

Specification for Data Suppliers and Software Suppliers

**BS XML000 COLLECTIONS AND RELATED
INFORMATION TO BETALINGSSERVICE**

APRIL 2021

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1. Preface

Content and purpose

This manual contains the specification of the XML structure used to send creditors payment orders and related information to Betalingservice.

The manual contains specification of data from the data supplier to Betalingservice concerning

- BS Automatisk betalinger (Automatic Payments)
- BS Indbetalingskort (Payment slips)
- Optional text to debtor concerning the payment
- Optional enclosures as PDF documents

To give a brief understanding of Betalingservice, the document contains a short introduction to the most important facilities that are related to the processing of payment orders.

However the specification is meant to be the user guide for the Data Supplier and the staff developing and maintaining the interface containing the payment and related information as an XML file (PBSXML000).

Version and Updates	Alteration	New function implemented
4.2.2		Minor text changes on page 29, Introduction to M601Record - the collection information, section Dependencies
4.3	www.nets.eu to www.betalingservice.dk	
4.4		Minor text changes
Dec. 2017		From 1. February 2018 The payment date may be up to 90 days in the future for section 112 and 117.
Feb 2018		Small corrections
Oct 2019		Small corrections and wording
Nov 2020		Introducing new XSD address
March 2021		Small corrections and wording
April 2021		Small corrections and wording

2. Contact and further information

More information about the products, contact information and opening hours can be found at www.betalingservice.dk

3. Automatic payments and Payment slips

Automatic payments & Payment slips (option 2)

This solution allows the creditor to deliver collection data to Betalingservice for the entire population of debtors from which collections are to be made – including the debtors' name and address information.

Betalingservice then creates collections for all debtors, either as automatic payments through Betalingservice or as payment slips. Payment slips are created if the debtor is not registered for Betalingservice.

It is possible to create and send out payment slips for creditors on a continual basis, independently of the monthly collection cycle in Betalingservice. This may, for example, be appropriate in the case of dunning's, replacement collections, ad hoc collections, etc., where the collection needs to reach the recipient quickly.

Automatic payments (option 1)

This solution is based on making a collection through Betalingservice without creating payment slips for the other debtors.

The delivery XML000 should therefore contain only collection data for collection from debtors who have a mandate with the creditor.

Creditors the only use Betalingservice for automatic payments, must use Data Delivery BS 0603 – Mandate Information to ensure correct collection delivery. The Data Delivery BS 0603 – Mandate Information contains information on all mandates or registered and cancelled mandates, as well as the mandate number, which must be indicated in the collection data of the collection delivery.

Payment slips to debtors without a mandate

If a collection is sent to a debtor who has not registered a mandate for the collection in question, a payment slip is created for the debtor.

Several distribution channels for payment slips

In general, payment slips can be sent out through various distribution channels, reflecting the preferences of both the creditor and the debtor:

- Payment slips to Digital Post
- Payment slips for e-Boks

- Payment slips in paper format with fast dispatch
- Payment slips in paper format with standard dispatch

Several payment slips can be obtained using electronic media by adding the CPR/CVR no. in data record type 022, transaction code 0240.

Sectioned by PBS no/debtor group

If the collection data contains collections for several PBS no/debtor groups, the data delivery must be divided into sections, with one section for each PBS no/debtor group. Within each section, different payment dates may be delivered, though with only one payment per customer and payment date.

Text for notification of debtor

Text information for the payment pre-notification or payment slip is either:

- Specified in the data delivery at the time of each payment; or
- Retrieved from a fixed setup in the creditor's master data at Betalingservice.

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A combination of fixed text lines set up in Betalingservice, with continual delivery of text lines in the delivery, is also possible.

The text must be related to the payment, e.g. as a specification of consumption or amount. It may not contain text or links to promote other payment methods than the ones supplied by Mastercard Payment Services.

Furthermore, the text must comply to current regulation – e.g. provisions about unsolicited marketing in the Danish Act on Marketing (“Markedsføringsloven”).

In case of Mastercard Payment Services receives a text that do not comply to the above-mentioned guidelines, Mastercard Payment Services reserves the right to not include the received text.

All text on the pre-notification and payment slips is printed in mix case.

Special text for payment slips

It is possible to use special notification text on payment slips. For example, the text may be a request to register the payment with Betalingservice.

In order to make use of the separate text lines, the text must be submitted as data record type 062.

The text must be related to the payment, e.g. as a specification of consumption or amount. It may not contain text or links to promote other payment methods than the ones supplied by Mastercard Payment Services.

Furthermore, the text must comply to current regulation – e.g. provisions about unsolicited marketing in the Danish Act on Marketing (“Markedsføringsloven”).

In case of Mastercard Payment Services receives a text that do not comply to the above-mentioned guidelines, Mastercard Payment Services reserves the right no to include the received text.

Payment due date

The payment date may be up to 90 days in the future.

Only use Betalingservice for payments slip - The due payment date of the collection may be no earlier than one (1) banking day after registration of the delivery in Betalingservice.

Note: Betalingservice does not check whether the payment slip will be able to reach the debtor within the specified payment due date. This depends on the distribution channel chosen by the creditor.

Creditor's own reference for the individual collection

In BS XML000 – Collection data it is possible to specify a reference for the individual collection. The reference is returned in Data Delivery BS 0602 – Payment Information, together with the status of the collection.

Note that:

- For collections paid through Automatic payments, references of up to 30 characters are returned;
- For collections via payment slips, the first 9 characters of the reference are returned.

Number of sections per delivery

In BS XML000 – Collection data each delivery may contain a maximum of 9000 sections.

Debtor's customer number

Creditors who use alphanumeric customer numbers should note that Betalingservice is unable to distinguish between lower case and upper case letters. Customer numbers cannot therefore be separated by the size of the letters alone.

Disbursement to debtors

Note that disbursement to debtors can only be made if the debtor has a mandate.

If Betalingservice has received payments to debtors who do not have a mandate, an information list is created showing the debtor's customer number, payment date and amount.

On the basis of this information, the creditor can then manage the disbursement.

Text specifying the collection

It is possible to include text data in the collection data. It can be done by including specific text information for each debtor's collection or by using a standard text from a standard setup. The two options can be mixed.

Enclosures specifying the collection

It is possible to attach up to 20 PDF documents to each collection. Where text data is printed on the debtors list of collections, the PDF document is printed on separate pages. The creditor can design the PDF documents with own logos and design.

4. Structure for exchange of data

Introduction

Betalingservice contains as few delivery types as possible. In return it is possible for the creditor to receive exactly the desired data within the individual delivery and no more.

The main principle is that the exchange of data only consists of the essential data.

Deliveries to Betalingservice

Delivery BS XML000 – Collections and related information to Betalingservice in XML structure and option to attach PDF documents for enclosure.

Deliveries from Betalingservice

Delivery BS 0602 – Payment Information

Delivery BS 0603 – Mandate Information

Delivery BS 0686 - Status on payment slips

Delivery BS 0621 - Electronic information list

Delivery structure

The overall structure for the BS XML000 file consists of:

1. The delivery start information

This group of information identifies the recipient or the sender of the delivery and contains among other information:

The delivery type

The date for the creation of the delivery

2. The section start information

This group of information contains information of e.g.: The

creditor's PBS number in the Betalingservice registry

The creditor's debtor group number

The section number (identifies the type of section)

The date for creation of the section

3. The detailed information:

This group of information contains the information concerning the debtors such as:

Information about the due payment

Information about enclosures

4. The end of section information

This group of information contains e.g.:

The counting fields – totals to verify the content of the detailed information.

5. The end of delivery information

The group of information contains e.g.:

The total counting for the sections in the delivery

Character Set

In the deliveries to Betalingsservice it is always recommended to make use of the same character set that is as used in the operative system that the creditor's software is operating with.

If for example Windows is used, then the ISO-character set for this platform should be used. If a DOS-platform is used, then character set 850 should be used (Multilingual).

Always be aware, that if the creditor changes the operative system, then the character set can have changed as well. In such case a test is recommended (a text file), before the new operative system is used for production in Betalingsservice.

Receipts in general

The data supplier receives a "Data Supplier Receipt" for each delivery transmitted to Betalingsservice. The receipt states the received number of records and the eventual amount.

Receipt for BS XML000

Having sent the XML file and PDF enclosures, Betalingsservice will first send a receipt stating, if the XML could be validated correct. If the package could not pass this validation, the whole package will be rejected.

If the package passed the first validation, Betalingsservice validates if the PDF enclosures, stated in the XML file, were present in the package. If the package could not pass this validation, the whole package will be rejected.

If the package passes the second validation, a final receipt will be sent to the data supplier. The "Data Supplier Receipt" states the received number of collections and the total amount.

Remark: Please refer to "Receipts from Betalingsservice".

5. BS XML000 Specification

Terms

In this user guide the following terms are used to describe the XML:

Package

The term “package” refers to one of 2 ways to send the collections and enclosures. By sending the elements as a package, the PDF documents are sent as separate files together with the XML in a zipped file package(No compression). Also refer to Embedded PDF.

Embedded PDF

The term “Embedded PDF” refers to the option to embed the enclosures inside the XML as a tag. A PDF document must be encoded with a specific tool before it is embedded in the XML.

Group:

A group is a naming convention to describe one or more subgroups or tags

Subgroup:

A Subgroup is a naming convention to describe one or more tags

Tag:

A Tag is one entity e.g. “CreditorPBSNr.”

Numeric tag

A tag that only can hold numeric data (0-9). A numeric tag must have exactly the specified length with preceding zeros. The tag is described with “<length> - Numeric” in the XML-sample. <Length> defines the exact length.

Alfa numeric tag

A tag that can hold both numeric and alfa data (0-9 + A-XYZÆØÅ). The tag is described as “<max. length> - Char” in the XML-sample. <Max.length> defines the maximum length. An alpha-numeric tag can be send with or without subsequent spaces.

Mandatory:

If a Group, Subgroup or Tag is mandatory, it means, that it must be present in the XML.

Optional:

If a group, Subgroup or Tag is optional, it means, that it can be present in the XML.

Optional/Dependant

If a Subgroup or Tag is optional/dependant, it means that it only can or must be present if an optional Group, Subgroup or Tag is present.

Iteration:

Iteration means the number of times a Group, Subgroup or Tag can be present in the XML.

6. Package file structure

Definitions

A package is a zipped(uncompressed) file containing the XML file and optional PDF documents. The files must not be stored in an folder before zipping.

The XML file is the structure that contains collections and, if relevant, enclosures for all or part of the collections.

The enclosure is the PDF document that is to be presented to the debtor in connection with a collection.

Remark

It is NOT possible to send an XML, which only contains information about enclosures.

Also it is not possible only to send corrections to earlier sent collections if the original XML file contained enclosures to the collections.

7. File structure for XML with embedded PDF

Definitions

A file with embedded PDF enclosures contains only the XML file. The PDF enclosures are defined as a tag in the XML.

The PDF document must be encoded into a Base64Binary format before it is added to the XML.

Remark

It is not possible to send an XML, which only contains information about enclosures.,

Also it is not possible only to send corrections to earlier sent collections if the original XML file contained enclosures to the collections.

8. Naming conventions for deliveries to Betalingservice

General naming conventions

When you send the file to Betalingservice, you must comply to the naming conventions that are specified below.

	Description	Length	Format
AB_PBSXML000	LayoutID	12	Alphanumeric
YEARMONTH	YYYYMM delivery submission date	6	Numeric
CVRNO	Data Supplier number	8	Numeric
Delivery ID	Customers reference	10	Numeric
	This delivery ID must be the same as entered in the XML. The delivery ID must be unique within current year and 12 months backwards. The delivery ID is sent back in receipts from Betalingservice for audit reasons.		
TEST or PROD	Test or Prod identification	4	Alpha
	“Prod” means that the package will be used for production purpose. “Test” means that the enclosures and collections will be used for test purpose. You should contact Betalingservice before sending test files to Betalingservice.		

Specific convention for packages

A package must have the extension “.zip” The XML must have the extension “.xml” The enclosures must have extension “.pdf”.

The file name of each enclosure in the package must be unique within the package. The naming of the PDF-files can only contain letters from the ISO basic Latin alphabet (Which means that it is not allowed to use special characters.)

The name of each enclosure must match the name of the enclosure that is stated in the XML file. However the extension “.PDF” should not be included in the name of the enclosure in the XML.

Naming convention for files with embedded PDF

An XML with embedded PDF documents must have the extension “.xml”

Schematic overview

The diagram below shows the overall structure that must be used, when the XML file for Betalingservice is created. For further description refer to the specification for the desired group or tag.

Summary of limitations

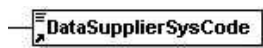
There are certain limitations for the maximum number of iterations for various groups.

1. A FullDelivery can contain up to 9.000 sections.
2. In the BS 0601 record for a debtor you can enter up to 5.000 TextLines in the group RecordType052 and up to 5.000 Textlines in the group Record-Type062.
3. In the BS 0620 Record for a debtor you can enter specifications for up to 20 enclosures.

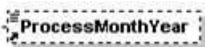
How to read the diagram

In order to reflect the hierarchy and sequences, you should read the diagram from left to right and from top to bottom.

Symbols and their meaning



A group or tag, which is in a box with unbroken lines, is mandatory.



A group or tag, which is in a box with broken lines, is optional or optional/dependant.

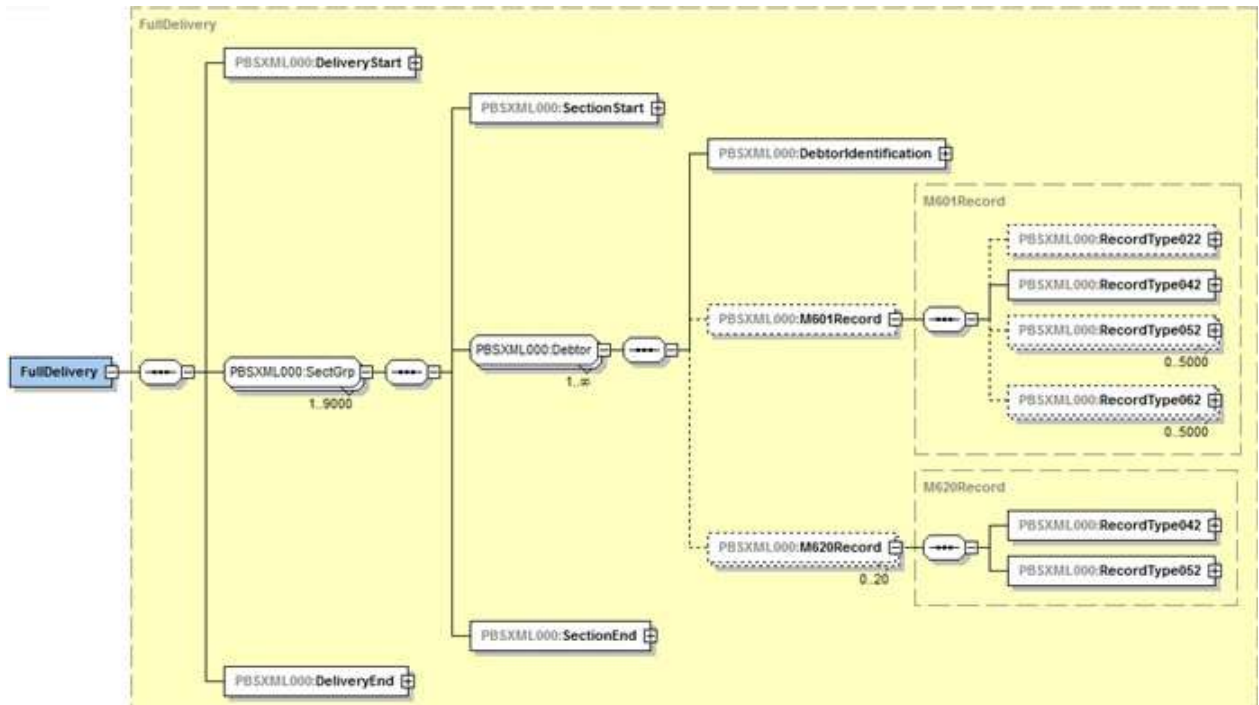


A group, which holds iterative data right to the symbol, has their minimum and maximum iterations shown underneath the symbol.



This symbol shows, that a group contains a sequence of information – groups or tags - that are shown right to the symbol

9. Overall schematic overview



10. BS XML000 structure - overview

The XML-structure

Underneath is the full XML structure. Each element is specified afterwards.

```
<?xml version="1.0" encoding="20-Char (IBM277 or ISO8859-1 or UTF-8)"?>
  <PBSXML000:FullDelivery xmlns:PBSXML000="https://www.betalingservice.dk/xsd/pbsxml000bigmax"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="https://www.betalingservice.dk/xsd/pbsxml000bigmax https://www.betalingsser-
    vice.dk/xsd/pbsxml000bigmax.xsd">
    <PBSXML000:DeliveryStart>
    <PBSXML000:DataSupplierCVR>8-Numeric</PBSXML000:DataSupplierCVR>
    <PBSXML000:DataSupplierSysCode>3-Char</PBSXML000:DataSupplierSysCode>
    <PBSXML000:DeliveryCreateDate>6-Numeric</PBSXML000:DeliveryCreateDate>
    <PBSXML000:ProcessMonthYear>MMYYYY</PBSXML000:ProcessMonthYear>
    <PBSXML000:PaymentType>2-Numeric</PBSXML000:PaymentType>
    <PBSXML000:DeliveryId>10-Numeric</PBSXML000:DeliveryId>
    <PBSXML000:DLInfo01>6-Char</PBSXML000:DLInfo01>
    <PBSXML000:DLInfo02>8-Char</PBSXML000:DLInfo02>
    <PBSXML000:SpecialInfo>8-Char</PBSXML000:SpecialInfo>
    <PBSXML000:PDFValidationCode>8-Char</PBSXML000:PDFValidationCode>
    </PBSXML000:DeliveryStart>

    <PBSXML000:SectionStart>
    <PBSXML000:CreditorPBSNr>8-Numeric</PBSXML000:CreditorPBSNr>
    <PBSXML000:SectionNr>4-Numeric</PBSXML000:SectionNr>
    <PBSXML000:DebtorGroupNr>5-Numeric</PBSXML000:DebtorGroupNr>
    <PBSXML000:DataSupplierID>15-Char</PBSXML000:DataSupplierID>
    <PBSXML000:CreateDate>8-Numeric</PBSXML000:CreateDate>
    <PBSXML000:HeadLine>60-Char</PBSXML000:HeadLine>
    </PBSXML000:SectionStart>

    <PBSXML000:DebtorIdentification>
    <PBSXML000:DebtorCustomerNr>15-Char</PBSXML000:DebtorCustomerNr>
    <PBSXML000:AgreementNr>9-Numeric</PBSXML000:AgreementNr>
    <PBSXML000:DuePayDate>DDMMYYYY</PBSXML000:DuePayDate>
    <PBSXML000:DebtorCVROrCPNR>10-numeric</PBSXML000:DebtorCVROrCPNR>
    <PBSXML000:MailServiceLevel>1-char</PBSXML000:MailServiceLevel>
    <PBSXML000:MandatoryPrint>1-char</PBSXML000:MandatoryPrint>
    <PBSXML000:DebtorOCRIdShort>15-numeric</PBSXML000:DebtorOCRId>
    </PBSXML000:DebtorIdentification>

    <PBSXML000:M601Record>
    <PBSXML000:RecordType022>
    <PBSXML000:DebtorNameAddr1>35-Char</PBSXML000:DebtorNameAddr1>
    <PBSXML000:DebtorNameAddr2>35-Char</PBSXML000:DebtorNameAddr2>
    <PBSXML000:DebtorNameAddr3>35-Char</PBSXML000:DebtorNameAddr3>
    <PBSXML000:DebtorNameAddr4>35-Char</PBSXML000:DebtorNameAddr4>
    <PBSXML000:DebtorNameAddr5>35-Char</PBSXML000:DebtorNameAddr5>
    <PBSXML000:DebtorPostCode>4-Char</PBSXML000:DebtorPostCode>
    <PBSXML000:DebtorCountryCode>3-Char</PBSXML000:DebtorCountryCode>
    </PBSXML000:RecordType022>

    <PBSXML000:RecordType042>
    <PBSXML000:SignCode>1-Numeric</PBSXML000:SignCode>
    <PBSXML000:Amount>13-Numeric</PBSXML000:Amount>
    <PBSXML000:PayInfo>30-Char</PBSXML000:PayInfo>
    </PBSXML000:RecordType042>

    <PBSXML000:RecordType052>
    <PBSXML000:TextNoteRecordNr>5-Numeric</PBSXML000:TextNoteRecordNr>
    <PBSXML000:TextLine>60-Char</PBSXML000:TextLine>
    </PBSXML000:RecordType052>
  </PBSXML000:FullDelivery>

```



```

<PBSXML000:RecordType062>
  <PBSXML000:TextNote062RecordNr>5-Numeric</PBSXML000:TextNote062RecordNr>
  <PBSXML000:Text062Line>60-Char</PBSXML000:Text062Line>
</PBSXML000:RecordType062>
</PBSXML000:M601Record>

<PBSXML000:M620Record>

<PBSXML000:RecordType042>
  <PBSXML000:EditType>4-Numeric</PBSXML000:EditType>
  <PBSXML000:ContentText>30-Char</PBSXML000:ContentText>
</PBSXML000:RecordType042>

<PBSXML000:RecordType052>
  <PBSXML000:RecordSeqNr>4-Numeric</PBSXML000:RecordSeqNr>
  <PBSXML000:EnclosureFileName>26-Char</PBSXML000:EnclosureFileName>
  <PBSXML000:Enclosure>Base64Binary</PBSXML000:Enclosure>
</PBSXML000:RecordType052>

</PBSXML000:M620Record>

<PBSXML000:SectionEnd>
  <PBSXML000:NrOf042in601>11-Numeric</PBSXML000:NrOf042in601>
  <PBSXML000:Amountin601>15-Numeric</PBSXML000:Amountin601>
  <PBSXML000:NrOf052in601>11-Numeric</PBSXML000:NrOf052in601>
  <PBSXML000:NrOf022in601>11-Numeric</PBSXML000:NrOf022in601>
  <PBSXML000:NrOf052in620>9-Numeric</PBSXML000:NrOf052in620>
  <PBSXML000:NrOf042in620>9-Numeric</PBSXML000:NrOf042in620>
</PBSXML000:SectionEnd>

<PBSXML000:DeliveryEnd>
  <PBSXML000:NrOfAll012in601>11-Numeric</PBSXML000:NrOfAll012in601>
  <PBSXML000:NrOfAll042in601>11-Numeric</PBSXML000:NrOfAll042in601>
  <PBSXML000:TotalAmountin601>15-Numeric</PBSXML000:TotalAmountin601>
  <PBSXML000:NrOfAll052in601>11-Numeric</PBSXML000:NrOfAll052in601>
  <PBSXML000:NrOfAll022in601>11-Numeric</PBSXML000:NrOfAll022in601>
  <PBSXML000:NrOfAll052in620>9-Numeric</PBSXML000:NrOfAll052in620>
  <PBSXML000:NrOfAll042in620>9-Numeric</PBSXML000:NrOfAll042in620>
  <PBSXML000:NrOfAll012in620>9-Numeric</PBSXML000:NrOfAll012in620>
</PBSXML000:DeliveryEnd>

</PBSXML000:FullDelivery>

```

Scema Location

The Scema location for the XSD used in this user guide is :

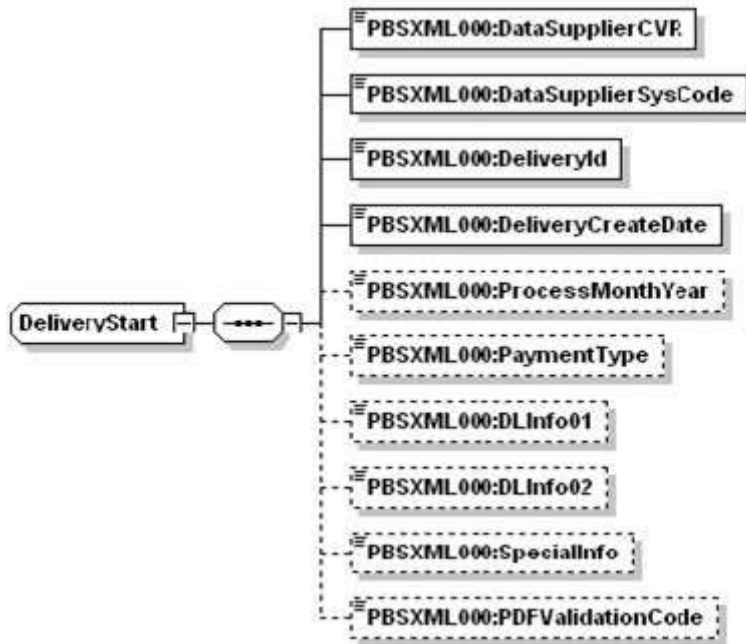
<https://www.betalingservice.dk/xsd/pbsxml000bigmax.xsd>

It is important to be aware that the validation against the XSD does not replace the validation in Betalingservice.

The XSD is a pre-validation/syntax check before sending data to Betalingservice.

11. Overview "Delivery Start"

Schematic overview



Tag name	Mandatory/Optional
DataSupplierCVR. The data supplier's number.	Mandatory
DataSupplierSysCode. System Code. The field contains the code for the delivery specification. For example BS1. The system code designation is arranged when the data supplier signs up the Data Supplier Agreement.	
DeliveryID. To be filled out at data supplier's free choice. The data supplier's reference for this delivery.	
DeliveryID can be used to identify the receipts sent back from Betalingsservice to the data supplier.	Mandatory
Remark : The DeliveryID must be unique within current year + one calendar year backwards. The value stated here must be the same as in the data element "Delivery ID" in the file name.	
In order to benefit from the option to track your file with receipts from Betalingsservice, you should only use the 8 rightmost characters to identify your file – so you should leave the 2 first characters as "00".	
DeliveryCreateDate. Can be filled out with zeros or the date of creation of this delivery	Mandatory
ProcessMonthYear. This tag is mandatory if the XML contains one or more M620Record Groups. It must be filled out with the month and year where the XML file is sent to Betalingsservice.	
Remark If the XML file contains attachments for more than one month, you must indicate the first of those months.	Optional/ dependent on SectionStart group, SectionNr Tag
The tag must not be present if no M620Record Groups are present in the XML.	
PaymentType. This tag is mandatory if the XML contains one or more M620Record Groups. The tag must not be present if no M620Record Groups are present in the XML.	Optional/ dependent on SectionStartGroup, Section Nr Tag
The value of the code indicates to which kind of collection the enclosure must be attached. Refer to next page for legal values.	
DLInfo01. Extra specification concerning the XMLfile. This tag substitutes the data element from the PBCNET record – byte 23-28.	Optional
DLInfo02. Extra specification concerning the XML-file. This tag substitutes the data element from the PBCNET record – byte 37-44	Optional
DLSpecinfo Only to be used after agreement with Betalingsservice	Optional
PDFValidationCode : Is not implemented	Optional

Payment Type - legal values

The tables below show which values are legal to specify which kind of payment the enclosures must be attached to.

Section 0112

Payment type	Meaning that enclosures will be attached to:
00	<ul style="list-style-type: none">• All payment types:• Automatic payments• Payment slips to Digital Post• Payment slips for e-Boks• Paper payment slips
02	Payment slips to Digital Post Payment slips for e-Boks Paper payment slips
03	Automatic payments, only

Section 0117

Payment type	Meaning that enclosures will be attached to:
01	Payment slips to Digital Post Payment slips for e-Boks Paper payment slips

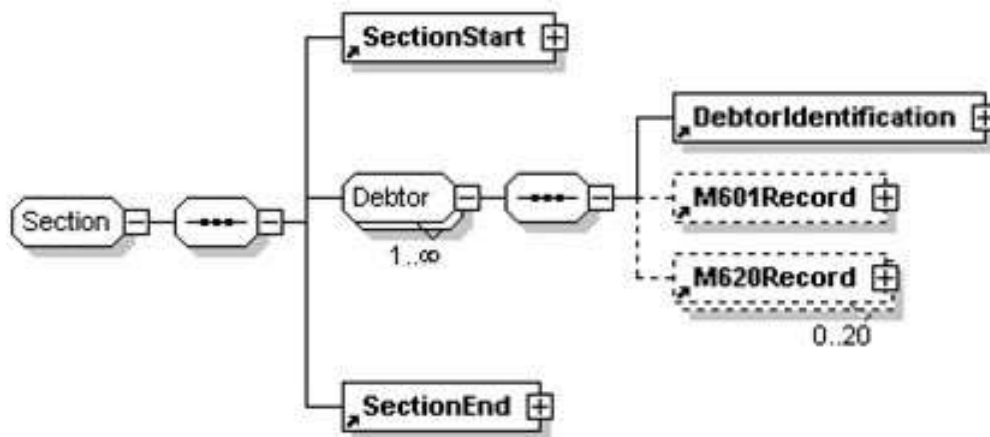
12. XML specification Delivery Start

XML structure

```
<PBSXML000:DeliveryStart>  
  <PBSXML000:DataSupplierCVR>8-Numeric</PBSXML000:DataSupplierCVR>  
  <PBSXML000:DataSupplierSysCode>3-Char</PBSXML000:DataSupplierSysCode>  
  <PBSXML000:DeliveryCreateDate>6-Numeric</PBSXML000:DeliveryCreateDate>  
  <PBSXML000:ProcessMonthYear>MMYYYY</PBSXML000:ProcessMonthYear>  
  <PBSXML000:PaymentType>2-Numeric</PBSXML000:PaymentType>  
  <PBSXML000:DeliveryId>10-Numeric</PBSXML000:DeliveryId>  
  <PBSXML000:DLInfo01>6-Char</PBSXML000:DLInfo01>  
  <PBSXML000:DLInfo02>8-Char</PBSXML000:DLInfo02>  
  <PBSXML000:SpecialInfo>8-Char</PBSXML000:SpecialInfo>  
  <PBSXML000:PDFValidationCode>8-Char</PBSXML000:PDFValidationCode>  
</PBSXML000:DeliveryStart>
```

13. Overview "Section"

Schematic overview

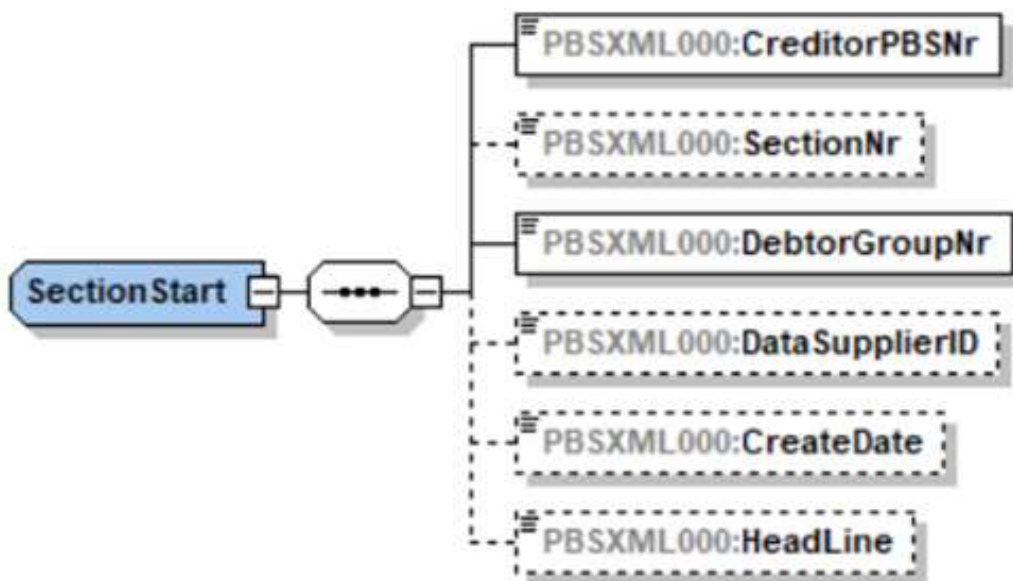


Further description

A section contains a sequence of information. First the general information about the creditor. Second, detail information about the debtors, the collections and eventual enclosures in the section, and finally information in the Section End, that contains totals for the detail information.

14. Overview "Section Start"

Schematic overview



Tag name	Mandatory/Optional
CreditorPBSNr. The creditor's PBS number.	Mandatory
SectionNr. The section number = 0112 is used for collections in general. The section number = 0117 is used for collections that are pre-defined to be Payment slips. Section number 117 can only be used by creditors who have agreed to use Betalingservice option 2.	Optional/Dependant
The tag is only in use if the XML contains 0601Record(s).	
DebtorGroupNr. As a minimum, the creditor must use one debtor group. The number can be chosen freely by the creditor.	Mandatory
DataSupplierID. The creditor's eventual identification with the Data Supplier. The field is for the data supplier's free use.	Optional
CreateDate. The field = 00000000 or the creation date of the delivery (ddmmyyy).	Optional

HeadLine Headline text for the Debtor's List Of Collections (pre notification for automatic payments). The headline is printed as the second line on the Debtor's List Of Collections together with the debtor's customer number with the creditor. If the text, concatenated with the customer number, takes up more space than 60 characters, then the text will be reduced and the customer number will be printed in its full length. If the field is not filled in, then the name of the debtor group taken from the Betalingsservice registry with the creditor's general information, will be used. In Betalingsservice option 2 solution the headline text is not used on the Payment slips .

Optional

If more deliveries with headline texts are delivered with due date in the same month, then the first received headline text will apply for all collections in that month.

That is, it is not possible to have different headline texts for the same debtor group by sending more deliveries or by dividing sections.

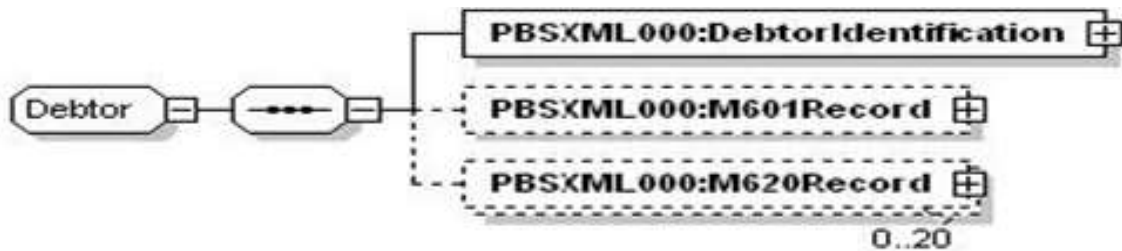
XML specification "Section Start"

XML structure

```
<PBSXML000:SectionStart>  
  <PBSXML000:CreditorPBSNr>8-Numeric</PBSXML000:CreditorPBSNr>  
  <PBSXML000:SectionNr>4-Numeric</PBSXML000:SectionNr>  
  <PBSXML000:DebtorGroupNr>5-Numeric</PBSXML000:DebtorGroupNr>  
  <PBSXML000:DataSupplierID>15-Char</PBSXML000:DataSupplierID>  
  <PBSXML000:CreateDate>8-Numeric</PBSXML000:CreateDate>  
  <PBSXML000:HeadLine>60-Char</PBSXML000:HeadLine>  
</PBSXML000:SectionStart
```

15. Introduction to information held in subgroup "Debtor"

Schematic overview



The content of the subgroups

Each of the subgroups M601Record and M620Record subgroup can contain information concerning the invoice and enclosure to one debtor.

There are 3 subgroups of information for each debtor:

The debtor identification, which holds Tags concerning the creditor's and Betalingservice's unique identification of the debtor and the due date for the payment.

The collection information, which is held as subgroups to M601Record. It contains 3 subgroups:

- RecordType022, which holds information about debtors name and address
- RecordType042, which holds information about the collection and due date
- RecordType052, which holds text information that will be presented on the invoice (either the debtors list of automatic payments or the payment slips).
- RecordType062, which holds text information that will be presented on payment slips. If no text information is included, the text information from the group RecordType052 will be presented on the payment slips.

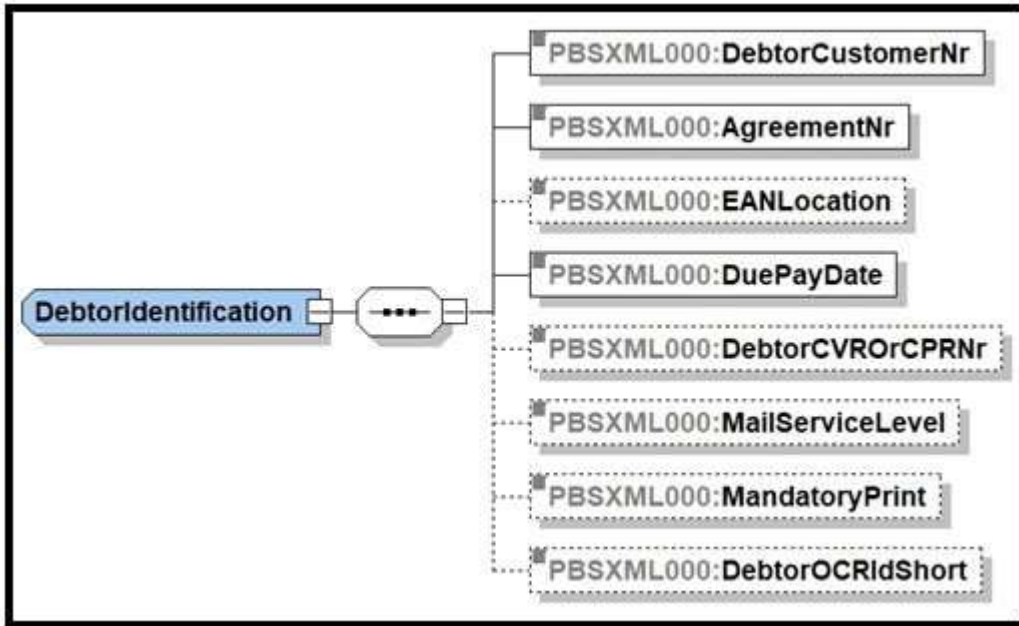
The enclosure information, which is held as subgroups to M620Record. It contains 2 subgroups:

- RecordType042, which holds keys to the collection in RecordType042 in the collection information
- RecordType052, which holds the name of the PDF document to be enclosed the payment information.

Refer to next pages for further specification.

16. Overview "Debtor Identification"

Schematic overview



Tag name	Mandatory/Optional
<p>DebtorCustomerNr. The debtor's customer number with the creditor. The customer number can be right sided with preceding zeros or left sided with subsequent space.</p> <p>If the customer number contains alphabetical characters, they must be in UPPER case.</p> <p>When the collected payments are notified to the creditor in the delivery 0602, "Payment Information From Betalingservice", then the customer number will always be right sided with preceding zeros.</p>	Mandatory/Optional
<p>AgreementNr. The agreement number for the debtor's automatic payment mandate. For the creditors using Betalingservice option 2, the field must be filled in with 000000000.</p> <p>The tag is mandatory if the M601Record is present for the debtor. If it is not present, AgreementNr is not in use</p>	Optional/dependent – refer to text.
<p>DuePayDate. The due payment date (ddmmyyyy).</p> <p>The payment date may be up to 90 days in the future</p>	Mandatory

DebtorCVRorCPNR. The tag is used to identification key for matching electronic payment slip ex. e-Boks/Digital Post. If used for CVR-numbers, the data should be 8 bytes long. For CPR- numbers it should be 10 bytes long.

Optional/dependent when using option 2

MailServiceLevel. This tag is used to make choice of dispatch speed for paper payment slip.

Specify "1" for fast dispatch.

Optional/dependent when using option 2

If not specified then standard dispatch.

MandatoryPrint. This tag is used if creditor wants to ensure that a payment slip is always printed – even if debtor has opted for receipt as an payment slip digital. If so, the data value in the tag must be set to "1".

Optional/dependent when using option 2

If creditor wants to obey the debtor's desired way of receiving the payment slip, this tag should not be used or filled out with the character blank

DebtorOCRIdShort. This tag is used if the creditor wants to generate his own 15 digit OCR-line in section's 0112 & 0117. The data entered in this tag must be the full OCR-line including control character based upon modulus 10 control.

Optional when using option 2

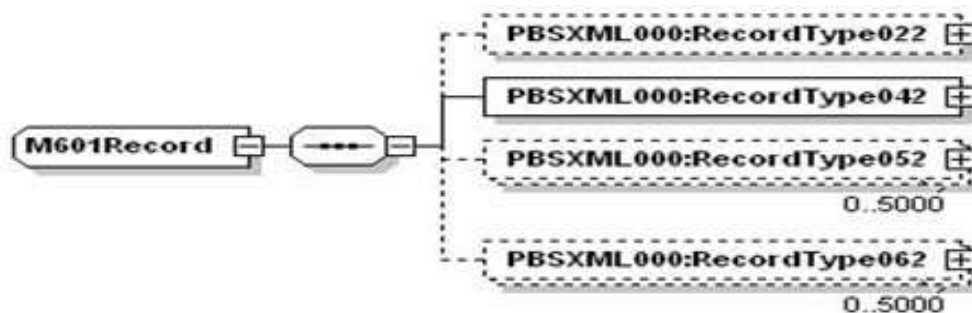
17. XML specification for "Debtor Identification"

The XML structure

```
<PBSXML000:DebtorIdentification>  
  <PBSXML000:DebtorCustomerNr>15-Char</PBSXML000:DebtorCustomerNr>  
  <PBSXML000:AgreementNr>9-Numeric</PBSXML000:AgreementNr>  
  <PBSXML000:DuePayDate>DDMMYYYY</PBSXML000:DuePayDate>  
  <PBSXML000:DebtorCVROrCPRNr>10-numeric</PBSXML000:DebtorCVROrCPRNr>  
  <PBSXML000:MailServiceLevel>1-char</PBSXML000:MailServiceLevel>  
  <PBSXML000:MandatoryPrint>1-char</PBSXML000:MandatoryPrint>  
  <PBSXML000:DebtorOCRIdShort>15-numeric</PBSXML000:DebtorOCRId>  
</PBSXML000:DebtorIdentification>
```

18. Introduction to M601Record - the collection information

Schematic overview



Collection information content

The structure M601Record contains a sequence of collection information for one debtor. The collection information contains 3 subgroups:

- RecordType022
- RecordType042
- RecordType052
- RecordType062

RecordType022 holds the information about debtors name and postal address It is used in section 0117 and in section 0112 by creditors that have chosen Betalingservice option 2 (both Automatic Payments and Payment slips). For creditors that have only chosen Betalingservice option 1 (Automatic Payments), RecordType022 is not in use.

RecordType042 holds the information to the debtor about the collection.

RecordType052 holds the extra text information to the debtor to specify the collection whether it is presented as an automatic payment or a payment slips.

RecordType062 holds extra text information to the debtor to specify the collection, if the collection is presented as a payment slips. For payment slips, RecordType062 overrides any text information from the subgroup RecordType052. On the other hand, if subgroup RecordType062 is not present, the text from subgroup RecordType052 will be used.

Dependencies

M601 Record is optional. This means that it is not possible only to send M620 Record containing enclosures in an XML. However it is NOT possible to send only M620 Record structure, if the information about the collections have been sent in a previous XML file.

RecordType022 is mandatory for creditors who use Betalingservice' option 2 (both automatic payments and Payment slips). RecordType022 is not in use for creditors who only use Betalingservice option 1 (only Automatic Payments). RecordType022 is also mandatory within section = 0117.

RecordType042 is mandatory. RecordType052

is optional for 0112 or 0117RecordType062 is

optional for 0112

Iterations Per debtor/collection

RecordType022 can occur 1 time.

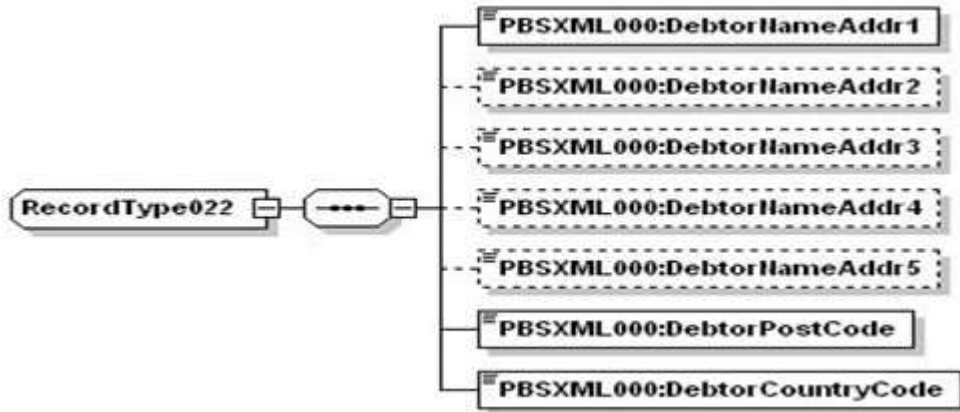
RecordType042 can only occur 1 time.

RecordType052 can occur 1 to 5.000 times.

RecordType062 can occur 1 to 5.000 times.

19. Overview RecordType022 in Subgroup M601Record

Schematic overview



Tag name	Mandatory/Optional
DebtorNameAddr1. The debtor's name/ address information. Refer to further description below	Mandatory
DebtorNameAddr2. The debtor's name/address information. Refer to further description below.	Refer to description below
DebtorNameAddr3. The debtor's name/address information.	Refer to description below
DebtorNameAddr4. The debtor's name/address information. Refer to further description below.	Refer to description below
DebtorNameAddr5. The debtor's name/address information. Refer to further description below.	Refer to description below
DebtorPostCode. The debtor's post code if the forwarding address is domestic.	Refer to description below
DebtorCountryCode. The debtor's country code if the forwarding address is international.	Refer to description below
Country code must be in accordance with the ISO-3166 standard's 2-character variable.	

Limitations concerning use of address information

The creditor has the option to deliver up to 5 lines of address information + the postal information (Post code and country code).

If the forwarding address is domestic, then a minimum of 2 address lines is required. If the forwarding address is international, then a minimum of 3 address lines is required.

If the Payment slips is for domestic forwarding, then Betalingsservice will construct an address line containing the post code and city name based upon the tag "DebtorPostCode". You still have to fill in DebtorCountryCode

If the Payment slips is for international forwarding, then the creditor must construct an address line containing eventual post code and city name.

Betalingservice is filling in the country name based upon the tag "DebtorCountryCode".

If the tag is not present, left blank or contains "DK", the country name will not be printed.

Remark: The subgroup is only used in the Betalingsservice option 2.

Domestic dispatches (Denmark) and dispatches abroad (outside Denmark)

If the payment slip is for dispatch in Denmark, Debtor's postcode must be completed with a Danish postcode and "Debtor's country" – with the value "DK", or left blank. The town name will be added by Betalingsservice based on the postcode.

If the payment slip is for dispatch outside Denmark "Debtor's postcode" – should contain "0000" (zeros) or be left blank and Debtor's country should contain the abbreviation for the country in question in accordance with the two-character variant of the ISO 3166 standard. A three (3) character field is used, which is left-aligned when a two-character country code is received, the final character being left blank. The country name is filled in by Betalingsservice based on the specified country code.

20. XML for RecordType022 in Subgroup M601Record

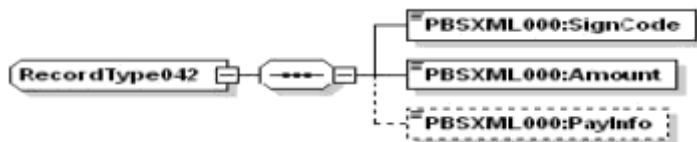
XML structure

```

<PBSXML000:RecordType022>
  <PBSXML000:DebtorNameAddr1>35-Char</PBSXML000:DebtorNameAddr1>
  <PBSXML000:DebtorNameAddr2>35-Char</PBSXML000:DebtorNameAddr2>
  <PBSXML000:DebtorNameAddr3>35-Char</PBSXML000:DebtorNameAddr3>
  <PBSXML000:DebtorNameAddr4>35-Char</PBSXML000:DebtorNameAddr4>
  <PBSXML000:DebtorNameAddr5>35-Char</PBSXML000:DebtorNameAddr5>
  <PBSXML000:DebtorPostCode>4-Char</PBSXML000:DebtorPostCode>
  <PBSXML000:DebtorCountryCode>2-Char</PBSXML000:DebtorCountryCode>
</PBSXML000:RecordType022>
  
```

21. Overview RecordType042 in Subgroup M601Record

Schematic overview



Tag name	Mandatory/Optional
SignCode. State here whether the collection contains: 0 = No amount. 1 = Payment to the creditor 2 = Payment to the debtor (Possible only for debtor's with automatic payment agreement)	Mandatory
Amount. If the field number 10 has code 1 or 2, then the field number 11 must be filled in with the amount in Ører (1/100 of a Danish Krone) and no sign digits.	Mandatory
If the field number 10 has code 0, then the field number 11 must be filled in with zeros.	

PayInfo. The creditors reference regarding the collection. The content of the field will be returned with the payment information from Betalingservice when the payment has been carried out.

Optional

Remark: For creditors using option 2, only the first 9 characters will be returned for payments that have been fulfilled by use of Payment slips

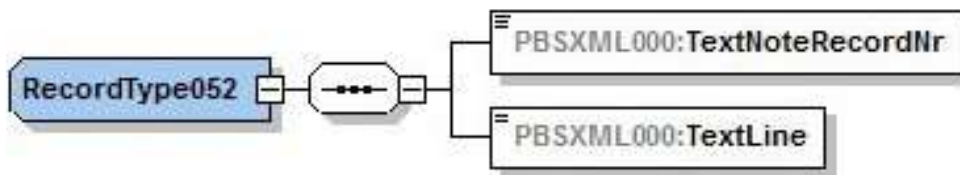
22. XML for Record Type042 in Subgroup M601 Record

XML structure

```
<PBSXML000:RecordType042>
  <PBSXML000:SignCode> 1-Numeric </PBSXML000:SignCode>
  <PBSXML000:Amount> 13-Numeric </PBSXML000:Amount>
  <PBSXML000:PayInfo> 30-Char </PBSXML000:PayInfo>
</PBSXML000:RecordType042>
```

23. Overview Record Type052 in Subgroup M601 Record

Remark: RecordType052 can only be used within section = 0112 and 0117.



Tag name	Mandatory/Optional
TextNoteRecordNr. The field = 00001-05000. From 1-5000 possible consecutive text records per collection. Each record contains 1 text line for the debtor's notification .	Mandatory

TextLine. Text line for the Debtor's List Of Payments (pre-notification). In the Betalingsservice option 2 solution, the text line will also be printed on the Payment slips unless text lines in the subgroup RecordType062 are present.

OBS: If you are using special characters as These 5, < > & ' ", has to be stated in a special way, as described here

<	<	less than	Mandatory
>	>	greater than	
&	&	& ampersand	
'	'	apostrophe	
"	"	quotation mark	

Example: If you want to have a textline with C&C, then you have to write C&C

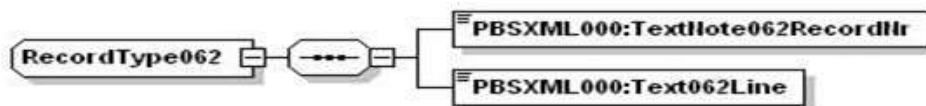
24. XML for RecordType052 in Subgroup M601Record

XML structure

```
<PBSXML000:RecordType052>
  <PBSXML000:TextNoteRecordNr>5-Numeric</PBSXML000:TextNoteRecordNr>
  <PBSXML000:TextLine>60-Char</PBSXML000:TextLine>
</PBSXML000:RecordType052>
```

25. Overview RecordType062 in subgroup M601Record

XML structure



TextNote062RecordNr. The field = 00001-05000. From 1-5000 possible consecutive text records per collection. Each record contains 1 text line for the notification of the debtor.

Mandatory

Text062Line. Text line for specification on the Debtor's Payment slips.

Mandatory

If the subgroup RecordType062 is not present in the XML, text lines¹ from subgroup RecordType052 will be used.

26. XML for RecordType062 in Subgroup M601Record

XML structure

```
<PBSXML000:RecordType052>  
  <PBSXML000:TextNoteRecordNr>5-Numeric</PBSXML000:TextNoteRecordNr>  
  <PBSXML000:TextLine>60-Char</PBSXML000:TextLine>  
</PBSXML000:RecordType052>
```

27. Guideline for use of PDF documents as enclosures

General limitations

The general limitations are as follows:

- The average size of PDF-enclosures in an XML file must not exceed 250 KB.
- The maximum size of PDF-enclosures in an XML file must not exceed 832KB
- We recommend that the total BS XML000 delivery-size will not exceed 0,5 GB
- The format of the PDF-enclosure must be A4 – portrait.
- The PDF document must not include elements with transparency.
- The PDF document must not contain ligatures.
- The font information must be included in each PDF document if the font(s) are not listed on Betalingsservice' positive list for fonts. For list of fonts, please refer to attachment 1.
- The margin on the left side is optional to be at least 20 mm. For other edges we recommend a margin at 10 mm.

Ways to minimize enclosures, risk of errors and processing time

In order to minimize the size of the PDF document, we recommend that you do not include information about fonts that ARE represented on the positive list.

Should you use a font that is not listed in the positive list, you are welcome to contact Betalingservice. We will then investigate if we are able to adapt your font.

Betalingservice is performing a validation of your enclosures in respect of fonts, format and size.

In order to minimize the risk of errors in your file, and thereby our requirements to correct and resend the file, we recommend that you perform those validations yourself.

Font types – PC related issues

There are some considerations you should make concerning your use of specific fonts in the PDF document.

For reasons of legibility and electronic visibility, you should bear in mind that your enclosures may be presented to your debtor as a paper based form or on the debtors PC because it has been stored in hisnetbank or in other digital universe.

Examples of font types that are supported by all PC operating systems:

- Times New Roman
- Arial
- Courier

If you select a different font type and it is not supported by the customer's PC operating system, there is a risk that the font type will be converted into a font that the customer cannot read in an electronic delivery.

Colours or monochrome

Colours can certainly be used. On paper enclosures colours will be translated into black raster. You must not use grey tones because of the print quality – use black & white raster instead. Colours will appear in online banking services and other digital universe.

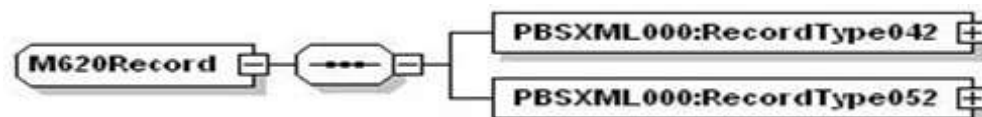
When using colours you must bear in mind that colours can appear very differently when they are displayed on a PC screen or printed on a black and white printer. It is therefore important to test the colours in advance.

Logos and images

When creating logos and images, you must always use vector graphics.

28. Introduction to M620Record - the enclosure information

XML structure



Enclosure information

The structure M620Record contains 2 groups of information which, together holds information about the enclosure and the link to the enclosure.

RecordType042 holds the informative text about the collection.

RecordType052 holds the information about the enclosure e.g. the name of the PDF document.

Dependencies

M620Record is optional. This means that it is possible only to send M601Record containing the collection information.

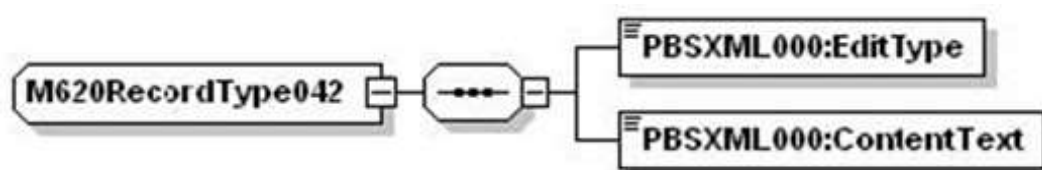
RecordType042 and RecordType052 are both mandatory, for M620 records.

Iterations

M620Record can occur up to 20 times per debtor. This means that it is possible to attach up to 20 enclosures to one collection.

29. Overview RecordType042 in subgroup M620Record

XML structure



Tag name	Mandatory/Optional
EditType. Only to be used after agreement with Betalingsservice	mandatory

ContentText. A text describing the enclosure ContentText	Mandatory
---	-----------

Is used to describe the art or purpose of the enclosure. The field therefore should contain a good explaining text so that the debtor can relate to the document from the overview in his netbank.

30. XML for RecordType042 in Subgroup M620Record

XML structure

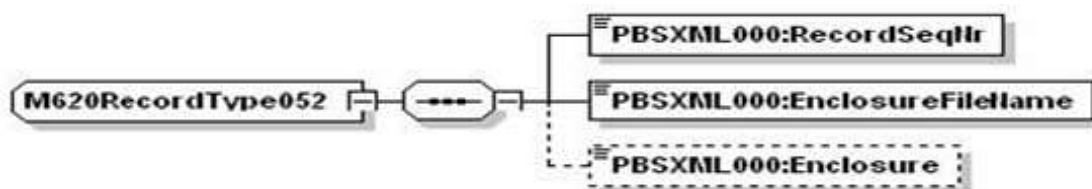
```
<PBSXML000:RecordType042>
  <PBSXML000:EditType>4-Numeric</PBSXML000:EditType>
  <PBSXML000:ContentText>30-Char</PBSXML000:ContentText>
</PBSXML000:RecordType042>
```

Iteration

The structure can occur up to 20 times in the subgroup M620Record. Each "RecordType042" must be succeeded by a "RecordType052".

31. Overview RecordType052 in Subgroup M620Record

XML structure



Tag name	Mandatory/Optional
RecordSeqNr. Record no. for the enclosure to the debtor. The tag is given a number increased by 1 from 0001 to 9999. This means that the maximum number of enclosures in one section is 9999. When starting a new subgroup of M620Record, start with 0001 again. It is legal to send more sections containing same PBS no.	Mandatory
EnclosureFileName. Unique name of the PDF file containing the enclosure.	Mandatory

Enclosure The PDF document encoded into Base64Binaryformat. Optional/Dependant

The Enclosure tag can not be present if the XML and enclosures are sent as a package.

The Enclosure tag with the encoded PDF enclosure must be present if you have opted for sending PDF enclosures as encoded elements in the XML.

32. XML RecordType052 in Subgroup M620Record

XML structure

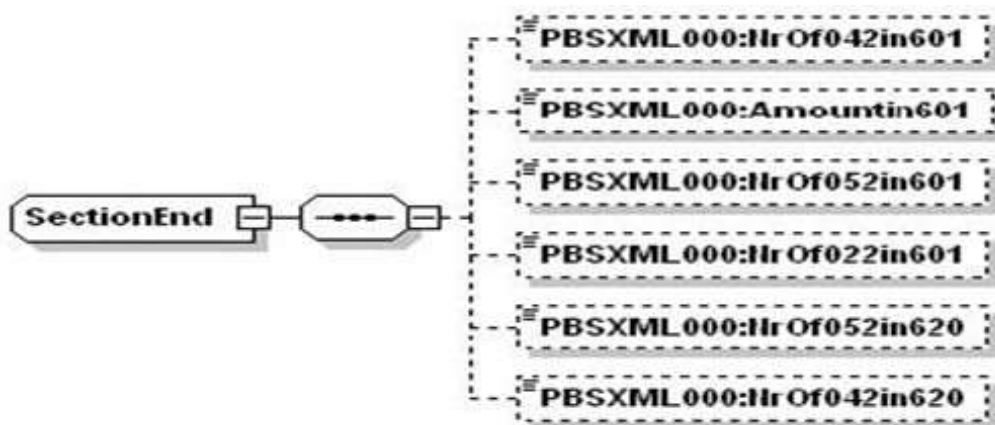
```
<PBSXML000:RecordType052>  
  <PBSXML000:RecordSeqNr> 4-Numeric </PBSXML000:RecordSeqNr>  
  <PBSXML000:EnclosureFileName> 26-Char </PBSXML000:EnclosureFileName>  
  <PBSXML000:Enclosure> Base64Binary </PBSXML000:Enclosure>  
</PBSXML000:RecordType052>
```

Iteration

The structure can occur 20 times in the subgroup M620Record. Each "RecordType052" must be preceded by a "RecordType042"

33. Overview SectionEnd

XML structure



Tag name	Mandatory/Optional
NrOf042in601. States the number of preceding RecordType042 records contained in subgroup M601Record. Only in use if number of RecordType042 > 0.	Optional/dependant

AmountIn601. The net amount in Ører (1/100 of a Danish Krone) and no sign digits in the preceding RecordType042 in subgroup M601Record. Only in use if number of RecordType042 > 0.

Optional/dependant

Total Amount means, Payments must be subtracted from the collection amount. Which means, the total amount is the sum of the payments deducted from the collection amount

NrOf052in601. States the number of preceding RecordType052 + RecordType062 in subgroup M601Record. Only in use if number of RecordType052 + RecordType062 > 0.

Optional/dependant

NrOf022in601. States the number of <PBSXML000:RecordType022> tags in subgroup M601Record. Only in use if number of RecordType022 > 0.

Optional/dependant

NoOf052in620. States the number of RecordType052 in subgroup M620Record. Only in use if number of RecordType052 > 0.

Optional/dependant

NoOf042in620. States the number of RecordType042 in subgroup M620Record. Only in use if number of RecordType042 > 0.

Optional/dependant

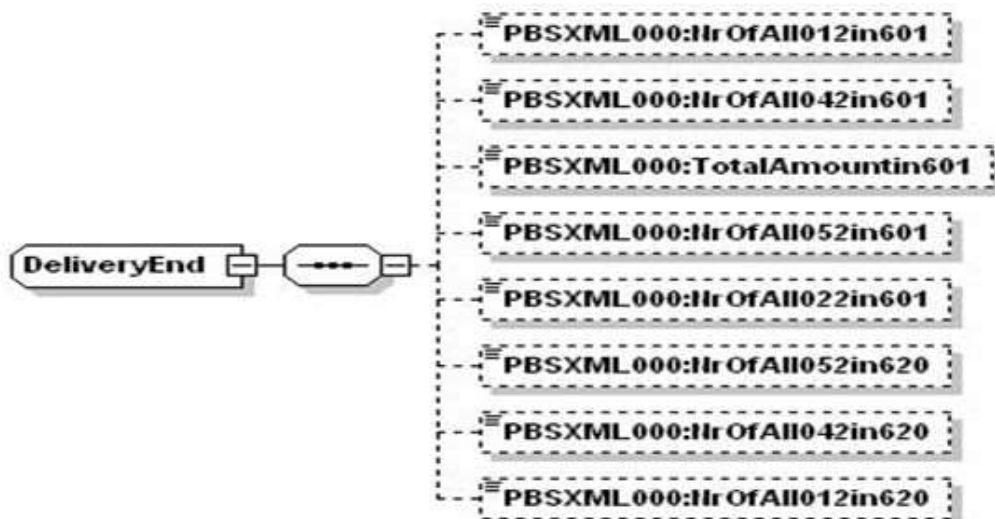
34. XML for SectionEnd

XML structure

```
<PBSXML000:SectionEnd>
  <PBSXML000:NrOf042in601> 11-Numeric </PBSXML000:NrOf042in601>
  <PBSXML000:AmountIn601> 15-Numeric </PBSXML000:AmountIn601>
  <PBSXML000:NrOf052in601> 11-Numeric </PBSXML000:NrOf052in601>
  <PBSXML000:NrOf022in601> 11-Numeric </PBSXML000:NrOf022in601>
  <PBSXML000:NrOf052in620> 9-Numeric </PBSXML000:NrOf052in620>
  <PBSXML000:NrOf042in620> 9-Numeric </PBSXML000:NrOf042in620>
</PBSXML000:SectionEnd>
```

35. Overview DeliveryEnd

XML structure



Tag name	Mandatory/Optional
NrOfAll012in601. States the number of preceding SectionStart that contains 1 or more M601Record. Only in use if this number is > 0.	Optional/dependant
NrOfAll042in601. States the number of preceding RecordType042 contained in the XML. Only in use if number of RecordType042 > 0.	Optional/dependant
TotalAmountIn601. The total amount in Ører (1/100of a Danish Krone) and no sign digits in the preceding RecordType042 the XML. Only in use if Number of RecordType042 > 0.	Optional/dependant
NrOfAll052in601. States the number of preceding RecordType052 + RecordType062 contained in the XML. Only in use if number of RecordType052 + RecordType062 > 0.	Optional/dependant
NrOfAll022in601. States the number of preceding <PBSXML000:RecordType022> contained in the XML. Only in use if number of RecordType022 > 0.	Optional/dependant
NoOfAll052in620. States the number of preceding RecordType052 contained in the XML. Only in use if number of RecordType052 > 0.	Optional/dependant
NoOfAll042in620. States the number of preceding RecordType042 contained in the XML. Only in use if number of RecordType042 > 0.	Optional/dependant
NrOfAll012in620. States the number of preceding SectionStart that contains 1 or more M620Record. Only in use if this number is > 0.	Optional/dependant

36. XML for DeliveryEnd

XML structure

```

<PBSXML000:DeliveryEnd>
  <PBSXML000:NrOfAll012in601><11-Numeric></PBSXML000:NrOfAll012in601>
  <PBSXML000:NrOfAll042in601><11-Numeric></PBSXML000:NrOfAll042in601>
  <PBSXML000:TotalAmountIn601><15-Numeric></PBSXML000:TotalAmountIn601>
  <PBSXML000:NrOfAll052in601><11-Numeric></PBSXML000:NrOfAll052in601>
  <PBSXML000:NrOfAll022in601><11-Numeric></PBSXML000:NrOfAll022in601>
  <PBSXML000:NrOfAll052in620><9-Numeric></PBSXML000:NrOfAll052in620>
  <PBSXML000:NrOfAll042in620><9-Numeric></PBSXML000:NrOfAll042in620>
  <PBSXML000:NrOfAll012in620><9-Numeric></PBSXML000:NrOfAll012in620>
</PBSXML000:DeliveryEnd>

```

Iteration

The subgroup must occur 1 time within the XML structure

37. Receipts from Betalingservice

Introduction

When your XML file has been received by Betalingservice, a number of validations will take place. We send you a number of receipts which enables you to keep updated on the processing status of your file.

In this chapter you will find receipts concerning the

- Pre validation receipt for the ZIP-file
- Pre validation receipt for PDF enclosures
- Transfer receipt for enclosures
- Validation receipt for processing of enclosures
- Transfer receipt for collections
- Validation receipt for collections

Please remark, that all receipts from Betalingservice must be positive. If just one of them is negative, the processing of your XML file will stop. In that case, you should contact us before resending the XML file.

All receipts can be linked to your XML file with the data element "DeliveryID", that you have stated in the XML file. DeliveryID is part of the data in all receipts.

38. Pre validation of the Zip file

Introduction

Upon arrival, the ZIP file is unzipped into the XML file and the belonging enclosures (if any).

In the first validation step, the XML file is inspected for correct structure – i.e. that mandatory tags are present.

The result of the validation is shown in a receipt to the customer, which can be fetched from the data supplier's mailbox.

File name convention

The name of the file is:

T.<originalfilename><timestamp>.txt where “T.”

is a constant

<originalfilename> is the filename of the ZIP file, you sent to Betalingservice.

<timestamp> is a date and time string attached by Betalingservice, indicating the processing date and time in Betalingservice

“.txt” is a constant.

Data

The receipt contains 3 transactions. The information is described in the table below.

Data	Length	Data type
1 Original XML file name	40 (plus the .Xml extension)	Numeric
2 Status OK = XML has passed validation Not OK = XML has not passed validation	6	Alfa numeric
3 Message – a text describing the status. Refer to table below	100	Alfa numeric

Message

In record 3 of the receipt you can find an explanation to the status code (OK / Not OK).

	Text	Meaning
1	Customer must have an agreement with PBS	No agreement for sending enclosures has been found. Contact Betalingservice to make agreement
2	<tag name> is mandatory	A mandatory tag is missing in the XML
3	<tag name> is mandatory for M601	A mandatory tag to process subgroup M601Record is missing
4	<tag name> is mandatory for M620	A mandatory tag to process subgroup M620Record is missing
5:	<tag name> is mandatory for M601RecordType022	A mandatory tag in the subgroup is missing
6:	<tag name> is mandatory for M601RecordType042	A mandatory tag in the subgroup is missing
7	<tag name> is mandatory for M601RecordType052	A mandatory tag in the subgroup is missing
8	<tag name> is mandatory for M620RecordType042	A mandatory tag in the subgroup is missing

9	<tag name> is mandatory for M620RecordType052	A mandatory tag in the subgroup is missing
10	M620 tag cannot exist without PDF attachments	The XML contains informations about enclosures, but no enclosures were found in the package
11	Number of M620 tags within a Debtor should not be greater than 20	Maximum enclosures to one Debtor is 20
12	Number of 052 tags within a M601 should not be greater than 5000	Maximum of text lines specifying one collection is 5.000
13	Number of M620RecordType052 within a Section should not be greater than 9.999	Maximum number of enclosures within a section is 9.999.
14	Sections inside an XML file should be maximum 9000	Maximum number of sections is 9.000
15	PDF attachments cannot exist without M620	There were enclosures in the package, but no corresponding specification in M620RecordType052
16	More than one XML file exists	The package contained more than one XML file, which is not allowed.
17	Zip file <file name> is successfully sent to PDF Merge Enclosure for further processing	The XML has been validated correct. Processing is continuing. Wait for further receipts from Betalingsservice.
18	<tag name> count value does not match the original tag count in the XML	Counting the number of detail information results in another value than indicated in <tag name>

Sample

AB_PBSXML000201002019291780010031001PROD.xmlOK

Input file is successfully processed

39. Pre validation of the enclosures

Introduction

Second step in the validation of the ZIP file is to validate the information concerning the enclosures and the enclosures themselves. When the validation is completed, a receipt is generated.

The result of the validation is shown in a receipt to the customer, which can be fetched from the data supplier's mailbox. The received will be format with code page UTF-8

File name convention

The filename has .txt as suffix.

The file name is generated with this standard:

Data name	Length	Comment
LayoutID	15	Always "T.AB_BILAGPDF0001"
Deliverydate	8	YYYYMM
CVR-no	8	DataSupplierCVRNo from XML file
Delivery ID	10	DeliveryID from XML file
TEST/PROD	4	Specify "TEST" if the test is for testing purpose – otherwise specify "PROD"

Data

The receipt contains 7 transactions. The information is described in the table below.

Record no.	Data	Length	Data type
1	DeliveryID from the XML file	10	Numeric
2	Status OK = XML has passed validation OK = XML has not passed validation	6	Alfa numeric
3	Message – a text describing the status. Refer to table below	100	Alfa numeric
4	Number of RecordType052 stated in DeliveryEnd in the XML	10	Numeric
5	Number of PDF Files (counted by validator)	10	Numeric
6	Number of RecordType052 in the XML (counted by validator)	10	Numeric
7	Average PDF size	10	Numeric

Message specification

In record 3 of the receipt you can find an explanation to the status code (OK / Not OK).

Message text	Meaning
The file <EnclosureFileName> does not exist	You have entered a value in the tag EnClosureFileName, but a PDF-document with that name could not be found
Average PDF size is to large <avg_PDF_size>	The system limitation is that the average file size for the PDF-documents in the zip-file is 250 KB. You have exceeded this limit.
There is an error in the input folder. The zip file cannot be unzipped	Internal error during Betalingservice' processing. Contact Betalingservice
There is an error in your delivery. M620 information is missing. Please contact Document Services for further details	Internal error during Betalingservice' processing. Contact Betalingservice
The PDF file name is greater than 26.	Maximum length of file name is 26 characters
The filename should not start with "M620". Please refer the file naming conventions	The PDF file name cannot start with "M620".
There is an error in your delivery. Please check the counts.	The number of tags "EnclosureFileName" does not match the number of PDF documents in the zip file.

Number of key records (042) and data records (052) are not the same.	The subgroup M620Record must contain the same number of M620RecordType042 and M620RecordType052.
The number of 052 specified in BS092 is not correct	The calculated number of "M620RecordType052" in the tag NrOf052in601 in subgroup Section End is not correct.
Both number of 042 records and 052 records specified in BS992 is not correct	NumberOfAll042in620 and NumberOfAll052in620 are not calculated correct.
The file <EnclosureFileName> repeats more than once in the M620 File. Please check the M620 file	EnclosureFileName must be unique within the XML.
A paper format other than A4 is found. We can't process the file	The PDF document must be in size A4
Your delivery has been successfully forwarded to the Document Services	The file has been processed successfully

Sample

```

0010031001 Leverance ID
OK          Status
0000000001 Antal bilag angivet i BS992 feltet
0000000001 Antal medsendte PDF filer
0000000001 Antal BS052 felter
0000000065 KB Gennemsnitlig PDF fil størrelse
0000000085 KB Maksimale PDF fil størrelse
Meddelelse: Der er ikke fundet fejl i leverancen

```

40. Transfer receipt for enclosures

Introduction

When the pre validation of the enclosures has ended with success, the enclosures will be transferred to the next step in the workflow. Having done that, Betalingsservice issues a transfer receipt.

Naming Convention

The transfer receipt starts with "T" followed by a 7 digit identification number generated by Betalingsservice. The suffix is always "BM5"

Data

The file contains one record with this structure

Data name	Length	Comment
Record type	8	Always "PBCNET40"
System	3	Always "BM5"
Filler	1	For Betalingsservice internal use
DeliveryID	8	The 8 rightmost bytes from the tag "DeliveryID"
Filler	8	For Betalingsservice internal use
Date and time	12	Date and time for receiving of collections – YYMMDDHHMMSS
Validation code	1	+ = transmitted with success = transmitted without success
Filler	2	Always "PN"
Message nr	2	
Text	35	Message connected to message nr.

Sample

PBCNET40BM5 10031001 100310082610+PN00DATA ACCEPTERET

41. Transfer receipt for enclosures

Introduction

When the pre validation of the enclosures has ended with success, the enclosures will be transferred to the next step in the workflow. Having done that, Betalingsservice issues a transfer receipt.

Naming Convention

The transfer receipt starts with "T" followed by a 7 digit identification number generated by Betalingsservice. The suffix is always "BM5"

Data and sample

The receipt start with a PBCNET record built as the PBCNET40 transaction followed by specificationn for the collections

```
PBCNET41BM5 10031001 100310082610+PNOODATA MODTAGET
*****
*
* DATA TIL BETALINGSSERVICE
*
*
* LEVERANDØR : 01929178 SYSTEM : BM5 DATO : 100310 TID : 0826
*
* LEVERANCETYPE M620.
* TILDELT LEVERANCE-NUMMER : 3101428001
*
*
* ANTAL RECORDS LÆST I LEVERANCE : 6
* ANTAL BILAG I LEVERANCE : 1
* ANTAL SEKTIONER I LEVERANCE : 1
*
* BETALINGSTYPE:
* 01 - INDBETALINGSKORT
*
*
* LEVERANCEN ER ACCEPETERET
*
*
*
*****
```

42. Transfer receipt for collections

Introduction

The collections from the XML will be sent to a new workflow if the XML was pre validated with success and the validation of the enclosures was successful.

Remark: If the validation steps above were not successful, you will not receive the transfer receipt for collections.

File Name convention

The name of the file starts with “T” followed by a 7-digit identification created by Betalingservice. The suffix of the file equals the tag “DataSupplierSysCode” in the original XML.

Data

The file contains one record with this structure

Data name	Length	Comment
Record type	8	Always “PBCNET40”
System	3	The value from the tag DataSupplierSysCode
Filler	1	For Betalingservice internal use
DeliveryID	8	The 8 rightmost bytes from the tag “DeliveryID”
Filler	8	For Betalingservice internal use
Date and time	12	Date and time for recieval of collections – YYMMDDHHMMSS
Validation code	1	+ = transmitted with success = transmitted without success

Filler	2	Always "PN"
Message nr	2	
Text	35	Message connected to message nr.

Sample

PBCNET40BS1X10031001 PAYLNK100310082313+PN00DATA ACCEPTERET

43. Validation receipt for collections

Introduction

This receipt is generated when your collections have been validated by Betalingservice. Remark: This receipt will only be generated if the previous validation steps were successful.

Naming convention

The name of the file starts with "V" followed by a 7-digit identification created by Betalingservice. The suffix of the file equals the tag "DataSupplierSysCode" in the original XML.

Data and sample

The receipt start with a PBCNET record built as the PBCNET40 transaction followed by specification for the collections

```

PBCNET41BS1X10031001 PAYLNK100310082313+BS00 LEVERANCE ACCEPTERET
*****
*
* DATA TIL BETALINGSSERVICE:
*
*
* TILDELT LEVERANCE NR: 3101414001
*
* LEVERANDØR: 01929178 SYSTEM: BS1 TIDSPUNKT: 100310 - 082313
*
* ANTAL RECORDS: 000014
*
* BS00: LEVERANCE ACCEPTERET
*
* OPTELLING   SEKTIONER   TEKSTANTAL   BELØBSANTAL   BELØBS TOTAL
*
* LEVERANCE           1           3           1           0,01
*
* LEVERANCEN ER ACCEPTERET
*
*
*****

```

44. Attachment no. 1 – Font catalogue

Current fonts

Underneath you see the current list of Betalingsservice' font library. If you use a font that is not present, you are welcome to contact us. We then will investigate if it is possible to include that font.

REMARK that the fonts only are supported in ANSI standard.

Arial	Georgia Italic	Symbol
Arial Bold	Georgia Bold Italic	Tahoma
Arial Italic	Impact	Tahoma Bold
Arial Bold Italic	Latha	Technic
Calibri	Lucida Sans Unicode	Times New Roman
Calibri Bold	Mangal	Times New Roman Bold
Cambria Bold	Marlett	Times New Roman Italic
Comic Sans Ms Bold	Monospace	Trebuchet MS
Complex	Monospace Bold	Trebuchet MS Bold
Courier New	Monospace Italic	Trebuchet MS Italic
Courier Bold	Monospace Bold Italic	Trebuchet MS Bold Italic
Courier Italic	Mv Boli	Tunga
Courier Bold Italic	OCRB	WTA Symbol
Estrangelo Edessa	Palatino Linotype	Universal Math 1 BT
Franklin Gothic Medium	Palatino Linotype Bold	Verdana
Franklin Gothic Medium Italic	Palatino Linotype Bold Italic	Verdana bold
Gautami	Raavi	Verdana Italic
Georgia	Shruti	Verdana Bold Italic
		Webdings



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