

CPR BROKER

Method description

MAGENTA_{AS}

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1 OVERALL DESCRIPTION

All CPR broker web service calls return an object that contains two parts. The first part is an element of type `StandardReturType`. The second object will contain the actual returned value of the operation (in case of success) or null (in case of failure).

1.1 *StandardReturType*

This object contains human readable information about the status of the returned result. It is defined like this:

```
public partial class StandardReturType
{
    public string StatusKode;
    public string FejlbeskedTekst;
}
```

The `StatusKode` element will contain a string with a numeric code. The codes have been derived from standard HTTP status codes.

The `FejlbeskedTekst` element will contain extra information, basically about the source of the error.

2 RETURN CODES

This section describes the various return codes and text. These will be contained in the StandardReturType part of any method response.

Any text surrounded with <> will be replaced with an actual value at runtime. For example : <name> can actually be 1234

2.1 200 (OK)

FejlbeskedTekst	Comment
OK	The operation has succeeded without problems.

2.2 206 (partial success)

FejlbeskedTekst	Comment
Partial success. Failed = <Error reason 1>: <uuid1,uuid1,...>;<Error reason 2> : <uuid3,uuid4,...>	The operation has succeeded only partially. This applies only to List operation at the moment. Possible error reasons are "Unknown UUID" and "Data provider failed".

2.3 400 (Bad request)

FejlbeskedTekst	Comment
Input cannot be null	The main input element was null.
Input cannot be null:<elementName>	The element <elementName> was null
Unknown: <objectName>	Typically used when a channel type passed to Subscribe or SubscribeOnBirthdate is unknown.
	The type specified for a data provider (in SetDataProviders) is unknown
Unknown AppToken: <token>	When the target app token passed to UnRegisterApp or ApproveAppRegistration is unknown
Value "<value>" is out of valid range	Value out of range. Used only in internal methods used for communication with event broker(GetPersonBirthdates and DequeueDataChangeEvents)
Value "<value>" for "<paramName>" is out of valid range	Used in Search method validation of parameters MaksimalAntalKvantitet and FoersteResultatReference
Invalid application token: <token>	The application token passed in the ApplicationHeader is invalid
<uuid1,uuid2,uuid3,...>	Malformed UUIDs passed to List.
Invalid UUID: <uuid>	Malformed UUID passed to Read, RefreshRead or Search
Invalid CPR number: <cprNumber>	Malformed CPR number passed to GetUuid
Invalid <name>: <value>	Invalid value specified for element <name>. Used with

FejlbeskedTekst	Comment
	MaksimalAntalKvantitet and FoersteResultatReference in Search
Malformed XML	The input XML is not well formed
<exceptionMessage>	The input XML was unreadable
ApplicationName '<appName>' already exists	Attempted to call RequestAppRegistration with a name that already exists.
Unreachable channel	The channel passed to Subscribe or SubscribeOnBirthdate could not be reached

2.4 500 (Unspecified)

FejlbeskedTekst	Comment
UNSPECIFIED	Unexpected exception occurred in the overall logic
Validation failed	Unexpected exception occurred while validating the result
Aggregation failed	Unexpected exception occurred while aggregating the final result of the operation from its sub components

2.5 503 (data source unavailable)

FejlbeskedTekst	Comment
DATASOURCE_UNAVAILABLE	No suitable data providers were found to implement the request
	All available data providers have failed to implement the request
	For List operation: All input UUIDs were either unmapped to Cpr numbers or no data found for all of them

2.6 501 (Not implemented)

FejlbeskedTekst	Comment
<name>	The named object is not implemented. Typically means that calling Search() for the field named <name> is not implemented

2.7 404 (Not found)

FejlbeskedTekst	Comment
NotificationChannel unreachable	The notification channel given to create a subscription (using Subscribe or SubscribeOnBirthdate) was unreachable

3 PART SERVICE

Allows access to CPR data through a standard PART interface. Methods of this service are executed via local data provider whenever possible (except RefreshRead). Otherwise, an external data provider is used to implement the request.

3.1 Read

Finds and returns a single person object. It will return the latest registration within the specified range. It first looks in the local database, and attempts external data providers if no data is found locally.

3.1.1 Signature

LaesOutputType RefreshRead(LaesInputType input)

3.1.2 Parameters

Parameter	Description
Input	Contains the person UUID and (optionally) requested registration & effect date ranges.

3.1.3 Return value components

Name	Description
LaesResultat	If succeeded, its Item property will be a Registrering object with the found person registration. If failed, contains null.

3.1.4 Review

Date	Description
2011-03-06	CPR Broker PART release

3.2 RefreshRead

This method is the same as Read, except that it does not look in the broker's local database to load the data. Instead, it queries external data providers directly for the data.

3.3 List

Finds and returns several person objects that match the ID List supplied. Just like Read, every person is first attempted locally, and if not found, an external data provider is attempted.

3.3.1 Signature

ListOutputType1 List(ListInputType input)

3.3.2 Parameters

Parameter	Description
Input	Contains the UUIDs of the person objects to be retrieved.

3.3.3 Return value components

Name	Description
LaesResultat	Array of Read operation results. In case of full or partial success, each element at index i in the array corresponds to the UUID at index i in the input array. Contains null in case of failure.

3.3.4 Review

Date	Description
2011-03-06	CPR Broker PART release
2011-11-29	Allowed partial success.

3.4 Search

Searches the local database for matching persons. The current implementation can only search by UUID, CPR number, first name, middle name or last name. Search is performed for whole words only..

3.4.1 Signature

SoegOutputType Search(SoegInputType1 searchCriteria)

3.4.2 Parameters

Parameter	Description
searchCriteria	The search criteria.

3.4.3 Return value components

Name	Description
LaesResultat	List of UUID's of the found persons. You can then call Read or List to get detailed data.

3.4.4 Review

Date	Description
2011-03-06	CPR Broker PART release

3.5 *GetUuid*

Gets the person's UUID from his CPR number. If no mapping is found locally, it calls the UUID assignment authority (PersonMaster service).

3.5.1 Signature

GetUuidOutputType GetUuid(string cprNumber)

3.5.2 Parameters

Parameter	Description
cprNumber	CPR number of person needed.

3.5.3 Return value components

Name	Description
UUID	The person's UUID.

3.5.4 Review

Date	Description
2011-03-06	CPR Broker PART release