
</tr>
</tbody>
</table>
5.3.12.2 Output arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
</table>

![Diagram of output arguments]
Attributes

See 5.5.25 ConsultCompoundingIngredientType

5.3.13 ConsultCompoundingFormulaType

5.3.14 SynonymType
Field name | Description
--- | ---
xml:lang | The language of this synonym
Rank | Optional rank of the synonym. Synonyms may be ordered by importance or frequency of use. A smaller number is a higher rank.

ListConsultationResponseType

**Vmp/Code** The unique identifier attributed by BCPI to a Virtual Product

**Vmp/Data** A VMP may have had different validity periods with different data over time. All data blocks are returned in a single response.

**Vmp/Data/@StartDate** The start date of the current data block/validity period

**Vmp/Data/@EndDate** The end date. If null, then the current block is valid indefinitely

**Vmp/Data/Abbreviation** Common abbreviation of the product, translated in at least Dutch and French

**Vmp/Data/Name** Official name of the product, translated in at least Dutch and French

### 5.3.15 GetListOfVmpGroups

Since DICS v4
5.3.15.1 Input arguments

See 5.3.12 GetListOfVirtualMedicinalProducts

5.3.15.2 Output arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VmpGroup/Code</td>
<td>The unique identifier attributed by BCPI to a VmpGroup / Generic Prescription Group</td>
</tr>
<tr>
<td>VmpGroup/Data/Name</td>
<td>The name attributed to the VmpGroup, translated in at least Dutch and French.</td>
</tr>
<tr>
<td>Other fields</td>
<td>See above</td>
</tr>
</tbody>
</table>

5.3.16 GetListOfActualMedicinalProducts

Since DICS v4

5.3.16.1 Input arguments

See 5.3.12 GetListOfVirtualMedicinalProducts
### 5.3.16.2 Output arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amp/Code</strong></td>
<td>Unique identifier created by FAMHP composed of a prefix 'SAM', 6 digits and 2 digits separated by a hyphen.</td>
</tr>
<tr>
<td><strong>Amp/Data/OfficialName</strong></td>
<td>The AMP’s official name in the language mentioned on the marketing authorisation. The name contains the strength of the medicinal product.</td>
</tr>
<tr>
<td><strong>Amp/Data/Name</strong></td>
<td>The translations of the AMP’s official name of the AMP in French, Dutch, German and English.</td>
</tr>
<tr>
<td><strong>Amp/Data/PrescriptionName</strong></td>
<td>Standard name identifying a medicinal product for prescriptions, structured uniformly by BCPI.</td>
</tr>
<tr>
<td></td>
<td>This field is translated in French, Dutch, German and English. French and Dutch versions are mandatory and others are optional.</td>
</tr>
<tr>
<td><strong>Amp/Data/AbbreviatedName</strong></td>
<td>Abbreviation of the medicinal product name.</td>
</tr>
<tr>
<td></td>
<td>This field is translated in French, Dutch, German and English. French and Dutch versions are mandatory and others are optional.</td>
</tr>
</tbody>
</table>

### 5.3.17 GetListOfActualMedicinalProductPackages

Since DICS v4

#### 5.3.17.1 Input arguments

See 5.3.12 GetListOfVirtualMedicinalProducts
5.3.17.2 Output arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ampp/CtiExtended</td>
<td>Unique identifier for a Product Package attributed by the FAMHP.</td>
</tr>
<tr>
<td>Ampp/Data/AtcCode</td>
<td>Code following the Anatomical Therapeutic Chemical classification system managed by the WHO.</td>
</tr>
</tbody>
</table>
| Ampp/Data/AbbreviatedName | Abbreviated name of the medicinal product package.  
This field is translated in French, Dutch, German and English.  
French and Dutch versions are mandatory and others are optional. |
| Ampp/Data/PrescriptionName | Structured and uniformly attributed name of the AMPP given by the BCPI as intended for consultation by the medicine prescriber.  
This field is translated in French, Dutch, German and English.  
French and Dutch versions are mandatory and others are optional. |

5.3.18 FindAmpp

Since DICS v4
Consultation method for retrieving a single package instead of a full Product with possibly a multitude of packages.
Interface provided in DICS but currently unimplemented.
5.3.18.1 Input arguments

Since DICS v4

5.3.18.2 Output arguments

5.3.19 FindNonMedicinalProduct

Since DICS v4

5.3.19.1 Input arguments

<table>
<thead>
<tr>
<th>Field name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindByCNK</td>
<td>Returns the Non Medicinal Product identified by the given CNK number.</td>
</tr>
</tbody>
</table>
### FindByName

Returns all Non Medicinal Products where the name matches the given string. A name matches when the name begins with the given string (case insensitive). The given string is at least 3 characters. The Language attribute is not used.

#### 5.3.19.2 Output arguments

![Diagram of output arguments]

#### 5.4 Request Types

##### 5.4.1 FindByActualProduct

![Diagram of FindByActualProduct]

<table>
<thead>
<tr>
<th>Field name</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AmpCode</td>
<td>The AMP Code for the requested product. Formatted as SAM-xxxxxx-xx, with the x’s being digits [0-9]</td>
</tr>
<tr>
<td>AnyNamePart</td>
<td>Looks for AMPs with Official Name or Localized Name starting with the given string.</td>
</tr>
</tbody>
</table>
### 5.4.2 FindByPackage

#### Field name | Descriptions
--- | ---
**AuthorisationNr** | Authorisation number given by FAMPH or European Commission when authorised to be commercialised on the Belgian market.

**CtiExtendedCode** | Unique identifier for an Actual Medicinal Product Package

**AtcCode** | Anatomical Therapeutic Chemical classification system managed by the WHO[^7].

**AnyNamePart** | Search for the string in any name field of the Package.

**Commercialised** | The package(s) identified by any of the above criteria are Commercialised at the given date. Boolean.

**InSupplyProblem** | The package(s) identified by any of the above criteria are In Supply Problem at the given date. Boolean.

**ComponentEquivalent > Content** | Related equivalent content packaging specifications of the AMPP Component. 
**Attribute**: Unit (a unit that is available in the reference tables)

[^7]: [http://www.whocc.no/atc/structure_and_principles/](http://www.whocc.no/atc/structure_and_principles/)
5.4.3  FindByDmpp

findByDmpp

Search an AMP based on a DMPP identifier. All products with packages linked to the given DMPP are returned.

5.4.4  FindByIngredient

findByIngredient

Search an AMP based on ingredients. All AMPs containing all requested ingredients are returned.

5.4.5  FindByVirtualProduct

findByVirtualProduct

Search an AMP based on corresponding VMP code or name. For more complex searches, first call the FindVmp service to get the VMPCodes.
5.4.6 FindByGenericPrescriptionGroup

```
FindByGenericPrescriptionGroup
```

5.4.7 FindByCompany

```
FindByCompany
```

5.4.8 FindByTherapeuticMoietiy

```
FindByTherapeuticMoietiy
```

5.4.9 FindByCommentedClassification

```
FindByCommentedClassification
```
5.4.10 **HasActualComponentWith**

Must be combined with at least one FindBy element. Only those AMPs who have a component matching these attributes will be returned.

5.4.11 **HasVirtualComponentWith**

Must be combined with at least one FindBy element. Only those VMs who have a component matching these attributes will be returned.

5.4.12 **HasWadaClassification**

International standard number given by the WADA institution that categorizes medicinal products according to harmonized anti-doping policies. Rx. (A), (W), (ACU), (Hr). WADA Code

The full or partial name of the WADA classification in any language.
5.4.13 ListConsultationRequestType

### Field name | Description
--- | ---
Id | See 5.2.1 Generic attributes
IssueInstant | See 5.2.1 Generic attributes
Offset | Used for pagination. Returns the number of results defined in MaxElements, starting from the specified Offset. The first result has index 0.
Default: 0
MaxElements | Used for pagination. Returns the number of results defined in MaxElements, starting from the specified Offset. The first result has index 0.
Default: 100
Delta | If attribute is not null, only those elements changed after the service returns the given date.
5.5 Response Types

5.5.1 ConsultAmpType

```
ConsultAmpType
  - Code (string)
  - WmpCode (positiveInteger)
  - StartDate (date)
  - EndDate (date)
  - Status
    - Name (ConsultTextType)
    - BlackTriangle (boolean)
    - MedicineType
    - OfficialName (string)
    - AbbreviatedName (ConsultTextType)
    - ProprietarySuffix (ConsultTextType)
    - PrescriptionName (ConsultTextType)
    - CompanyActorNr
    - AmpComponent (ConsultAmpComponentType)
    - Amppp (ConsultAmpComponentType)
```

5.5.2 ConsultAmpComponentType

```
ConsultAmpComponentType
  - SequenceNr (positiveInteger)
  - WmpComponentCode (positiveInteger)
  - StartDate (date)
  - EndDate (date)
  - Dividable
  - Scored
  - Crushable
  - ContainsAlcohol
  - SugarFree
  - ModifiedReleaseType
  - SpecificDrugDevice
  - Dimensions
  - Name (ConsultTextType)
  - Note (ConsultTextType)
  - PharmaceuticalForm
    - RouteOfAdministration
    - RealActualIngredient (ConsultRealActualIngredientType)
```
5.5.3 ConsultRealActualIngredientType

5.5.4 ConsultRealActualIngredientEquivalentType
### 5.5.5 ConsultAmppType

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CbExtended</td>
<td>boolean</td>
</tr>
<tr>
<td>StartDate</td>
<td>date</td>
</tr>
<tr>
<td>EndDate</td>
<td>date</td>
</tr>
<tr>
<td>Orphan</td>
<td>boolean</td>
</tr>
<tr>
<td>LeafletLink</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>SpcLink</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>RmoPatientLink</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>RmoProfessionalLink</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>ParallelCircuit</td>
<td>[0..1]</td>
</tr>
<tr>
<td>ParallelDistributor</td>
<td>[0..1] string</td>
</tr>
<tr>
<td>PackMultiplier</td>
<td>[0..1] positiveInteger</td>
</tr>
<tr>
<td>PackAmount</td>
<td>[0..1]</td>
</tr>
<tr>
<td>PackDisplayValue</td>
<td>[0..1] string</td>
</tr>
<tr>
<td>AuthorisationNr</td>
<td>string</td>
</tr>
<tr>
<td>SingleUse</td>
<td>[0..1] boolean</td>
</tr>
<tr>
<td>SpeciallyRegulated</td>
<td>[0..1]</td>
</tr>
<tr>
<td>AbbreviatedName</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>PrescriptionName</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>Note</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>PosologyNote</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>CrmLink</td>
<td>[0..1] ConsultTextType</td>
</tr>
<tr>
<td>ExFactoryPrice</td>
<td>[0..1] decimal</td>
</tr>
<tr>
<td>ReimbursementCode</td>
<td>[0..1]</td>
</tr>
<tr>
<td>Atc</td>
<td>[0..*] AtcClassificationType</td>
</tr>
<tr>
<td>DeliveryModus</td>
<td>DeliveryModusType</td>
</tr>
<tr>
<td>DeliveryModusSpecification</td>
<td>[0..1] DeliveryModusSpecificationType</td>
</tr>
<tr>
<td>NoGenericPrescriptionReason</td>
<td>[0..*] NoGenericPrescriptionReasonType</td>
</tr>
<tr>
<td>DistributorCompanyActorNr</td>
<td>[0..1]</td>
</tr>
<tr>
<td>AmppComponent</td>
<td>[1..*] ConsultAmppComponentType</td>
</tr>
<tr>
<td>Commercialization</td>
<td>[0..1] ConsultCommercializationType</td>
</tr>
<tr>
<td>SupplyProblem</td>
<td>[0..1] ConsultSupplyProblemType</td>
</tr>
<tr>
<td>DerogationImport</td>
<td>[0..*] ConsultDerogationImportType</td>
</tr>
<tr>
<td>Dmpp</td>
<td>[0..*] ConsultDmppType</td>
</tr>
</tbody>
</table>
5.5.6 ConsultAmpComponentType

```xml
<ampComponentKeyType extension>
  <attribute name="SequenceId">
    <type>core:PositiveShortType</type>
  </attribute>
  <attribute name="ConsultAmpComponentType">
    <type>amp:ConsultAmpComponentType</type>
    <attribute name="ComponentName">
      <type>xs:string</type>
      <value>ConsultAmpComponentName</value>
    </attribute>
    <attribute name="PackSpecification">
      <type>xs:string</type>
      <value>PackSpecificationValue</value>
    </attribute>
    <attribute name="DeviceType">
      <type>DeviceType</type>
    </attribute>
    <attribute name="PackagingClosure">
      <type>PackagingClosureType</type>
    </attribute>
    <attribute name="PackagingMaterial">
      <type>PackagingMaterialType</type>
    </attribute>
    <attribute name="PackagingType">
      <type>PackagingType</type>
    </attribute>
    <attribute name="AmpComponentEquivalent">
      <type>ConsultAmpComponentEquivalent</type>
    </attribute>
  </attribute>
</ampComponentKeyType>
```
5.5.7 ConsultAmppComponentEquivalentType

ConsultAmppComponentEquivalentType

attributes

SequenceNbr
- type: core:PositiveShortType
- use: required

Number determined by the provider for distinguishing an AMPPC Equivalent Specification from another. In case of many AMPPC Equivalent Specifications under an AMPPC, the order gives the priority of use of the equivalent specification from the most important (lowest value) to the least important (highest value).

attributes

Content
- type: core:QuantityType
5.5.8 ConsultSupplyProblemType

- **attributes**
  - **ExpectedEndOn**
    - Type: `xs:date`
    - Expected end date of the supply problem.
  - **ReportedBy**
    - Type: `xs:string`
    - Name of the reporter of the supply problem: company, doctor, patient, pharmacist, other.
  - **ReportedOn**
    - Type: `xs:date`
    - Date of the notification of the supply problem.
  - **ContactName**
    - Type: `xs:string`
    - Contact name for the supply problem.
  - **ContactMail**
    - Type: `xs:string`
    - Contact's mail address.
  - **ContactCompany**
    - Type: `xs:string`
    - Contact's company.
  - **Phone**
    - Type: `xs:string`
    - Contact's phone number.
  - **Reason**
    - Type: `ConsultTextType`
    - If there is a supply problem, here's why.
      
      This field is translated in French, Dutch, German and English. When it is specified, French and Dutch versions are mandatory and others are optional.
  - **AdditionalInformation**
    - Type: `ConsultTextType`
    - If there is a supply problem, here's why.
      
      This field is translated in French, Dutch, German and English. When it is specified, French and Dutch versions are mandatory and others are optional.
5.5.9 ConsultDerogationImportType

Available information (identification or description) of the imported drug. When it is specified, French and Dutch versions are mandatory and others are optional.
5.5.10 ConsultDmppType

ConsultDmppType

amp.DmppKey (extension)

attributes

DeliveryEnvironment

type: core.DeliveryEnvironment
use: required

Type of environment in which a medicinal product is delivered.
Possible values:
- ‘P’ for Public
- ‘H’ for Hospital
- ‘N’ for Manufacturer
- ‘C’ for Residential care

Code

type: core.DmppCode
use: required

Code number used to uniquely identify a package or a group of packages being delivered in a given environment and reimbursed according to the same rules.

ConsultDmpp

attributes

amp.DmppFields

Cheap

type: xs:boolean

This product is considered by NHDI as cheap.

Cheapest

type: xs:boolean

This product is considered by NHDI as the cheapest on the market.

amp.DmppRemburseableFields

Reimbursable

type: xs:boolean

By default, a DMPP is not reimbursable, even if an existing reimbursement contract references the same CNK.
The NHDI must set this flag explicitly to True if the DMPP is Reimbursable.
5.5.11 ConsultVmpType

```
core:VmpKeyType (extension)

- attributes
  - Code
    - type: xs:positiveInteger
    - use: required

- attributes
  - Name
    - type: ConsultTextType
  - Abbreviation
    - type: ConsultTextType
  - Wada
    - type: WadaType
    - multiplicity: 0..\infty
    - CommentedClassification
      - type: ConsultCommentedClassification
        - multiplicity: 0..\infty
  - VmpGroup
    - type: ConsultVmpGroupType
  - Vtm
    - type: ConsultVtmType
  - VmpComponent
    - type: ConsultVmpComponentType
    - multiplicity: 1..\infty
```
5.5.12 ConsultCommentedClassificationType

`vmp:CommentedClassificationKeyType (extension)`

- **Code**
  - `type xs:string`
  - `use required`

`attributes`

- `ConsultCommentedClassificationType`
  - **Title**
    - `type ConsultTextType`
    - Title of the referenced classification level. This field is translated in French, Dutch, German and English. French and Dutch versions are mandatory and others are optional.
  - **Content**
    - `type ConsultTextType`
    - Content of the referenced classification level. This field is translated in French, Dutch, German and English. French and Dutch versions are mandatory and others are optional.
  - **PosologyNote**
    - `type ConsultTextType`
    - Any note about the posology for the referenced classification level. This field is translated in French, Dutch, German and English. French and Dutch versions are mandatory and others are optional.
  - **URL**
    - `type ConsultTextType`
    - URL to relevant information from BCPI about the referenced classification level.
5.5.13 ConsultVmpGroupType

5.5.14 ConsultVtmType
5.5.15 ConsultVmpComponentType
5.5.16 ConsultVirtualIngredientType

Type of use for the specified substance (given by the link to the reference entity Substance).

Possible values: - ACTIVE_SUBSTANCE: the substance participates in the medicinal product effect.
- EXCIPIER: not active substance used to make the medicinal product more attractive.

Strength of the specified substance. Some substance quantities cannot be specified exactly, so a range is provided. If an exact quantity is known, minimum and maximum will have the same value.
5.5.17 ConsultCompanyType

- **ConsultCompanyType**

  - **CompanyType**
  - **IdentificationNumber**
  - **Denomination**
  - **LegalForm**
  - **StreetName**
  - **PostalCode**
  - **City**
  - **Language**
  - **Website**

  *Diagram showing attributes and their descriptions.*
5.5.18 ConsultLegalBasisType
5.5.19 ConsultRecursiveLegalReferenceType
5.5.20 ConsultRecursiveLegalTextType

```
legaltext:LegalTextKeyType (extension)

attributes

Key
  type ReimbursementLawKeyType
  use required

attributes

ConsultRecursiveLegalTextType

Content
  type ConsultTextType

Type
  type legaltext:LegalTextTypeType

Allinea, point

SequenceNr
  type xs:integer

LastModifiedOn
  type xs:date

LegalText
  type ConsultRecursiveLegalTextType
```

ConsultRecursiveLegalTextType
5.5.21 ConsultFormalInterpretationType

5.5.22 ConsultReimbursementConditionType
5.5.23 ConsultReimbursementTermType
5.5.24 ConsultReimbursementContextType
5.5.25 ConsultCompoundingIngredientType

5.5.26 ConsultCompoundingFormulaType
5.5.27 SynonymType

Field name | Description
---|---
xml:lang | The language of this synonym
Rank | Optional rank of the synonym. Synonyms may be ordered by importance or frequency of use. A smaller number is a higher rank.
5.5.28  ListConsultationResponseType
5.5.29 ConsultNonMedicinalProductType

**Attributes**

- **Code**
  - type: `core:DmppCodeType`
  - use: `required`

  Non-Medical Products are uniquely identified by a CNK code.

- **CodeType**
  - type: `core:DmppCodeTypeType`
  - default: CNK

  Code Type for Non-Medical Products is always CNK. Code Type is present in the KeyType for uniformity with other SAM components.

**Group: validityPeriod**

- **StartDate**
  - type: `xs:date`
  - use: `required`

- **EndDate**
  - type: `xs:date`
  - use: `optional`

**ConsultNonMedicinalProductType**

- **Name**
  - type: `ConsultTextType`

- **Category**
  - type: `xs:string`
  - derivedBy: `restriction`

  - "S" = spécialité
  - "H" = homéopathie
  - "O" = diététique - nutrition - alimentation
  - "C" = cosmétique
  - "E" = hygiène
  - "M" = matérielle première
  - "B" = bandeau et pansement
  - "T" = stomie et incontinence
  - "A" = accessoire
  - "R" = rasoir
  - "I" = pesticide à usage agricole
  - "O" = dispositif medical
  - "F" = autre
  - "D" = moyen diagnostique
  - "K" = bioré

- **CommercialStatus**
  - type: `xs:string`
  - derivedBy: `restriction`

  - "M" = sur le marché
  - "D" = retiré du marché
  - "I" = interdit par A.R. ou A.M.
  - "O" = suspendu par A.M. ou A.R.
  - "U" = coffret d'urgence et pas sur le marché belge

- **Producer**
  - type: `ConsultTextType`

- **Distributor**
  - type: `ConsultTextType`
6. Risks and security

6.1 Risks & safety

6.2 Security

6.2.1 Business security

In case the development adds an additional use case based on an existing integration, the eHealth platform must be informed at least one month in advance with a detailed estimate of the expected load. This will ensure an effective capacity management.

In case of technical issues on the WS, the partner may obtain support from the contact center (see Chap 3).

**In case the eHealth platform finds a bug or vulnerability in its software, we advise the partner to update his application with the newest version of the software within 10 business days.**

**In case the partner finds a bug or vulnerability in the software or web service that the eHealth platform delivered, he is obliged to contact and inform us immediately. He is not allowed to publish this bug or vulnerability in any case.**

6.2.2 Web service

WS security used in this manner is in accordance with the common standards. Your call will provide:

- SSL one way
- Time-to-live of the message: one minute.
- Signature of the timestamp, body and binary security token. This will allow the eHealth platform to verify the integrity of the message and the identity of the message author.
- No encryption on the message.

6.2.3 The use of username, password and token

The username, password and token are strictly personal. Partners and clients are not allowed to transfer them.

Every user takes care of his username, password and token and he is forced to confidentiality of it. Moreover, every user is responsible of every use, which includes the use by a third party, until the inactivation.
7. Test and release procedure

7.1 Procedure

This chapter explains the procedures for testing and releasing an application in acception or production.

7.1.1 Initiation

If you intend to use the eHealth platform service, please contact info@ehealth.fgov.be. The project department will provide you with the necessary information and mandatory documents.

7.1.2 Development and test procedure

You have to develop a client in order to connect to our WS. Most of the required integration info is published in on the portal of the eHealth platform.

Upon request, the eHealth platform provides you in some cases, with a mock-up service or test cases in order for you to test your client before releasing it in the acceptance environment.

7.1.3 Release procedure

When development tests are successful, you can request to access the acceptance environment of the eHealth platform. From this moment, you start the integration and acceptance tests. The eHealth platform suggests testing during minimum one month.

After successful acceptance tests, the partner sends his test results and performance results with a sample of “eHealth request” and “eHealth answer” by email to his point of contact at the eHealth platform.

Then the eHealth platform and the partner agree on a release date. The eHealth platform prepares the connection to the production environment and provides the partner with the necessary information. During the release day, the partner provides the eHealth platform with feedback on the test and performance tests.

For further information and instructions, please contact: integration-support@ehealth.fgov.be.

7.1.4 Operational follow-up

Once in production, the partner using the eHealth platform service for one of his applications will always test first in the acceptance environment before releasing any adaptations of its application in production. In addition, he will inform the eHealth platform on the progress and test period.

7.2 Test cases

No specific test cases have been defined. The test environments contain the same real medicine as the production environment: you can query the database with any existing (approved) medicinal product.
8. Error and failure messages

8.1 Business errors

Business errors are forwarded and mapped to eHealth standard response status.

Status codes can be the following:

<table>
<thead>
<tr>
<th>Status code (lvl 1)</th>
<th>Status code (lvl 2)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>urn:be:fgov:ehealth:2.0:status:Success</td>
<td>urn:be:fgov:ehealth:2.0:status:DataNotFound</td>
<td>No data found</td>
</tr>
<tr>
<td>urn:be:fgov:ehealth:2.0:status:Requester</td>
<td>urn:be:fgov:ehealth:2.0:status:InvalidInput</td>
<td>Invalid input</td>
</tr>
</tbody>
</table>

Status details come from the SAM v2 services and are displayed as Anomaly elements:

**AnomalyType**

<table>
<thead>
<tr>
<th>Field name</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Yes</td>
<td>(String) SAMv2 Error code.</td>
</tr>
<tr>
<td>Description</td>
<td>Yes</td>
<td>Textual description of the error.</td>
</tr>
<tr>
<td>TargetObject</td>
<td>Yes</td>
<td>Element of the request’s structure where the error is reported.</td>
</tr>
<tr>
<td>TargetReference</td>
<td>Yes</td>
<td>Value or element name that can be used to identify on which element the error is reported.</td>
</tr>
</tbody>
</table>

List of codes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>CONSULT_LANG_INCORRECT</td>
</tr>
<tr>
<td>1002</td>
<td>CONSULT_AMP_NO_VMP_FOUND</td>
</tr>
<tr>
<td>1003</td>
<td>CONSULT_AMP_NO_AMP_FOUND</td>
</tr>
<tr>
<td>1004</td>
<td>CONSULT_CPN_NO_CPN_FOUND</td>
</tr>
<tr>
<td>1005</td>
<td>CONSULT_VMP_NO_VMP_FOUND</td>
</tr>
<tr>
<td>1006</td>
<td>CONSULT_VMP_NO_VMP_GROUP_FOUND</td>
</tr>
<tr>
<td>1007</td>
<td>CONSULT_RML_NO_LGT_FOUND</td>
</tr>
<tr>
<td>Error Code</td>
<td>Component</td>
</tr>
<tr>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>SOA-00001</td>
<td>Service</td>
</tr>
</tbody>
</table>
| SOA-01001  | Consumer  | Service call not authenticated | From the security information provided,  
• or the consumer could not be identified  
• or the credentials provided are not correct |
| SOA-01002  | Consumer  | Service call not authorized | • The consumer is identified and authenticated, but is not allowed to call the given service. |

**Example of a no data found business error:**

```xml
<urn:FindCompanyResponse Id="_8671c80f-b769-49d7-856c-b51f54a281e8" IssueInstant="2016-07-28T15:39:35.764+02:00" InResponseTo="baf225192-1ca1-4402-bd33-9ebb3d978f19" SearchDate="2016-06-27" xmlns:urn="urn:be:fgov:ehealth:dics:protocol:v2">
    <commonscore:StatusCode Value="urn:be:fgov:ehealth:2.0:status:DataNotFound"/>
    <commonscore:StatusDetail>
      <ehealthns:Anomaly>
        <Code>1004</Code>
        <Description>No company found for given criteria.</Description>
        <TargetObject>Consult Company</TargetObject>
        <TargetReference>Consult Company</TargetReference>
      </ehealthns:Anomaly>
    </commonscore:StatusDetail>
  </commonscore:Status>
</urn:FindCompanyResponse>
```

### 8.2 Technical errors

Technical errors are errors inherent to the internal working of a web service. They are returned as SOAP Faults. Please contact the eHealth platform in case of a technical error.

**Description of the possible SOAP fault exceptions**

<table>
<thead>
<tr>
<th>Error code</th>
<th>Component</th>
<th>Description</th>
<th>Solution/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOA-00001</td>
<td>Service</td>
<td>Service error</td>
<td>This is the default error sent to the consumer in case further details are unknown.</td>
</tr>
</tbody>
</table>
| SOA-01001  | Consumer  | Service call not authenticated | From the security information provided,  
• or the consumer could not be identified  
• or the credentials provided are not correct |
<p>| SOA-01002  | Consumer  | Service call not authorized | • The consumer is identified and authenticated, but is not allowed to call the given service. |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| SOA-02001 | Provider  | Service not available. Please contact service desk    | • An unexpected error has occurred  
• Retries will not work  
• Service desk may help with root cause analysis |
| SOA-02002 | Provider  | Service temporarily not available. Please try later   | • An unexpected error has occurred  
• Retries should work  
• If the problem persists service desk may help |
| SOA-03001 | Consumer  | Malformed message                                     | This is default error for content related errors in case further details are unknown. |
| SOA-03002 | Consumer  | Message must be SOAP                                  | Message does not respect the SOAP standard                             |
| SOA-03003 | Consumer  | Message must contain SOAP body                         | Message respects the SOAP standard, but body is missing               |
| SOA-03004 | Consumer  | WS-i compliance failure                                | Message does not respect the WS-I standard                              |
| SOA-03005 | Consumer  | WSDL compliance failure                                | Message is not compliant with WSDL in Registry/Repository              |
| SOA-03006 | Consumer  | XSD compliance failure                                 | Message is not compliant with XSD in Registry/Repository               |
| SOA-03007 | Consumer  | Message content validation failure                     | From the message content (conform XSD):  
• Extended checks on the element format failed  
• Cross-checks between fields failed |