

**Interface Specification**

FBS-14789

**FBS Serviceplattformen specification**

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## 1 Introduction

This document describes how FBS interacts with Serviceplatformen.

The target group for this document is Serviceplatformen, persons involved in the configuration of FBS and third party systems that would like to understand the technical details of how FBS interacts with the Serviceplatformen.

### 1.1 References

| Reference           | Title                                  | Link  |
|---------------------|--|---|
| [CPR]               | CPR Service Documentation              | <a href="https://www.serviceplatformen.dk/administration/contract-doc/contracts/ServiceContract-8ee213c7-25a9-11e2-8770-d4bed98c63db.zip">https://www.serviceplatformen.dk/administration/contract-doc/contracts/ServiceContract-8ee213c7-25a9-11e2-8770-d4bed98c63db.zip</a>   |
| [CPRSUBSCRIPTION]   | CPR Subscription Service Documentation | <a href="https://www.serviceplatformen.dk/administration/contract-doc/contracts/ServiceContract-9cdccc2f-3243-11e2-8fef-d4bed98c5934.zip">https://www.serviceplatformen.dk/administration/contract-doc/contracts/ServiceContract-9cdccc2f-3243-11e2-8fef-d4bed98c5934.zip</a>   |
| [CPR-LOANER-UPDATE] | CPR Loaner Update documentation        | <a href="https://www.kombit.dk/sites/default/files/user_upload/documents/Serviceplatform/Hjemmesidematerialer/NOT0203%20Vejledning%20til%20leverand%C3%B8rer%20ifm%20%20CPR%20abonnement_vers.1.1.pdf">https://www.kombit.dk/sites/default/files/user_upload/documents/Serviceplatform/Hjemmesidematerialer/NOT0203%20Vejledning%20til%20leverand%C3%B8rer%20ifm%20%20CPR%20abonnement_vers.1.1.pdf</a> |
| [OIR]               | OIR Service Documentation              | <a href="https://digitaliseringskataloget.dk/integration/sf1590b01">https://digitaliseringskataloget.dk/integration/sf1590b01</a>   |
| [Classification]    | Classification service                 | <a href="https://digitaliseringskataloget.dk/integration/sf1510">https://digitaliseringskataloget.dk/integration/sf1510</a>   |
| [OIOUBL-RECEIVE]    | InvoiceHandlingReceive Documentation   | Available by contacting Serviceplatformen.dk or Systematic.   |
| [OIOUBL-DELIVER]    | InvoiceHandlingDeliver Documentation   | Available by contacting Serviceplatformen.dk or Systematic.   |
| [SDD0003]           | Cicero LMS - Solution Architecture     | Available by contacting Systematic.   |

|                       |  |   |
|-----------------------|--|---|
| [Message Distributor] | Receive push message from Message Distributor      | <a href="https://digitaliseringskataloget.dk/integration/sf1460a">https://digitaliseringskataloget.dk/integration/sf1460a</a> |
| [IFS0021]             | FBS Statistics data for DDB and Danmarks Statistik | Available by contacting Systematic.   |

## 2 Supported services

FBS supports integration with the following services from Serviceplatformen:

| Service  | Description   |
|--|---|
| CPR Service (SF6004)   | This service provides information about a loaner from CPR e.g. name and address.  |
| CPR Subscription Service (SF6002)  | This service is used to subscribe to changes to the information about a loaner in CPR.  |
| CPR Loaner Update (SF1320_A)   | An SFTP server where updated on subscribed loaners are placed once a day.   |
| OIR Service (SF1590_B)   | This service is used to transfer balances via Serviceplatformen to a third party debtor system.   |
| OIOUBL Service - <a href="https://prod.serviceplatformen.dk/service/InvoiceHandling/InvoiceHandling/1">https://prod.serviceplatformen.dk/service/InvoiceHandling/InvoiceHandling/1</a> | This service is used to receive invoices from a third party economy system via Serviceplatformen and to send a receipt for the invoice to the third party economy system via Serviceplatformen. |
| SFTP (SF1820) - Reports to Danmarks Statistik  | Serviceplatformens SFTP is used for distributing the annual reports the libraries deliver to Danmarks Statistik   |

|  |  |
|--|--|
| SFTP (SF1820) - Statistics data for DDB and Danmarks Statistik | Serviceplatformens SFTP is used for sharing FBS' statistics data to DDB and Danmarks Statistik for processing.               |
| Message Distributor (SF1460_A)                                 | This service is used to delete debtor accounts by receiving messages via Serviceplatformen from a third party debtor system. |

### 3 FBS Interfaces

This section describes how FBS integrates with the supported services

#### 3.1 Authentication

All services exposed by Serviceplatformen are implemented with two-way SSL authentication. Certificates are provided by Serviceplatformen. In addition, all requests to Serviceplatformen include an InvocationContext identifying the agency on whose behalf FBS is making the request by way of a Service agreement. The Service agreement is created by the agency and configured in FBS.

An InvocationContext is defined by the following XSD:

- InvocationContext\_20121009.xsd

The XSD is provided by Serviceplatformen and available from [CPR], [CPRSUBSCRIPTION], [OIR], [OIOUBL-RECEIVE] or [OIOUBL-DELIVER].

#### 3.2 CPR Service (SF6004)

The CPR service is called to get updated information about a loaner when requested by a user in FBS and after subscribing a loaner to CPR updates using the CPR subscription service.

##### 3.2.1 Standards

FBS implements the following WSDL:

- CprService.wsdl

The client invokes the *callCPRBasicInformationService* operation defined in the WSDL. The request type is defined in the following XSD:

- CPRBasicInformationServiceMsg.xsd

The WSDL and XSD are provided by Serviceplatformen and available in [CPR].

### 3.2.2 Parameters

The following parameters are used when sending a request:

| Element name | FBS implementation     |
|--------------|------------------------|
| PNR          | CPR number of a loaner |

### 3.2.3 Error handling

Error handling strategy "User/system expects result of invocation of data from external system" described in [SDD0003] applies.

## 3.3 CPR Subscription Service (SF6002)

The CPR Subscription service is called by a scheduled job which subscribes all non-subscribed loaners if CPR integration is enabled or unsubscribes all subscribed loaners if the integration is disabled.

### 3.3.1 Standards

FBS implements the following WSDL:

- CprSubscriptionService.wsdl

To subscribe a loaner the client invokes the *AddPNRSubscription* operation defined in the WSDL. To unsubscribe the client invokes the *RemovePNRSubscription* operation. Both request types are defined in:

- CprSubscriptionServiceMsg.xsd

The WSDL and XSD are provided by Serviceplatformen and available in [CPRSUBSCRIPTION].



### 3.3.2 Parameters

The following parameters are used when sending either of the two request types:

| Element name | FBS implementation     |
|--------------|------------------------|
| PNR          | CPR number of a loaner |

### 3.3.3 Error handling

Error handling strategy "Scheduled import of data from external system" described in [SDD0003] applies.

## 3.4 CPR loaner update (SF1320\_A)

Serviceplatformen uploads a delta file containing updates on subscribed loaners to an SFTP server once a day. A scheduled job downloads the files and updates the loaners in the System.

### 3.4.1 Standards

<https://www.cpr.dk/kunder/offentlige-myndigheder/udtraek/>

### 3.4.2 Error handling

Error handling strategy "Scheduled import of data from external system" described in [SDD0003] applies.

## 3.5 OIOUBL (Invoice) Receive Invoice

FBS exposes an interface which Serviceplatformen can use to provide invoices from third party economy systems to FBS.

### 3.5.1 Standards

FBS exposes a web service implementing the following WSDL:

- InvoiceHandlingReceiveInvoice.wsdl

The WSDL defines just one operation, *receiveInvoice*. Upon receiving a request FBS will parse and persist the received invoice and send a response. The request and response types are defined in the following XSD:

- InvoiceHandlingTypes.xsd

The WSDL and XSD are provided by Serviceplatformen and available in [OIOUBL-RECEIVE].

### 3.5.2 Parameters

The following are read when receiving a request:

| Element name   | FBS implementation  |
|----------------|---|
| SPIInvoiceUUID | Unique identifier of an invoice. Saved for use in the OIOUBL-Deliver client.      |
| Invoice        | OIOUBL Invoice used to generate invoice in FBS and saved for presentation usages. |

### 3.6 OIOUBL (Invoice) Deliver Receipt

<https://prod.serviceplatformen.dk/service/InvoiceHandling/InvoiceHandling/1>

The OIOUBL-Deliver Service client is used to send a receipt for an invoice to a third party economy system. The receipt can either accept or reject the invoice.

#### 3.6.1 Standards

FBS implements the following WSDL:

- InvoiceHandlingDeliverReceipt.wsdl

The WSDL defines just one operation, *deliverReceipt*. The request type is defined in the following XSD:

- InvoiceHandlingTypes.xsd

The WSDL and XSD are provided by Serviceplatformen and available in [OIOUBL-RECEIVE].

**3.6.2 Parameters**

The following parameters are used when sending a request:

| <b>Element name</b>  | <b>FBS implementation</b>   |
|--|---|
| SPIInvoiceUUID   | UUID saved when receiving invoice from Serviceplatformen.                                     |
| ApplicationResponse.ID   | Randomly generated UUID   |
| ApplicationResponse.IssueDate  | Invoice.IssueDate from received OIOUBL invoice  |
| ApplicationResponse.ResponseDate                                     | Current date  |
| ApplicationResponse.VersionID  | "2.0"   |
| ApplicationResponse.CustomizationID                                  | "OIOUBL-2.01"   |
| ApplicationResponse.ProfileID  | "Procurement-BilSim-1.0"  |
| ApplicationResponse.ProfileID.SchemeID                               | "urn:oioubl:id:profileid-1.1"   |
| ApplicationResponse.ProfileID.SchemeAgencyID                         | "320"   |
| ApplicationResponse.SenderParty                                      | Invoice.AccountingCustomerParty from received OIOUBL invoice with username of FBS user added. |
| ApplicationResponse.ReceiverParty                                    | Invoice.AccountingSupplierParty from received OIOUBL invoice.                                 |
| ApplicationResponse.DocumentResponse.DocumentReference.ID            | Invoice.ID from received OIOUBL invoice   |
| ApplicationResponse.DocumentResponse.DocumentReference.CopyIndicator | Invoice.CopyIndicator from received OIOUBL invoice  |
| ApplicationResponse.DocumentResponse.DocumentReference.UUID          | Invoice.UUID from received OIOUBL invoice   |

| <b>Element name</b>  | <b>FBS implementation</b>  |
|--|--|
| ApplicationResponse.DocumentResponse.DocumentReference.IssueDate                     | Invoice.Issuedate from received OIOUBL invoice   |
| ApplicationResponse.DocumentResponse.DocumentReference.DocumentTypeCode              | "Invoice"  |
| ApplicationResponse.DocumentResponse.DocumentReference.DocumentTypeCode.ListAgencyId | "320"  |
| ApplicationResponse.DocumentResponse.DocumentReference.DocumentTypeCode.ListId       | "urn:oioubl:codelist:responsedocumenttypecode-1.1"   |
| ApplicationResponse.DocumentResponse.Response.ReferenceID                            | "1"  |
| ApplicationResponse.DocumentResponse.Response.ResponseCode                           | "BusinessAccept", "BusinessReject" or "TechnicalReject". TechnicalReject is used when receiving an invoice which cannot be parsed.   |
| ApplicationResponse.DocumentResponse.Response.ResponseCode.ListAgencyID              | "320"  |
| ApplicationResponse.DocumentResponse.Response.ResponseCode.ListID                    | "urn:oioubl:codelist:responsecode-1.1"   |
| ApplicationResponse.DocumentResponse.Response.Description                            | "Invoice accepted", "Invoice rejected" or error message from parsing the received OIOUBL invoice.  |
| ApplicationResponse.DocumentResponse.LineResponse                                    | <i>Can contain zero or more LineResponses. One for each InvoiceLine and AllowanceCharge with ChargeIndicator=true in received OIOUBL invoice. Only added when Response.ReponseCode is set to 'BusinessAccept'.</i> |
| ApplicationResponse.DocumentResponse.LineResponse.LineReference.LineID               | InvoiceLine.ID of received OIOUBL invoice.   |
| ApplicationResponse.DocumentResponse.LineResponse.Response.Description               | Account information matching an account, in the third party economy system, from which the invoice will be paid.   |

| Element name   | FBS implementation                            |
|--|---|
| ApplicationResponse.DocumentResponse.LineResponse.Response.ResponseCode              | "BusinessAccept"                              |
| ApplicationResponse.DocumentResponse.LineResponse.Response.ResponseCode.ListAgencyID | "320"   |
| ApplicationResponse.DocumentResponse.LineResponse.Response.ResponseCode.ListID       | <i>"urn:oioubl:codelist:responsecode-1.1"</i> |
| ApplicationResponse.DocumentResponse.LineResponse.Response.ReferenceID               | InvoiceLine.ID of received OIOUBL invoice     |

**3.6.3 Error handling**

Error handling strategy "User/system expects result of invocation" and "Asynchronous notification / update to external system" described in [SDD0003] applies.

**3.7 ØIR / Debtor (SF1590\_B)**

The OIR service enables integration to an external debtor system via Serviceplatformen. If enabled FBS sends almost all balances and all related transactions to the debtor system. Payments made in the debtor system are automatically synchronized to FBS.

Changes to balances are sent to the debtor system asynchronously via a scheduler that executes every minute.

Balances synchronized to the debtor system cannot be paid in interfaces provided by FBS and is paid through systems integrating directly to the debtor system, and the debtor system is then responsible for notifying FBS.

### 3.7.1 Standards

The documentation and specification for the service FBS integrates to can be found in [OIR]. The concrete service used by FBS is 'DebtorRegistreringAfsend' and FBS provides the service 'DækningAfskrivningRegistreringModtag' in order to receive information regarding payments and write-off's.

### 3.7.2 Parameters

FBS includes the following datamodel when invoking DebtorRegistreringAfsend.

#### 3.7.2.1 Debitorkonto

When sending new claims (fordringer) to the debtor system, a debtor account (debitorkonto) is created or reused. The general rule for creating or reusing a debtor account is whether other active claims are related to the account – if all claims have been closed a new account is created.

| Element name                        | FBS implementation  |
|-------------------------------------|---|
| DebitorkontoType                    | Is one of the following values:<br><br>Bibliotekskrav<br><br>Bibliotekskrav_mindreaarige_m_oekonomisk_ansvarlig<br><br>Bibliotekskrav_mindreaarige_u_oekonomisk_ansvarlig<br><br><i>See [Classification] for actual UUID-values</i> |
| DebitorkontoOrganisatoriskReference | Configured by the agency  |
| DebitorkontoOprettetDatoTid         | Timestamp for when the account is created.  |
| DebitorkontoIdentifikation          | CPR for person patrons. CVR for company and library patrons.  |
| DebitorkontoIdentifikationType      | The type matching field DebitorkontoIdentifikation. Can be one of the following values:<br>CPR-Nummer, ErstatningsCPR_nummer, CVR-Nummer  |

| Element name                                      | FBS implementation   |
|---|--|
|   | <i>See [Classification] for actual UUID-values</i>   |
| DebitorkontoAdministratorMarkering                | Always false, as administrators is not supported in FBS.   |
| DebitorkontoFølsomhed                             | Always set to 'Fortrolige_personoplysninger'<br><br><i>See [Classification] for actual UUID-values</i>   |
| JuridiskAnsvarlig.ØIRPartId                       | The patron's CPR, CVR or ErstatningCPR. In case the patron is a minor and has a financial responsible the financial responsible's CPR / ErstatningCPR is used.                                   |
| JuridiskAnsvarlig.ØIRPartIdType                   | The type matching field JuridiskAnsvarlig.ØIRPartId. Can be one of the following values: CPR-Nummer, ErstatningsCPR_nummer, CVR-Nummer<br><br><i>See [Classification] for actual UUID-values</i> |
| JuridiskAnsvarligPartAdresse.ØIRPartNavn          | Patron's or Financial responsible's name.<br><br><i>Only In case JuridiskAnsvarlig.ØIRPartIdType is of type ErstatningsCPR_nummer this field is present in the request.</i>                      |
| JuridiskAnsvarligPartAdresse.ØIRAdresseFormatKode | Always has the value 'Unstructured'.   |

| Element name  | FBS implementation  |
|---|---|
|   | <i>Only In case JuridiskAnsvarlig.ØIRPartIdType is of type ErstatningsCPR_nummer this field is present in the request.</i>  |
| JuridiskAnsvarligPartAdresse.UstruktureretAdresse.<br>AdresselinjeTekst   | List of lines representing the address of the JuridiskAnsvarlig (Patron or Financial responsible).<br><br>First line contains: Street<br><br>Second line contains: Zipcode + City<br><br><i>Only In case JuridiskAnsvarlig.ØIRPartIdType is of type ErstatningsCPR_nummer this field is present in the request.</i> |
| JuridiskAnsvarligPartAdresse.ProduktionsenhedPNumm<br>erStruktur.ProduktionsenhedPNummerVærdiValg.Prod<br>uktionsenhedPNummer | <i>In case the field JuridiskAnsvarlig.ØIRPartIdType has value CVR and a Pnumber is registered on the patron, this field contains the Pnumber.</i>  |

### 3.7.2.2 Fordring

| Element name               | FBS implementation   |
|----------------------------|--|
| FordringUnikIdentifikation | Generated UUID of the Fordring   |
| FordringOprettetDatoTid    | Date for when the balance was created.   |
| FordringKravType           | Can contain one of the following values:<br><br>Biblioteksgebyr_overskredet_laanetid |



| Element name               | FBS implementation   |
|----------------------------|--|
|                            | Bibliotekserstatningskrav_m_ankendelse_el_kvitt<br>Bibliotekserstatningskrav_u_ankendelse_el_kvitt<br><br><i>See [Classification] for actual UUID-values.</i>  |
| FordringForfaldsdato       | When field FordringKravType has values Bibliotekserstatningskrav_m_ankendelse_el_kvitt, Bibliotekserstatningskrav_u_ankendelse_el_kvitt then the field has the return date of the corresponding loan or if there is no loan, then it is the date the Fordring was created.<br><br>If FordringKravType has value Biblioteksgebyr_overskredet_laenetid, then the value is either of the following: <ul style="list-style-type: none"> <li>• If the distance between the return date of the loan and the date the balance was created is below 8: The value is the return date of the loan + 1.</li> <li>• If the distance is between 8 and 31 days: the value is the return date of the loan + 8.</li> <li>• If the distance is 31 days or more: the value is the return date of the loan + 31.</li> </ul> |
| FordringOpkrævningTilstand | Always value 'OPKRAEV'   |
| FordringBeløb              | Amount of the balance.   |
| FordringStiftelsesdato     | When field FordringKravType has values Bibliotekserstatningskrav_m_ankendelse_el_kvitt,  |

| Element name   | FBS implementation   |
|--|--|
|  | <p>Bibliotekserstatningskrav_u_anerkendelse_el_kvitt then the field has the loan date of the corresponding loan or if there is no loan, then it is the date the Fordring was created.</p> <p>If FordringKravType has value Biblioteksgebyr_overskredet_laanetid, then the value is return date of the corresponding loan or if there is no loan, then it is the date the Fordring was created.</p>   |
| Opgørelsesperiode.FordringPeriodeFraOgMedDato                              | <i>Same as FordringStiftelsesdato</i>  |
| Opgørelsesperiode.FordringPeriodeTilOgMedDato                              | <i>Same as FordringStiftelsesdato</i>  |
| FordringFølsomhed  | <p>Always has value Fortrolige_personoplysninger</p> <p><i>See [Classification] for actual UUID-values.</i></p>  |
| FordringSpecifikationListe.FordringSpecifikation.FordringSpecifikationType | <p>For each needed value, a new element is added to the list.</p> <p>Contains one of the follow values:</p> <p>Fagsystem_Krav_Identifikation</p> <p>Fordringstype</p> <p>Inddrivelsestekst</p> <p><i>The types Fordringstype, Inddrivelsestekst is only present in the request if field DebitorkontoType has one of the values 'Claim' and 'Claim for minor with financial responsible', and JuridiskAnsvarlig.ØIRPartIdType is not of type ErstatningsCPR_nummer.</i></p> |

| Element name  | FBS implementation   |
|---|--|
|   | See [Classification] for actual UUID-values.   |
| FordringSpecifikationListe.FordringSpecifikation.FordringSpecifikationTekstVærdi  | <p>Contains the corresponding values to the types Fagsystem_Krav_Identifikation, Inddrivelsestekst.</p> <p>Can contain the following values:</p> <p><u>Fagsystem_Krav_Identifikation:</u><br/>Bill number</p> <p><u>Inddrivelsestekst:</u></p> <p>“Gebyrnr.: &lt;number&gt;, &lt;minor name&gt;, &lt;minor birthdate&gt;”</p> <p>“Gebyrnr.: &lt;number&gt;”</p> <p>“Erst.nr.: &lt;number&gt;, &lt;minor name&gt;, &lt;minor birthdate&gt;”</p> <p>“Erst.nr.: &lt;number&gt;”</p> <p><i>In case data is not available, it will not be included in the text.</i></p> |
| FordringSpecifikationListe.FordringSpecifikation.FordringSpecifikationKlasseVærdi | <p>Contains the corresponding value to the type Fordringstype.</p> <p>Can contain the following values:</p> <p>KFERSBA</p> <p>KFERSBI</p> <p>KFGLAANB</p>  |

| Element name   | FBS implementation   |
|--|--|
|  | <i>See [Classification] for actual UUID-values.</i>  |
| FordringTekstLinjeListe.FordringTekstLinje.FordringTekstLinjeIndex | Index of the line starting from 1.   |
| FordringTekstLinjeListe.FordringTekstLinje.FordringTekstLinjeTekst | <p>Contains the description of the Fordring. Each line can maximum be 60 characters, hence each section can be one or more lines.</p> <p>Can contain the following values.</p> <p>First section (max 2 lines):</p> <p>“Beregnet fra: &lt;date&gt; &lt;classification&gt; &lt;author&gt;: &lt;title&gt;”</p> <p>Second section:</p> <p>“Lånt: &lt;date&gt; Afl.frist: &lt;date&gt;”</p> <p>Third section:</p> <p>“Gebyrnr.: &lt;number&gt; Mat.nr.: &lt;number&gt;”</p> <p>“Erst.nr.: &lt;number&gt; Mat.nr.: &lt;number&gt;”</p> <p>Fourth section:</p> <p>“Mindreårig CPR: &lt;minor CPR&gt;”</p> <p>“P-nummer: &lt;Pnumber&gt; EAN-nummer: &lt;EAN&gt;”</p> <p><i>In case data is not available, the leading text and the data itself will not be included in the text.</i></p> <p><i>E.g. if the record has no author, then the first section will look like:</i></p> |

| Element name  | FBS implementation  |
|---|---|
|   | "Beregnet fra: <date> <classification> <title>"   |
| DebitorKontaktinformation.DebitorKontaktinformation<br>GLNNummer  | Contains EAN number for COMPANY and LIBRARY patrons. The element is added if the patron has the information registered. |
| DebitorKontaktinformation.DebitorKontaktinformation<br>PersonNavn | Contains name of contact person for COMPANY patrons. The element is added if the patron has the information registered. |

### 3.7.2.3 FordringNedregulering

| Element name                                    | FBS implementation  |
|---|---|
| FordringNedreguleringUnikIdentifikation         | Generated UUID of the FordringNedregulering   |
| FordringNedreguleringOprettetDatoTid            | Date of the reduction.  |
| NedregulererFordring.FordringUnikIdentifikation | UUID of the Fordring reduced.   |
| FordringNedreguleringBeløb                      | Amount the Fordring is reduced with.  |
| FordringNedreguleringÆndringÅrsagKode           | Always has the value Regulering.<br><i>See [Classification] for actual UUID-values.</i> |
| FordringNedreguleringÆndringÅrsagTekst          | Text provided by the user performing the reduction.                                     |

### 3.7.3 Error handling

Error handling strategy "Asynchronous notification / update to external system" described in [SDD0003] applies.

In the event of an error, warning or notification is returned a task is created for the library in case it is configured. If an error is returned from the debtor system the debtor account is suspended and has to be unsuspending before FBS sends changes to the related claims to the debtor system.

## 3.8 Reports to Danmarks Statistik (SF1820)

This section describes how the data is delivered to Danmarks Statistik through the Serviceplatform.

When extracting the reports, several CSV files is generated containing the results. The CSV files is then packed into a ZIP file and uploaded to the SFTP (Serviceplatform)

### 3.8.1 Name and structure

The data is extracted and delivered per agency, as agencies can enable or disable the integration.

The naming of the CSV files will have the format:

P\_<agencyISIL>\_<reportName>\_V<versionNumber>\_D<yyyyMMdd>.txt

Example: P\_DK-761500\_afgamon\_V01\_D20190101.txt

The CSV files is delivered in a ZIP file with the name:

P\_<agencyISIL>\_V<versionNumber>\_D<yyyyMMdd>.zip

Example: P\_761500\_V01\_D20190101.zip

The columns of the files, and their versionNumber are influenced by the grouping configured for the reports:

- grouped by Agency, the versionNumber of the zip and csv files will be 01.
- grouped by Branch, the versionNumber of the zip and csv files will be 02.

### 3.8.2 Format

The CSV files has the following format:

- Each record is located on a separate line
- The values are comma separated
- It doesn't have a header
- Encoding of the files will be windows-1252

### 3.8.3 Content

The reports contain the following columns in this exact order:

#### **Afgamon**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- General Material Term
- Specific Material Term
- Number of materials

The afgamon report does not contain inter library loans and only materials from material groups which are NOT marked for "Temporary materials" or "Long term loans".

#### **Afgaser**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- Type of serial
- Number of subscriptions

#### **Bestmon**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- General Material Term
- Specific Material Term
- Number of materials

The bestmon report does not contain inter library loans and only materials from material groups which are NOT marked for "Temporary materials" or "Long term loans"

## **Bestser**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- Type of serial
- Number of subscriptions

## **Forny**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- Mono or serial
- Handle type
- Recipient code
- General Material Term
- Specific Material Term



- Year of birth
- Number of renewals
- Is for long term loans (only present if report grouping configuration is set to Branch)

The forny report does not contain inter library loans.

## **Interin**

- Requesting Agency
- Mono or serial
- General Material Term
- Specific Material Term
- Supplier code
- Number of inter library loans

The interin report is not influenced by the grouping configuration.

## **Laanere**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Borrower group
- Municipality code
- Borrower category
- Year
- Number of patrons

## **Tilvmon**

- AgencyISIL or BranchISIL, depending on grouping configuration

- Department Affiliation
- General Material Term
- Specific Material Term
- Number of materials

The tilvmon report does not contain inter library loans and only materials from material groups which are NOT marked for “Temporary materials” or “Long term loans”

## **Tilvser**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- Type of serial
- Number of subscriptions

## **Udlaan**

- AgencyISIL or BranchISIL, depending on grouping configuration
- Department Affiliation
- Mono or serial
- Handle type
- Recipient code
- General Material Term
- Specific Material Term
- Year of birth
- Number of checkouts

- Is for long term loans (only present if report grouping configuration is set to Branch)

The udlaan report does not contain interlibrary loans.

### 3.8.4 Error handling

When the file upload is unsuccessful, the error is logged and appears in Systematics monitoring of the integration.

### 3.9 FBS Statistics data for DDB and Danmarks Statistik (SF1820)

See [IFS0021].

### 3.10 Message Distributor (Beskedfordeler) (SF1460\_A)

FBS exposes an interface which Serviceplatformen can use to provide information about when a debtor account can be deleted or has been reopened.

#### 3.10.1 Standards

FBS exposes a REST service. The request and response types are defined in the following XSD:

- Beskedkuvert.xsd

The webservice exposes an endpoint to retrieve messages from the Message distributor. The request type is `HaendelsesbeskedType` and the response type is `StandardReturType`.

The XSD is provided by Serviceplatformen.

#### 3.10.2 Parameters

The following are read when receiving a request:

| Element name                                    | FBS implementation               |
|---|----------------------------------|
| haendelsesbeskedType.BeskedId.UUIDIdentifikator | Unique identifier of the message |

| Element name  | FBS implementation   |
|---|--|
| haendelsesbeskedType.Beskedkuvert.Filtreringsdata.<br>Beskedtype.UUIDIdentifikator                              | Only supports the following message type: "DebitorkontoStatusSkift". UUID: 2e844a0f-6e13-4d3a-971c-0ad59b24898d  |
| haendelsesbeskedType.BeskedVersion  | Check version is supported   |
| haendelsesbeskedType.Beskedkuvert.Filtreringsdata.<br>ObjektRegistreringType.ObjektId                           | Unique id for debtor account   |
| haendelsesbeskedType.Beskedkuvert. Filtreringsdata.<br>ObjektRegistreringType.ObjektHandling. UUIDIdentifikator | UUID describing which action to be performed <ul style="list-style-type: none"> <li>• Debtor account closed: 3642d7d0-059e-45fb-9279-2fc0c11d9e4d</li> <li>• Debtor account reopend: 50c77c76-3627-412e-bca2-72a6a6c8b39e</li> </ul> |
| haendelsesbeskedType.Beskedkuvert.GyldighedTil.<br>TidsstempelDatoTid   | Debtor account can be deleted after this date. (only for action: debtor account closed)  |

# SYSTEMATIC

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Copenhagen

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Brisbane

## **Canada**

Ottawa

## **Finland**

Tampere

## **Germany**

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