

# CPR BROKER

## *Release notes*

**MAGENTA**<sup>aps</sup>

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# INTRODUCTION

This document lists all the versions of CPR Broker that are released after the first release.

## 1 VERSION 1.0.1

This version is a minor enhancement for DPR data provider and data providers' configuration page.

The implementation is as follows

- Extra logging at key points in DPR to show decisions about using DPR diversion or skipping it.
- A new configuration property : DisableDiversion has been added to DPR data provider. The new property disables usage of DPR diversion (viderestilling) and thus using only the local DPR database records.
- The data providers configuration page now shows Boolean data provider properties as check boxed.

## 2VERSION 1.1.0

This version contains some changes to the core engine, affecting List operation, and also some bug fixes in engine and DPR.

### 2.1Interface changes

The interface now defines a new status code, 206. This code means that the interface method succeeded only partially. This status code can now only be returned from List operation, if not all requested person UUIDs have succeeded, but at least one UUID was read successfully.

In clear text, List operation will return status codes as follows

- 200 (OK) if all the UUIDs were found and successfully read.
- 206 (PARTIAL\_SUCCESS) if all UUIDs were mapped to CPR numbers, at least one person was retrieved and at least one person UUID not retrieved. The status text field will contain more details (including the UUIDs).
- 400 (BAD\_CLIENT\_REQUEST) if  
The application token is invalid, or  
Input validation fails for a well known reason, such as an invalid/unknown UUID.
- 500 (UNSPECIFIED) if  
Input validation fails for an unknown reason  
An exception has occurred and cannot be handled
- 503 (DATASOURCE\_UNAVAILABLE) if  
There are no internal or external data providers defined in the system that can process the request, or  
All the UUIDs did not match any known person data  
The above description applies to all other interface methods, except for the parts that are specific to List()

### 2.2Changed Dlls

#### 2.2.1CprBroker.Engine

- Sub methods can now be greater than maximum wait handles supported by the

system. This affects the List method at the moment.

- The ability for methods to partially success, implemented through the enumeration `AggregationFailOption`. This only affects `List()` at the moment.

### **2.2.2CprBroker.Schemas**

- New return code : 206 (`PARTIAL_SUCCESS`)
- Code refactoring and some new construction methods

### **2.2.3CprBroker.Providers.DPR**

- Bug fix for conversion from decimal to date where month or day is zero. A zero is converted to one, which assumes that a zero month means beginning of the year (January)

## 3VERSION 1.1.1

The List operation no longer completely fails if one or more UUID is not mapped to a CPR number. Instead, this case is treated in a similar way as if there is no data provider that has data for the CPR number, although the error message is different.

In clear text, List operation will return status codes as follows

- 200 (OK) if all the UUIDs were found and successfully read
- 206 (PARTIAL\_SUCCESS) if at least one person was retrieved and at least one person UUID not mapped to a CPR number or whose data could not be retrieved. The status text field will contain more details (including the UUIDs). The error message would be like this :

Partial success. Failed = Unknown UUID : <uuid1,uuid1,...>;Data provider failed : <uuid3,uuid4,...>

- 400 (BAD\_CLIENT\_REQUEST) if
  - o The application token is invalid, or
  - o Input validation fails for a well known reason, such as an invalid UUID.
- 500 (UNSPECIFIED) if
  - o Input validation fails for an unknown reason
  - o An exception has occurred and cannot be handled
- 503 (DATASOURCE\_UNAVAILABLE) if
  - o There are no internal or external data providers defined in the system that can process the request, or
  - o All the UUIDs did not match any known CPR number or person data

The above description applies to all other interface methods, except for the parts that are specific to List()

### 3.1Changed Dlls

#### 3.1.1CprBroker.Engine

- UUID mapping to CPR numbers is now part of the actual read operation logic rather than input validation.
- New method SubMethodInfo. PossibleErrorReason().

### **3.1.2CprBroker.Schemas**

- Handling of different failure reasons in partial success.
- New method : `TilstandVirkningType.ToVirkningType()`
- Bug fix for calculation of effect dates for a person registration whole effect (`RegistreringType1.Virkning`). The new calculation takes into account all `TilstandVirkningType` objects in the `RegistreringType1` object.
- `ToLifeStatus()` now throws an exception if the given status is invalid. This is determined through the new method `IsValidCivilRegistrationStatus()` which relies on a new enumeration: `PersonCivilRegistrationStatusCode`.
- New method : `UnikIdType.Clone()`

### **3.1.3CprBroker.Utilities**

- New method: `Utilities.Dates.DateRangeIncludes()`



## 4 VERSION 1.1.2

This version includes 2 main changes, the implementation of the E&M database as a data provider and a newer version of the installer itself.

### ***4.1 E&M Database implementation***

This implementation has started some time ago, but only included since this version. This implementation has been done in the file "CprBroker.Providers.E\_M.dll".

The implementation made use of extensive unit testing for almost every single method, covering almost all the possible test cases.

### ***4.2 New installer version***

#### **4.2.1 Custom actions**

The number of custom actions has been significantly reduced. Database operations are performed in 1 action per operation type. The same applies for web custom actions.

#### **4.2.2 Silent installations**

It is possible now to deploy CPR Broker without having user interface at all (and all other UI levels in windows installer).

#### **4.2.3 Easier upgrades**

It is now possible to upgrade an existing installation by simply running the installer of the new version. This is easier than the previous use of patches.

## 5 VERSION 1.2

The main purpose of this release is to introduce the ability of DPR data providers to be configured so that they always return CprBorgerType for all people regardless for their nationality. A new property called AlwaysReturnCprBorgerType was added. Default value is false, thus allowing existing installations to behave as they already do.

### 5.1 DPR

- Unit tests for most of DPR code.
- Code refactoring of DPR code, isolated many of the object creation code into separate methods.
- Church membership indicator returns true only if the DPR is 'F'.
- Mother/Father CPR number retrieval no longer depends on mother/father marker.
- It is now possible to configure DPR data providers to always return CprBorgerType for citizens of all nationalities. This means that all returned people will have an address.
- The system can now detect 'separated' persons and differentiate them from married/registered partners.

### 5.2 Website

- Faster counting of number of rows in LogEntry table, based on table statistics.

### 5.3 Engine

- Faster data provider allocation based on IEnumerable rather than List.
- Bug fix for the case where there are zero sub methods.
- Loading data providers from database is done only once per façade.
- Bug fix for reading of new data provider properties that were never set before.
- Bug fix: related persons throw an exception if could not be mapped to UUID's

### 5.4 Installer enhancements

- Bug fix for the case when database name contains an ampersand (&).
- Referenced libraries organization.

- The installer now calls msizap.exe to force windows installer to forget previous versions of CPR broker (on a successful install).
- The installer now requires (and checks for) elevated privileges.
- The installer does not allow installation as virtual directory if there are no existing websites on the target machine.
- Progress text for most custom actions.
- Increased time out for the command that checks if the database login should be dropped during uninstall.

## 6VERSION 1.3

The main change in this version is the beta version of CPR Direct data providers

### **6.1CPR Direct**

This version has a beta version of CPR direct. It comes in 2 data providers. Both use the 12170 format

#### **6.1.1Extract Data provider**

This is the main source used. It tracks a specified folder that receives daily change extracts from CPR office. The files are parsed and inserted in CPR broker's database to be later queried by CPR broker. The storage is made through Event Broker and is in both native and PART formats.

#### **6.1.2Client data provider**

This source uses TCP/IP to communicate with CPR Direct Client service and get the data through TCP/IP. Data is then stored similarly to Extract Data provider.

### **6.2Engine**

This version includes implementation of SourceObjectXml. This feature allows data providers to specify a certain XML string that represents the data it has read from the data provider in the provider's native format. This is useful when reading data from expensive sources (KMD). If we later find a bug in the conversion to the PART format, there is no need to re-read from KMD to generate PART objects again.

## 7VERSION 1.3.1

This version has a small but important bug fix. There was a bug that prevented List operation from getting a person's external data if more than one UUID is passed and the requested person has at least one relationship.

**MAGENTA<sup>aps</sup>**

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**MAGENTA<sup>aps</sup>**

**adresse**

Stuðiestræde 14, 1.  
1455 Københavk K

**email**

info@magenta-aps.dk

**telefon**

(+45) 33 36 96 96