

# Address History v2.00

Web Service and Operation  
Description and Service  
Message Description

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TABLE 1 DOCUMENT HISTORY

Version	When	Who	What
0.1	2022-07-19	Liesbet D'Hondt	Document setup

## Objective of this document

This document describes request and response messages and provides a detailed functional description.

In principle the messages are as well documented via annotations in the corresponding XSD file. The documentation in the XSD is limited to the business entities. Relationships between business entities are additionally described in this document.

The complete functional package contains: E-government context, Service Portfolio, Webservice & Operation, Service Message Content, Service Error Codes, Service Testplans and service management documents.

## Target group

This document is intended to be read by analysts and developers.

Reference documents
Error description document person services

# 1. Introduction

This document concerns the input and output messages of the AddressHistoryService from the Person Service family.

The person service family contains a set of basic services to retrieve actual information of a person or to search for a person by name or address. The person information returned by those basic person services are limited to actual information.

To retrieve historical or more detailed information particular services are offered.

The address history service gives the consumer an answer to the question 'where and when did a person reside in the past?', 'where and when did a person reside temporary abroad in the past?', 'where and when did a person permanently reside abroad in the past?' etcetera<sup>1</sup>.

The address history service returns a list of addresses, their validity period and the kind of address.

## 2. Service Description

Person details are registered in two authentic sources:

- The national registry for people subscribed to a Belgian municipality and for Belgian citizens residing abroad and subscribed to a Belgian embassy
- The bis registry of the Crossroads Bank of Social Security for people not subscribed to a Belgian municipality or embassy but having a relationship to a Belgian governmental organisation.
- The rad registry of the CBSS for people scratched from the national registry.

The table below list the kind of address available. The information in the registries of the CBSS is currently limited to the current residence address; no historical information is available. For scratched persons the address history is available in the national registry.

Address type	Description
Main Residence	The address the person stays and is officially registered. The address can be local (in Belgium) or abroad.

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<sup>1</sup> A complete list of kind of addresses is defined in next paragraph.

Declared Address	An address a person declares to move to. The address can be local or abroad. A local declared address is available if the person is in the event of moving house (no history kept).
Legal Address	Used in rare cases for example if a child do not resides with the parents but lives in with the grant parents.
Temporary Address	The address where a citizen resides temporary abroad.

## 3. getAddressHistory

### 3.1. Request and response messages

The getAddressHistory operation returns a list of address the person has stayed in the past or is staying currently, the kind of address and their validity period.

For people subscribed to a Belgian municipality or embassy the current address will be included in the address history list. The current address has an open validity period (no valid until date).

The address list will be sorted by the start date of validity period ascending (current situation first).

#### Usage precondition:

The assumption is made an active person number is used. The consumer should apply a search or get person operation to have actual person details.

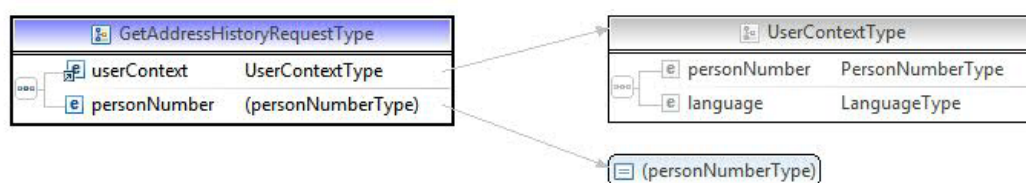
## 3.2. getAddressHistory(PERSONNUMBER)

### 3.2.1. Request message

The consumer has the basic person details information of the person to his disposal. The consumer requires the address history of the person.

The request message contains a person service family generic user context element and an operation specific input parameter element.

The operation specific input parameter element is described below in an operation specific paragraph.



#### Input:

Input parameter	M/O	Type	Description	Precondition
Person number	M	11 digits	The person number of the person	The consumer executes a check digit before sending the request <sup>2</sup> .

M/O: Mandatory/Optional

<sup>2</sup> Check rules are :

When born before January 1° 2000 XXXXXX YYY ZZ where  $97 - \text{mod}(\text{XXXXXXXXYY}, 97) = \text{ZZ}$ ; when born after December 31° 1999: XXXXXX YYY ZZ where  $97 - \text{mod}(2\text{XXXXXXXXYY}, 97) = \text{ZZ}$ .

**Description:**

The operation validates authentication, authorization and schema.

If valid the operation returns the address history of a person. The address history list contains a list of addresses, their validity period and the kind of address. The list is sorted per start date of the validity period.

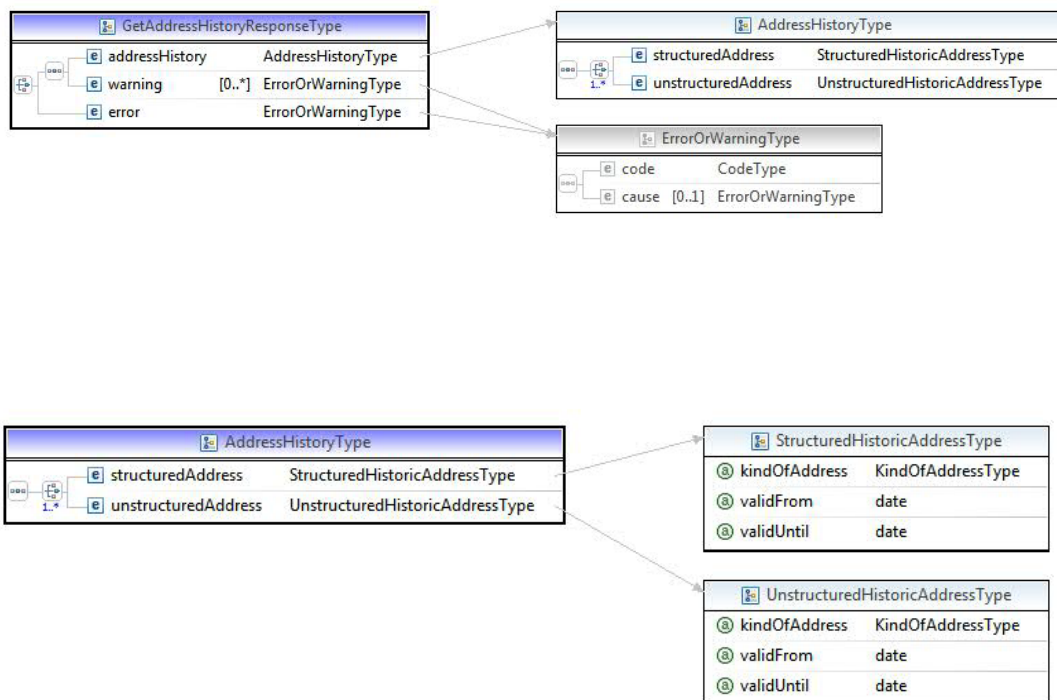
In case the person number is a bis number a business error is given.

### 3.2.2. Response message

The response message might contain business errors or warnings. The error and warning elements are described in the person service error description document.

The returned response contains a list of addresses. Per address the kind of address and validity period is given. An address is given in the format of a structured or unstructured address.

The address list is sorted ascending, current address first.



Per address a validity period and the kind of address are given. The kind of address corresponds to the table below.

The valid until date is not completed for the current address. The current address is available if the person currently is subscribed to a Belgian municipality or embassy (not scratched).

Kind of address	Description
Main Residence <sup>3</sup>	The address the person stays and is officially registered. The address can be local (in Belgium) or abroad.
Declared Address	An address a person declares to move to. The address can be local or abroad. A local declared address is available if the person is in the event of moving house (no history kept).
Legal Address	Used in rare cases for example if a child do not resides with the parents but lives in with the grant parents.

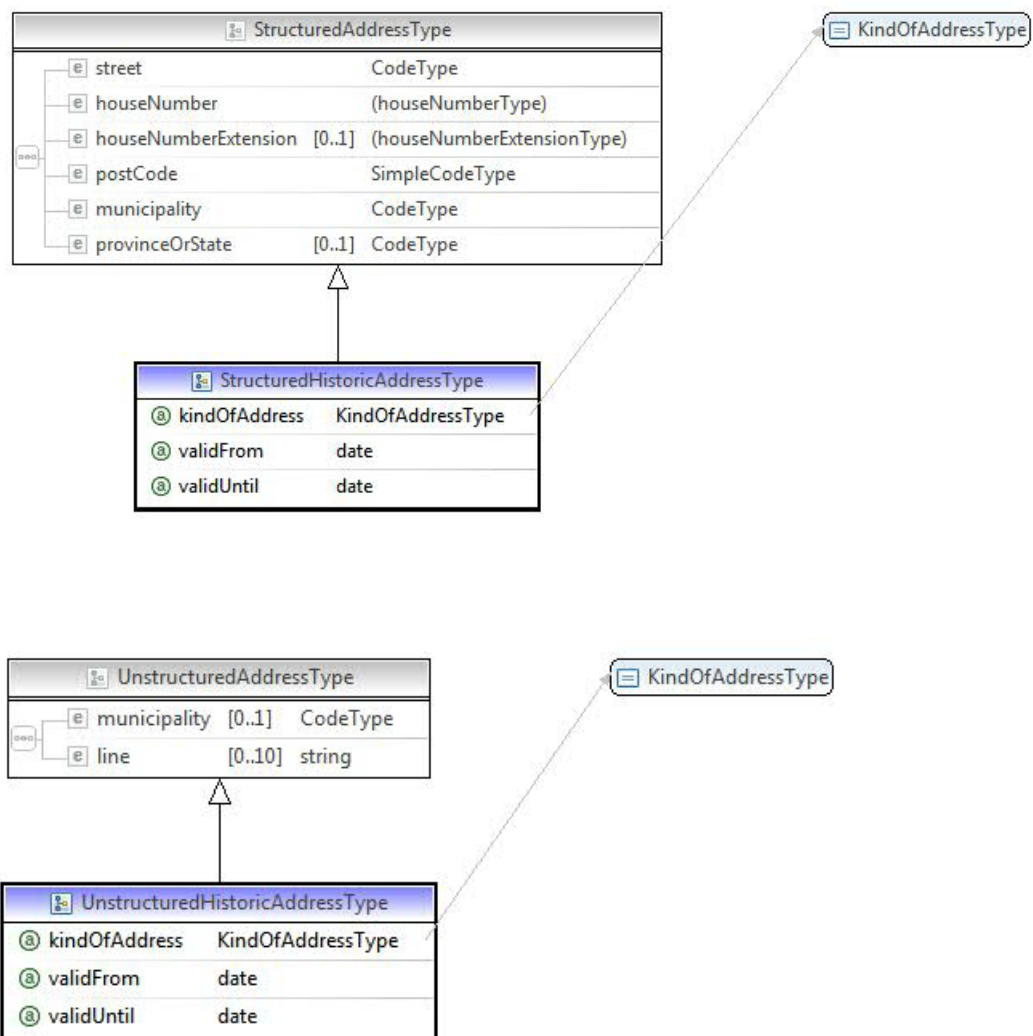
<sup>3</sup> A local main address can have the reference address flag set. In that case the person stays abroad. Official mail arriving at a reference address will be forwarded to the person staying abroad.



Temporary Address	The address where a citizen resides temporary abroad.
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The address list is sorted per validFrom date, from most recent to oldest address.

A structured address has proper fields for postal code, housenumber, street etcetera. An unstructured address contains address lines.



The standard FSB error codes<sup>4</sup> are applicable for authentication, authorization and schema validation errors. Those error codes are described in the person service error description document.

For the address history service proper business and warning codes are fore seen for the following cases:

Type	code	Description	Remark
<b>Business error</b>			In case the request is made for a person identified by a bis number no address history is available
<b>Business warning</b>	5573	Current Address is non-communicable	In case the address is not communicable a warning will be given per non-communicable period

## Standard scenario national identification number (not scratched)

The person number is a (correct) national identification number; the person is not scratched.

The response contains a list of historical addresses, including the current address.

## Bis-number

The person number is a (correct) bis number. In this case no address history is available. The service returns the current address.

The response contains a business error no address history is available for a person identified by a bis number.

## Scratched person

The person number is a (correct) national identification number; the person is scratched.

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<sup>4</sup> Some particular person service errors might be thrown as soap fault during the start-up phase due to configuration issues.

The response contains a list of historical addresses. The current address is not included.

### Non communicable address

The person number is a (correct) national identification number; the person is not scratched. The person had a non-communicable address in the past.

The response contains a list of historical addresses. The address list is extended with a warning per non-communicable address period.

## 4. Basic service information

### 4.1. Service access parameters

Table 1 Service access parameters get address history information

Endpoint URL (Test & Acceptance)	<a href="https://fsb.services.int.belgium.be/PersonServices/AddressHistoryService/2.0/CPS AddressHistoryService">https://fsb.services.int.belgium.be/PersonServices/AddressHistoryService/2.0/CPS AddressHistoryService</a>
Endpoint URL (Production)	<a href="https://fsb.services.pr.belgium.be/PersonServices/AddressHistoryService/2.0/CPS AddressHistoryService">https://fsb.services.pr.belgium.be/PersonServices/AddressHistoryService/2.0/CPS AddressHistoryService</a>
Message exchange pattern(s)	Synchronous
Message protocol	SOAP
Transport-level security	1-way SSL with digital certificate
Message-level security	WS-Security X.509 certificate token for Timestamp signing and message body signing , responses are also signed