SPF Justice / FOD Justitie

CJCS-CG

TECHNICAL ANALYSIS

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1 Introduction

This document defines the technical analysis of the software interface implemented by the system CJCS to connect the municipalities of Belgium. This software interface is identified as the "**CJCS-CG web service**". It implements the functionalities described in the **Business Analysis** document.

After presenting the use of "WS-Addressing" and "Options", each service operation is described in details in a separate chapter. For each of them, the request and response parts are presented. Then, some examples of usage are provided.

The document ends with the list of "Error codes" and the "Frequently ask questions".

In addition to this document, a **SOAP UI project** is provided with the happy path examples. This SOAP UI project must be considered as a better up-to-date reference for sample requests and responses. Please use the SOAP UI project rather than the given examples in the document.

1.1 References

N°	Document	Description
01	**CJCS-CG-BA**	This document describes the business requirements for the connection of the municipalities to the Central Criminal Records
02	**CJCSCGServiceTests**	This SOAPUI project defines a set of sample requests to validate the connection to the CJCS-CG Web Service

2 WS-Addressing

WS-Addressing is used for all the requests, but in a limited scope: only the MessageID element of WS-Addressing is used.

The typical request will then be:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
               xmlns:ser="http://be/fgov/just/cjr/extract/service-v1.0">
   <soap:Header>
     <wsa:MessageID xmlns:wsa="http://www.w3.org/2004/12/addressing">a2749a0f-156f-40d3-9135-367ed901d244</wsa:MessageID>
   </soap:Header>
   <soap:Body>
      ...
   </soap:Body>
</soap:Envelope>
```

Figure 1: Typical request with WS-Addressing

2.1 Important note regarding the examples

For the ease of use and reading, the examples do NOT contain the WS-Addressing, but rather the standard header declaration:

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
               xmlns:ser="http://be/fgov/just/cjr/extract/service-v1.0">
   <soap:Header/>
   <soap:Body>
      ...
   </soap:Body>
</soap:Envelope>
```

Figure 2: Examples do NOT contain the WS-Addressing

3 Options

All requests have an "options" element to mitigate future (small) changes in the technical interface (WSDL). The structure is the following:

Figure 3: Options structure

When applicable, these options are listed in each section.

4 "Request a CJCS extract" service operation

This service operation is used to:

- initiate a new CJCS extract
- track the status of a single CJCS extract request (by providing the uniqueId)
- download the PDF document of a single CJCS extract request (by providing the uniqueId)

4.1 Definition

4.1.1 Request

Figure 4: Request part of operation requestExtract

Tag	Type	Mapping	Description
municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (detailed in table below)
nationalNumber	String(11) (choice with *uniqueId tag*)	1	National number of the person (without dashes, e.g. 84041411142)

language	LanguageType (choice with *uniqueId tag*)	1	Language of the extract (detailed in table below)
type	String (choice with *uniqueId tag*)	1	A string containing the extract type code obtained with the "List extract types" service operation
comment	String(200) (choice with uniqueId tag)	0-1	A freetext comment for the extract. **If the webservice is directly consumed by a citizen portal, this field cannot be used**
reference	String(200) (choice with *uniqueId tag*)	0-1	Free text reference for the request
uniqueId	UniqueIdType (choice with five previous tags)	0-1	Unique identifier of an extract obtained after a first request extract. The type only defines the pattern [0-9]{8}-[0-9]{1,8} e.g. 20150331-123
options	options	0-1	Optional parameters

4.1.1.1LanguageType

Values	Description
Dutch	The extract will be generated in Dutch
French	The extract will be generated in French
German	The extract will be generated in German

4.1.1.2MunicipalityType

Tag	Type	Mapping	Description
NISCode	Integer	1	Municipality NIS code
requestorNationalNumber	String(11)	1	National number of municipality employee

			If the webservice is directly consumed by a citizen application, this field contains the national number of the citizen

4.1.1.3eBox Optional parameter

When requesting an extract, an option can be set in order transmit the extract to the e-box of the citizen (https://myebox.be/). This parameter must be inserted in the "options" section of the requestExtractRequest SOAP message.

As explained in the paragraph 3 Options, an "options" section with an "item" section can be added. For ebox, the key/value tags : **EBOX**/**true** must be added. See the example below.

Only the following key/value pair will allow to transmit the extract to the e-box of the citizen.

Tag	Type	Mapping	Description
key	String	1	Must be set to : EBOX
value	String	1	Must be set to : true

```
        <ser:options>
            <ser:item>
                <ser:key>EBOX</ser:key>
                <ser:value>true</ser:value>
            </ser:item>
        </ser:options>
    </ser:requestExtractRequest>
</soap:Body>
</soap:Envelope>
```

Figure 5: Soap Snippet showing how to add the e-box option

4.1.1.4Public document - Translation annex Optional parameter

When requesting an extract, an option can be set to request that a translation annex be added to the extract so that it can be used as a public document in a European context. This parameter must be inserted in the "options" section of the requestExtractRequest SOAP message.

As explained in the paragraph 3 Options, an "options" section with an "item" section can be added. For a public document, the key is: **TRANSLATION_ANNEX** must be added with as value the code for the required language according to ISO 6391. See the example below.

NOTE: the annex is only relevant for a blank register, it will only be added if that is the case, and ignored if not.

Only the following key/value pair will allow to receive the extract with the annex.

Tag	Type	Mapping	Description

key	String	1	Must be set to : **TRANSLATION_ANNEX**
value	String	1	Must be set to the ISO 6391 language code (two letter, lower case), one of: nl, fr, de, bg, cs, da, el, en, es, et, fi, ga, hr, hu, it, lt, lv, mt, pl, pt, ro, sk, sl, sv

```
<ser:options>
    <ser:item>
        <ser:key>TRANSLATION_ANNEX</ser:key>
        <ser:value>it</ser:value>
    </ser:item>
</ser:options>
</ser:requestExtractRequest>
</soap:Body>
</soap:Envelope>
```

Figure 6: Soap Snippet showing how to add the translation annex/public document option

4.1.2 Response

Figure 7: Response part of operation requestExtract

Tag	Type	Mapping	Description
nationalNumber	String(11)	1	National number of the person

returnCode	ReturnCodeType	1	Return code of the operation (detailed in table below)
uniqueId	UniqueIdType	1	Unique identifier of an extract. The type only defines the pattern [0-9]{8}-[0-9]{1,8} e.g. 20150331-123
filename	String	0-1 (choice with *error tag*)	The file name of the generated extract.
filecontent	MTOM Attachment	1 (choice with *error tag*)	Extract in PDF format
error	ErrorType	1-N (choice with *filename and fileContent tags*)	List of errors returned by the service (detailed in table below)

4.1.2.1ReturnCodeType

Values	Description
GENERATED	The extract has been successfully generated
IN_TREATMENT	The extract is in treatment
~~REQUEST_IMPOSSIBLE~~ (Obsolete)	It is not possible to request an extract for the given national number because the dossier is either incomplete or no dossier has been found - Since 01/01/2018, the criminal register accepts requests for any valid national number. This response is not sent anymore.
FAILURE	An error occurred

4.1.2.2ErrorType

Tag	Type	Mapping	Description
code	String	1	Error code returned by the service (c.f. Error codes)

id	long	0-1	Id of the error to communicate to helpdesk for investigation, provided when applicable

4.2 Usage

4.2.1 Requesting a new extract

The first action a municipality can do is requesting a new extract using all previously defined tags except *uniqueId*.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:ser="http://b
   <soap:Header/>
   <soap:Body>
      <ser:requestExtractRequest>
         <ser:nationalNumber>63062139747</ser:nationalNumber>
         <ser:language>French</ser:language>
         <ser:type>595</ser:type>
         <ser:motivation>a motivation</ser:motivation>
         <ser:reference>a reference</ser:reference>
         <ser:municipality>
            <ser:NISCode>92094</ser:NISCode>
            <ser:requestorNationalNumber>71092122124</ser:requestorNationalNumber>
         </ser:municipality>
      </ser:requestExtractRequest>
   </soap:Body>
</soap:Envelope>
```

Figure 8: Example of correct request

4.2.1.1 Extract successfully generated

When the extract is successfully generated by the service, the *returnCode* tag is *GENERATED* and the *pdf* tag contains the reference to the pdf attached using MTOM.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
               xmlns:ser="http://be/fgov/just/cjr/extract/service-v1.0">
   <soap:Header/>
   <soap:Body>
      <ser:requestExtractResponse>
         <ser:nationalNumber>63062139747</ser:nationalNumber>
         <ser:returnCode>GENERATED</ser:returnCode>
         <ser:pdf>cid:446025511294</ser:pdf>
      </ser:requestExtractResponse>
   </soap:Body>
</soap:Envelope>
```

Figure 9: Example of successful response containing the PDF

4.2.1.2 Extract in treatment

When the extract cannot be directly generated by the service, the *returnCode* is *IN_TREATMENT* and thus no pdf is sent back. See section 4.2 for instructions about tracking an extract in treatment.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:requestExtractResponse xmlns:ns2="http://be/fgov/just/cjr/ext
         <ns2:nationalNumber>63062139747</ns2:nationalNumber>
         <ns2:returnCode>IN_TREATMENT</ns2:returnCode>
      </ns2:requestExtractResponse>
   </env:Body>
</env:Envelope>
```

Figure 10: Example of response with delayed extract

4.2.1.3Impossible extract

Obsolete - Since 01/01/2018, the criminal register accepts requests for any valid national number. This response is no more sent.

When the extract is impossible to request because the dossier is either incomplete or wasn't found, the *returnCode* is *REQUEST_IMPOSSIBLE* and the flow stops here.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:requestExtractResponse xmlns:ns2="http://be/fgov/just/cjr/extract/service-v0.2">
         <ns2:nationalNumber>63062139747</ns2:nationalNumber>
         <ns2:returnCode>REQUEST_IMPOSSIBLE</ns2:returnCode>
      </ns2:requestExtractResponse>
   </env:Body>
</env:Envelope>
```

Figure 11: Example of response with impossible extract

4.2.1.4Error cases

When the service could not generate the extract because of a validation error or other, the list of errors is provided in the *error* tags. When applicable, an id is provided along with the error; this id should be communicated to the helpdesk to help with the investigation. In the following example, two errors are returned, the first indicates that the national number of the citizen is invalid, and the other is caused by an unknown extract type.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:requestExtractResponse xmlns:ns2="http://be/fgov/just/cjr/extract/service-v0.2">
         <ns2:nationalNumber>63062139746</ns2:nationalNumber>
         <ns2:returnCode>FAILURE</ns2:returnCode>
         <ns2:error>
            <ns2:code>INVALID_CITIZEN_NN</ns2:code>
            <ns2:id>104692</ns2:id>
         </ns2:error>
         <ns2:error>
            <ns2:code>UNKNOWN_TYPE</ns2:code>
            <ns2:id>104693</ns2:id>
         </ns2:error>
      </ns2:requestExtractResponse>
   </env:Body>
</env:Envelope>
```

Figure 12: Example of response containing error codes

4.2.2 Delayed extract

When an extract could not be generated directly, the municipality will need to track it using operation *trackExtract* described in section 5. It will then receive a unique identifier of the extract called a *uniqueId*. This *uniqueId* can then be used with operation *requestExtract* to download the extract in *pdf* format. The tags *nationalNumber*, *language*, *type* and *reference* cannot be present in this request since they are only used for new requests.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:ser="http:/
   <soap:Header/>
   <soap:Body>
      <ser:requestExtractRequest>
         <ser:uniqueId>20150321-123</ser:uniqueId>
         <ser:municipality>
            <ser:NISCode>92094</ser:NISCode>
            <ser:requestorNationalNumber>71092122124</ser:requestorNationalNumber>
         </ser:municipality>
      </ser:requestExtractRequest>
   </soap:Body>
</soap:Envelope>
```

Figure 13: Example of request using uniqueId

Naturally, this type of request could be submitted at any time, when the extract is not ready, or even with an unknown *uniqueId* so all types of responses presented in section 4.2.1 apply here also.

5 "List extract types" service operation

This service operation is used to:

- List available extract types (595, 596.1…) for requesting a CJCS extract

5.1 Definition

5.1.1 Request

Figure 14: Request part of operation listExtractTypes

Tag	Type	Mapping	Description
options	options	0-1	Optional parameters

5.1.2 Response

Figure 15: Response part of operation listExtractTypes

Tag	Type	Mapping	Description
extractType	ExtractTypeType	0-N	The list of extract types (explained in table below)

5.1.2.1 ExtractTypeType

Tag	Type	Mapping	Description
code	String (50)	1	The extract type code.

frenchDescription	String	1	The French description of the extract type. The length is not enforced in the xsd, but it will never be more than 150.
dutchDescription	String	1	The Dutch description of the extract type. The length is not enforced in the xsd, but it will never be more than 150.
germanDescription	String	1	The German description of the extract type. The length is not enforced in the xsd, but it will never be more than 150.

5.2 Usage

The operation is self-explanatory.

6 "Track a CJCS extract" service operation

This service operation is used to:

- Track extract requests for a given national number (living in the municipality)
- Track all extract requests of the municipality

6.1 Definition

6.1.1 Request

Figure 16: Request part of operation trackExtract

Tag	Type	Mapping	Description
municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (same as in section 4.1.1.2)
nationalNumber	String(11)	0-1	Used to filter results on a national number. This national number can be partial
reference	String(200)	0-1	Used to filter results on a reference

onlyReadyToDownload	boolean	1	Toggle to return only the requests which are in status 'GENERATED' and have not yet been downloaded. When set to false, all requests are returned.
parameters	RequestPagingType	1	Parameters for the paging (explained below)
options	options	0-1	Optional parameters

6.1.1.1RequestPagingType

Tag	Type	Mapping	Description
resultsPerPage	int	1	Number of requests to display per page (number between 10 and 100)
pageNumber	int	0-1	The page the user wishes to request. If no value is provided, the first page will be returned
sorting	SortingType	0-1	The sorting parameters (explained below)

6.1.1.2SortingType

Tag	Type	Mapping	Description
column	ColumnType	1	The column used for the sorting (explained below)
order	OrderType	1	The sorting order (explained below)

6.1.1.3ColumnType

Values	Description
NATIONAL_NUMBER	Sort by national number

LANGUAGE	Sort by language
TYPE	Sort by extract type
REFERENCE	Sort by reference
STATUS	Sort by status

6.1.1.4OrderType

Values	Description
ASCENDING	Sort in ascending order
DESCENDING	Sort in descending order

6.1.2 Response

Figure 17: Response part of operation trackExtract

Tag	Type	Mapping	Description
paging	ResponsePagingType (choice with *error* tag)	1	Paging information of the response (detailed below)
requestInformation	RequestInformationType (choice with *error* tag)	0-N	Information regarding an extract request (detailed in table below)
error	ErrorType (choice with *two previous* tags)	1-N	List of errors returned by the service (same as in section 4.1.2.2)

6.1.2.1RequestInformationType

Tag	Type	Mapping	Description
nationalNumber	String(11)	1	National number of the person (without dashes, e.g. 84041411142)
language	LanguageType	1	Language of the extract (same as in section 4.1.1.1)
type	String	1	Extract type (e.g. 595, 596.1-2...)
reference	String(200)	0-1	Free text reference for the request
status	String	1	The status of the request (GENERATED or IN_TREATMENT)
uniqueId	UniqueIdType	1	Unique identifier of an extract. The type only defines the pattern [0-9]{8}-[0-9]{1,8} e.g. 20150331-123
downloaded	boolean	1	Flag indicating whether the extract has already been downloaded
requestDate	DateTime	1	The date-time of the request.
comment	String(200)	0-1	The comment registered for the extract.

6.2 Usage

6.2.1 Tracking extracts of a given national number

When an extract cannot be directly generated, the municipality can follow up on its status using operation *trackExtract*, providing the national number of the person. The following request also specifies that all requests should be included in the response (flag *onlyReadyToDownload* is set to *false*) and that results should be grouped by pages of 20 items.

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:ser="http://be
   <soap:Header/>
   <soap:Body>
      <ser:trackExtractRequest>
         <ser:nationalNumber>83051512143</ser:nationalNumber>
         <ser:onlyReadyToDownload>false</ser:onlyReadyToDownload>
         <ser:municipality>
            <ser:NISCode>92094</ser:NISCode>
            <ser:requestorNationalNumber>83051512143</ser:requestorNationalNumber>
         </ser:municipality>
         <ser:parameters>
            <ser:resultsPerPage>20</ser:resultsPerPage>
         </ser:parameters>
      </ser:trackExtractRequest>
   </soap:Body>
</soap:Envelope>
```

Figure 18: Example of request using national number

The response will contain a list of *requestInformation* tags for all extracts found for this national number. The list can be empty if no extract was found. In the example below, one extract was found for the given national number and we can see it is ready to be downloaded because the status is *GENERATED*. The municipality can thus call operation *requestExtract* with the provided *uniqueId*. The response also contains paging information. In this case, the response contains the first page and only one result was found.

```
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:trackExtractResponse xmlns:ns2="http://be/fgov/just/cjr/extract/service-v1.0">
         <ns2:paging>
            <ns2:pageNumber>1</ns2:pageNumber>
            <ns2:totalPages>1</ns2:totalPages>
            <ns2:totalResults>1</ns2:totalResults>
         </ns2:paging>
         <ns2:requestInformation>
            <ns2:nationalNumber>83051512143</ns2:nationalNumber>
            <ns2:language>French</ns2:language>
            <ns2:type>595</ns2:type>
            <ns2:reference>a reference</ns2:reference>
            <ns2:status>GENERATED</ns2:status>
            <ns2:uniqueId>20141127-151762</ns2:uniqueId>
            <ns2:downloaded>false</ns2:downloaded>
         </ns2:requestInformation>
      </ns2:trackExtractResponse>
   </env:Body>
</env:Envelope>
```

Figure 19: Example of response for operation trackExtract for a national number

6.2.2 Tracking extracts filters on reference

It is possible to filter results based on the extract reference, as illustrated below.

```xml
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:ser="http://
   <soap:Header/>
   <soap:Body>
      <ser:trackExtractRequest>
         <ser:reference>reference</ser:reference>
         <ser:onlyReadyToDownload>false</ser:onlyReadyToDownload>
         <ser:municipality>
            <ser:NISCode>92094</ser:NISCode>
            <ser:requestorNationalNumber>83051512143</ser:requestorNationalNumber>
         </ser:municipality>
         <ser:parameters>
            <ser:resultsPerPage>20</ser:resultsPerPage>
         </ser:parameters>
      </ser:trackExtractRequest>
   </soap:Body>
</soap:Envelope>
```


Figure 20: Example of request filtering on reference

The response will contain all extracts matching the search criteria. The paging information tells us that page number 1 is displayed; there are a total of 4 pages and 63 results.


```xml
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:trackExtractResponse xmlns:ns2="http://be/fgov/just/cjr/extract/service-v1.0">
         <ns2:paging>
            <ns2:pageNumber>1</ns2:pageNumber>
            <ns2:totalPages>4</ns2:totalPages>
            <ns2:totalResults>63</ns2:totalResults>
         </ns2:paging>
         <ns2:requestInformation>
            <ns2:nationalNumber>75112431634</ns2:nationalNumber>
            <ns2:language>French</ns2:language>
            <ns2:type>595</ns2:type>
            <ns2:reference>no reference</ns2:reference>
            <ns2:status>IN_TREATMENT</ns2:status>
            <ns2:uniqueId>20141127-151762</ns2:uniqueId>
            <ns2:downloaded>false</ns2:downloaded>
         </ns2:requestInformation>
         <ns2:requestInformation>
            <ns2:nationalNumber>75100637226</ns2:nationalNumber>
            <ns2:language>French</ns2:language>
            <ns2:type>595</ns2:type>
            <ns2:reference>no reference</ns2:reference>
            <ns2:status>IN_TREATMENT</ns2:status>
            <ns2:uniqueId>20141127-157970</ns2:uniqueId>
            <ns2:downloaded>false</ns2:downloaded>
         </ns2:requestInformation>
```


Figure 21: Example of response for operation trackExtract filtered on reference

6.2.3 Tracking all extracts of the municipality

A municipality can also track all extracts generated by its employees by calling operation *trackExtract* specifying neither national number nor reference. Only the extracts requested by the employees of that municipality will be returned. In the following examples, all extracts of municipality Namur (NIS code 92094) will be returned. In the paging parameters, we ask for page number 3 and to sort the results on national number in descending order.

```xml
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:ser="http://b
   <soap:Header/>
   <soap:Body>
      <ser:trackExtractRequest>
         <ser:onlyReadyToDownload>true</ser:onlyReadyToDownload>
         <ser:municipality>
            <ser:NISCode>92094</ser:NISCode>
            <ser:requestorNationalNumber>83051512143</ser:requestorNationalNumber>
         </ser:municipality>
         <ser:parameters>
            <ser:resultsPerPage>20</ser:resultsPerPage>
            <ser:pageNumber>3</ser:pageNumber>
            <ser:sorting>
               <ser:column>NATIONAL_NUMBER</ser:column>
               <ser:order>DESCENDING</ser:order>
            </ser:sorting>
         </ser:parameters>
      </ser:trackExtractRequest>
   </soap:Body>
</soap:Envelope>
```


Figure 22: Example of request for all extracts of municipality Namur

In the response below, 84 extracts were found for the municipality of Namur, the third page of results is displayed and there are a total of 5 pages. The results are sorted on national number in descending order.


```xml
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
   <env:Header/>
   <env:Body>
      <ns2:trackExtractResponse xmlns:ns2="http://be/fgov/just/cjr/extract/service-v1.0">
         <ns2:paging>
            <ns2:pageNumber>3</ns2:pageNumber>
            <ns2:totalPages>5</ns2:totalPages>
            <ns2:totalResults>84</ns2:totalResults>
         </ns2:paging>
         <ns2:requestInformation>
            <ns2:nationalNumber>74092701714</ns2:nationalNumber>
            <ns2:language>French</ns2:language>
            <ns2:type>595</ns2:type>
            <ns2:reference>a reference</ns2:reference>
            <ns2:status>IN_TREATMENT</ns2:status>
            <ns2:uniqueId>20141127-157972</ns2:uniqueId>
            <ns2:downloaded>false</ns2:downloaded>
         </ns2:requestInformation>
         <ns2:requestInformation>
            <ns2:nationalNumber>75060133984</ns2:nationalNumber>
            <ns2:language>French</ns2:language>
            <ns2:type>595</ns2:type>
            <ns2:reference>another reference</ns2:reference>
            <ns2:status>IN_TREATMENT</ns2:status>
            <ns2:uniqueId>20141127-157975</ns2:uniqueId>
            <ns2:downloaded>false</ns2:downloaded>
         </ns2:requestInformation>
```


Figure 23: Example of response for operation trackExtract listing all requests of a municipality

7 "Request Criminal Record" service operation - OBSOLETE

Since 01/01/2018, the criminal register accepts requests for any valid national number. This service is obsolete. The response is always COMPLETE.

This service operation was used to:

- Request the status of a criminal record (COMPLETE, INCOMPLETE, etc.)

7.1 Definition

7.1.1 Request

Figure 24: Request part of operation requestCriminalRecord

Tag	Type	Mapping	Description
municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (same as in section 4.1.1.2)
nationalNumber	String(11)	1	National number of the person (without dashes, e.g. 84041411142).
options	options	0-1	Optional parameters

7.1.2 Response

Figure 25: Response part of operation requestCriminalRecord

The response is always "COMPLETE"

Tag	Type	Mapping	Description
criminalRecord	CriminalRecordType	0-1	The criminal record if any is present. Mutually exclusive with error.
error	ErrorType	0-N	Any error present in the request (c.f. Error codes). Mutually exclusive with criminalRecord.

7.1.2.1CriminalRecordType

Tag	Type	Mapping	Description
Status	String	1	An enumeration of values: COMPLETE: the criminal record is complete ~~INCOMPLETE: the criminal record is incomplete~~ ~~NO_RECORD: there is no criminal record for the requested national number.~~

7.2 Usage

The operation is self-explanatory.

8 "List Convictions" service operation - OBSOLETE

Since 01/01/2018, the criminal register accepts requests for any valid national number. No more criminal records are "INCOMPLETE". This service will not give any answer.

This service operation was used to:

- List all convictions of INCOMPLETE criminal records available for the municipality for a given time span (with a maximum of 7 days)
- List all convictions of an INCOMPLETE criminal record available for a given national number
- List all convictions of an INCOMPLETE criminal record available for a given national number for a given time span

8.1 Definition

8.1.1 Request

Figure 26: Request part of operation listConvictions

Tag	Type	Mapping	Description

municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (same as in section 4.1.1.2)
nationalNumber	String(11)	0-1	National number of the person (without dashes, e.g. 84041411142).
fromDate	Date	0-1	Date of the start for the search of convictions. Optional, but if "toDate" is present, it is mandatory.
toDate	Date	0-1	Date of the end for the search of convictions. Optional, but if "fromDate" is present, it is mandatory. Date must be lower than today (yesterday or in the past)
onlyNotDownloaded	Boolean	0-1	Default "false". If "true", only the convictions that were not already downloaded will be listed. This parameter is used only when "fromDate" and "toDate" are set.
parameters	RequestPagingType	0-1	Parameters for the paging (same as in section 6.1.1.1)
options	options	0-1	Optional parameters

<u>Note</u>: at least one parameter is mandatory: the nationalNumber or the duo fromDate-toDate must be present.

8.1.2 Response

Figure 27: Response part of operation listConvictions

Tag	Type	Mapping	Description
conviction	ConvictionType	0-N	The list of convictions matching the national number or the dates. Mutually exclusive with error.
error	ErrorType	0-N	Any error present in the request. Mutually exclusive with conviction.

8.1.2.1ConvictionType

Tag	Type	Mapping	Description
id	String	1	The identification string of the conviction to download. This exact value must be used in the downloadConvictionRequest.
nationalNumber	String(11)	1	National number of the person concerned by the criminal record (without dashes, e.g. 84041411142).
firstName	String	0-1	The first name of the person concerned by the criminal record, if known.
lastName	String	0-1	The last name of the person concerned by the criminal record, if known.
birthdate	PartialDateType	0-1	The birth date of the person concerned by the criminal record, if known.
introductionDate	Date	1	The date the conviction was introduced in the application.
downloaded	Boolean	1	An indicator that the conviction document was already downloaded.

9 "Download Conviction" service operation - OBSOLETE

Since 01/01/2018, the criminal register accepts requests for any valid national number. No more criminal records are "INCOMPLETE". This service will not give any answer.

This service operation is used to:

- Download the PDF document associated to a conviction of an INCOMPLETE criminal record

9.1 Definition

9.1.1 Request

Figure 28: Request part of operation downloadConviction

Tag	Type	Mapping	Description
municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (same as in section 4.1.1.2)
convictionId	String	1	The conviction identificator, as returned by the listConvictions. See "id" in section "List Convictions" service operation.
options	options	0-1	Optional parameters

9.1.2 Response

Figure 29: Response part of operation downloadConviction

Tag	Type	Mapping	Description
document	MTOM Attachment	0-1	The PDF document of the bulletin. Mutually exclusive with error.
error	ErrorType	0-N	Any error present in the request. Mutually exclusive with document.

10 "Request Notification" service operation

This service operation is used to:

- Request a notification when the requested extract becomes available

10.1 Definition

10.1.1 Request

Figure 30: Request part of operation requestNotification

Tag	Type	Mapping	Description
municipality	MunicipalityType	1	Information regarding the municipality requesting the extract (same as in section 4.1.1.2)
uniqueId	String	1	The extract request identificator, as returned by the requestExtract or trackExtract
email	String (1-254)	1-10	The email to send the notification to (regex format: "^.{1,64}@[^@]{1,253}$"; max length: 254 characters). Note: each instance of this field will be added to the existing list of email addresses previously registered.
options	options	0-1	Optional parameters

10.1.2 Response

Figure 31: Response part of operation requestNotification

Tag	Type	Mapping	Description
status	String	0-1	The status of the request. This means that the request is OK, no error was found. The value is either "OK" (no action to take) or "GENERATED" (the extract has been generated and is available for download).
error	ErrorType	0-N	Any error present in the request.

11 "List System Parameters" service operation

This service operation is used to:

- List the system parameters that are to be used for requests.

11.1 Definition

11.1.1 Request

Figure 32: Request part of operation listSystemParameters

Tag	Type	Mapping	Description
options	options	0-1	Optional parameters

11.1.2 Response

Figure 33: Response part of operation listSystemParameters

Tag	Type	Mapping	Description
systemParameters	SystemParameters	0-1 (choice with error)	See section Mutually exclusive with error
error	ErrorType	0-N (choice with systemParameters)	Any error present in the request. Mutually exclusive with systemParameters.

11.1.2.1 SystemParameters

SystemParameter is a complex type corresponding to a "dictionary". The entries are defined as each "item" element which each contains both a "key" element and a "value" element.

Each "key" will be unique. The length of the "key" is not enforced in the xsd, but it will never be more than 30.

Each "value" will contain any kind of text. The length of the "value" is not enforced in the xsd, but it will never be more than 150.

Every "item" will be independently described in this document in a later release. Each non-documented "item" can be ignored until a new release of this document explains the content.

Key	***Possible values***	***Description***
DL_CONVIC_START_DATE **OBSOLETE**	Any date with format "DD/MM/YYYY"	The earliest start date for which convictions will be returned. Any request before this date will be truncated to this date. See section 8.1.1.
DEFAULT_NB_EXTRACT	Any integer value between 0 (excluded) and MAX_NB_EXTRACT (included).	The default number of extracts returned when no pagination is requested. See section 5.1.1.
MAX_NB_EXTRACT	Any integer value strictly greater than 0.	The maximum number of extracts that will be allowed to be returned. Any number above this value will be set to this value. See section 5.1.1.
DEFAULT_NB_CONVIC **OBSOLETE**	Any integer value between 0 (excluded) and MAX_NB_CONVIC (included).	The default number of convictions returned when no pagination is requested. See section 8.1.1.
MAX_NB_CONVIC **OBSOLETE**	Any integer value strictly greater than 0.	The maximum number of convictions that will be allowed to be returned. Any number above this value will be set to this value. See section 8.1.1.

12 Error codes

Code	Description
UNKNOWN_NIS_CODE	The NIS code is unknown in CJCS
UNKNOWN_TYPE	The extract type is unknown in CJCS
INVALID_CITIZEN_NN	The national number of the citizen is invalid
INVALID_REQUESTOR_NN	The national number of the requestor (municipality employee) is invalid
UNAVAILABLE_EXTRACT	The extract cannot be delivered because it was not found based on the *uniqueId* or it is older than 7 days
UNEXPECTED_ERROR	An internal error occurred during the processing of the request
WS_MAINTENANCE_MODE	Indicates that the web service is in maintenance
CITIZEN_NOT_IN_MUNICIPALITY	The citizen whose national number was provided does not live in this municipality so no extract could be requested.
INVALID_END_DATE	The toDate provided in operation *listConvictions* is a date equal to today or in the future. It should be a date in the past.
NOT_YET_IMPLEMENTED	Indicates that an operation is not yet implemented and will be in a further release.
UNKNOWN_CITIZEN_NN	Indicates that the national number required was not found in the national register
UNAVAILABLE_NR	Indicates that the national register is temporary unavailable.
REPLACED_NN	Indicates that the national number required was replaced in the national register

13 Frequently asked questions

Q: What happens if I call operation *requestExtract* with an unknown *uniqueId* ?

A: An error code *UNAVAILABLE_EXTRACT* is returned.

Q: What happens if I call operation *requestExtract* with a *uniqueId* for a request that is in status *IN_TREATMENT* ?

A: The return code *IN_TREATMENT* is sent back.

Q: What happens if I call operation *requestExtract* with a national number for a person living in another municipality than the requestor ?

A: An error code CITIZEN_NOT_IN_ MUNICIPALITY is returned.

Q: What happens if I call operation *requestExtract* with a *uniqueId* for a request that was generated more than 7 days ago?

A: An error code *UNAVAILABLE_EXTRACT* is returned because the extract is expired after 7 days; a request for a new extract should be sent.

Q: What does the symbol on the left in the following screenshot mean?

A: It is an XML choice illustrated by the Altova XMLSpy software. In this example, either the *uniqueId* tag can be filled, or the sequence of 5 other tags. The tags for *motivation* and *reference* are optional (the boxes are dashed) while the others are mandatory (the boxes are solid).

Q: What happens if I call operation *trackExtract* with a *pageNumber* higher than the actual number of pages?

A: An error code *PAGE_NOT_FOUND* is returned.

Q: Can I use operation *trackExtract* and filter on a part of a reference?

A: Yes, using reference "*ref*" will return results containing "*ref*", e.g. : *"reference", "someref", "refsome".* Beware that the case matters.

Q: What happens if I call operation *trackExtract* and filter with a national number for a person living in another municipality than the requestor?

A: No results are returned, and no errors either.

Q: How should I use the paging in operation *trackExtract?*

A: When calling the operation for the first time, we don't know how many results will be returned so we fill the *pageNumber* tag with 1 or simply omit it. The response will contain the first page of results and inform us of how many pages and results were found. The operation can then be called again with the same search criteria (national number, reference and order) specifying the desired page in the *pageNumber* tag.

End of the document