



Nets Denmark A/S

Lautrupbjerg 10
P.O. 500
DK-2750 Ballerup

T +45 44 68 44 68

F +45 44 86 09 30

www.nets.eu

CVR-nr. 20016175

Specification for Data Suppliers and Software Suppliers

PBSXML000

Collections

and related information to

Betalingservice

Version 4.0 dated February 22th. 2011

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Preface

Content and purpose

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

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

- Automatic Payments
- Manual Payment Forms
- 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	Section number	Alteration	New function implemented
2.0	Various	Various	<p>Added new chapter "Guideline for use of PDF documents as enclosures"</p> <p>Further specification concerning supported fonts in the enclosure – only ANSI types are supported.</p> <p>Added 3 new facilities</p> <ul style="list-style-type: none"> • Option to embed the PDF as an encoded file inside the XML • Option to inform PBS, that the PDF enclosures have been verified in respect of size, format and fonts. • Option to specify text lines that only are to be used when collection is delivered as an In Payment Form. <p>Added specification for receipts that are generated by PBS. Refer to chapter "Receipts from PBS."</p>

			Besides of this only editorial changes most to differentiate between words "Collection" and "Payment".
3.0		<p>Section 0118 implemented</p> <p>Restrictions concerning data in the XML structure</p> <p>Sequence for receipts has changed</p> <p>Change in spec. of Transfer Receipt for enclosures</p> <p>New XSD</p> <p>Name change from PBS to Nets</p>	<p>New information structure for collections has been implemented. The structure enables the creditor to report debtor's CPR- or CVR-number in order to enhance the possibility for Betalingsservice to find debtors agreement in his netbank concerning "Elektronisk indbetalingskort". The new structure is optional.</p> <p>The option only to send enclosures in an XML file has been removed. Nobody has made use of this option and since it probably will cause more problems than ease the process for the creditor, it has been decided to remove it.</p> <p>In order to optimize the processing of the XML file, the validation sequence has be changed.</p> <p>Data element "System" has changed value from "BM2" to "".</p> <p>A new XSD has been uploaded. You can still use both old XML and old XSD because the XML changes in this version are optional.</p> <p>PBS, Norwegian BBS and Teller has merged into Nets A/S. As a consequence company name has been changed in the manual.</p> <p>This change is not marked with revision marks.</p> <p>Data elements containing the name "PBS" are NOT changed.</p>
3.1		Correction concerning value in data element "System"	The value in data element "system" in the Transfer Receipt and Validation Receipt for enclosures were described in a false way. The the correct value is "BM5"
4.0		New tags implemented	<p>New services with implementation date 1. of May 2011</p> <p>Betalingservice will be able to place payment slips</p>

			<p>in a debtor's eBoks provided that:</p> <ul style="list-style-type: none"> • The debtor has opted for use of this facility AND the debtor has no agreement about automatic payment or EIK. • Creditor has made an agreement with eBoks and Nets about use of eBoks • Creditor fills out the tag with debtor's CVR/CPR number. <p>Both the payment slip and optional enclosures will be</p> <p>In order to support new services, new tags are added and the tag DebtorCVROrCPRNr is now also usable for section 0112 and 0117.</p> <p>The new tag MailServiceLevel can be used if the creditor wants to ensure that payment slips will be delivered to debtor within 2 days. The tag is optional.</p> <p>The tag MandatoryPrint is used if the creditor wants to force a payment slip to be printed and sent by mail – even if the debtor has opted for EIK or delivery in eBoks.</p>
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Contact information

If you have any questions concerning the Manual, please contact:

Nets Danmark A/S
 Att. Bent Overgaard Johansen
 Lautrupbjerg 10
 Postboks 500
 Ballerup

Phone: +45 44 89 27 76

Creditor's options for usage of Betalingservice

The options

The creditor has 2 main options when using Betalingservice:

- **Automatic payments only (option 1)**, which only enables creditor to bill debtors using automatic payments.
 - **Automatic payments + manual payments (option 2)**, which enables creditor to bill debtors using automatic payments and Manual Payment Forms to the debtors who have not registered an automatic payment agreement. Using this option, creditor also can produce payment with Manual Payment Forms as predefined payment method.
-

Option 1: Automatic payments only

The basis for creating the XML000 file is the information about debtor agreements for automatic payments. Nets is sending this information to the creditor using the agreement number in Betalingservice as key. The creditor is using this information to update his debtor registry.

The debtor registry is the basis for creating payment data to the debtors with an automatic payment agreement. Creditor then attaches the collection information for the relevant debtors and sends the XML back to Nets.

Important deadline

Collections can be sent continuously and up to 180 days in advance of the due date. However the deadline for sending data is

No later than 09.00 on the 6th last banking day before the due month

More debtor groups

If the creditor has a need to divide his debtors into specific groups, this can be done by using "Debtor Groups". When sending data for more debtor groups, the data file must be divided into sections- one for each debtor group.

Only one collection pr. debtor

It is only possible to create one collection per debtor per due date, but it is legal to send more collections to the same debtor with different due dates.

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.

Replacement of collections

Replacement of collections is not supported by this version of the XML structure.

Option 2: Automatic and manual payments Creditors using option 2 do not receive agreement information from Betalingservice. The creditor delivers information of all his debtors that are to be billed, including the debtors name and address. Thereby the creditor does not need the information from the M603 file.

Betalingservice separates collections that can be done automatically based upon the customer number within the creditor. Debtors who have not entered an agreement concerning automatic payments will have their invoice sent as a Manual Payment Form. The debtor receives the Manual Payment form as a paper based invoice or as an electronic version in his netbank.

Important deadline Collections can be sent continuously during the month before the month of due date. However the deadline for sending data is

No later than 09.00 on the 8th last banking day before due month

More debtor groups If the creditor has a need to divide his debtors into specific groups, this can be done by using "Debtor Groups". When sending data for more debtor groups, the data file must be divided into sections- one for each debtor group.

Only one collection per debtor It is only possible to create one payment per debtor per due date.

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.

Replace collections Replacement of former sent collections is not possible in this solution.

Payment forms Debtors who have no agreement concerning automatic payment via Betalingservice will receive a Manual Payment Form (FI-kort) with transaction code 71.

The conditions of the Creditor agreement

Parties involved

The creditor's registration with Betalingservice takes place via the creditor's Danish bank.

The Creditor fills in the Creditor Agreement containing the creditor's general company information. The creditor and his bank signs the Creditor Agreement and send it for registration in Betalingservice.

The Creditor Agreement

The basic agreement is the Creditor Agreement. By signing this agreement, the parties accept "General rules and terms for payment transactions via Betalingservice ". The general rules and terms are printed at the back page of the Creditor Agreement form BS01.

The creditor agreement form BS01, must be filled in with general company information like CVR number (company registration no.), name, address, telephone number etc., as well as the creditor's bank account.

General Creditor Information

Furthermore the creditor's general information must contain specification of the debtor group number(s) of free choice, the data supplier, the construction of the customer number (number of characters and eventual modulus control), the due payment months, the bank account number for the credit and debit of the collected amounts, the charge account etc.

If the creditor prefers to divide his debtors in groups, a BS01 form must be filled in with general information for each debtor group.

The BS01 form with the creditor's general information is filled in, in concert with a consultant from Betalingservice.

Documentation for registration

When Betalingservice receives the signed agreements, the general information is registered in the Betalingservice registry. The creditor is assigned a unique identification - the PBS number. The PBS number is used in the communication between the creditor and Betalingservices as well as when the debtors register automatic payment agreements.

A documentation sheet containing a specification of the creditor's general information registered via the Creditor Agreement will be printed and sent to the creditor.

Data Supplier agreement

The Data Supplier Agreement is the basis for the registration of the media specifications, which shall be used in the communication between the data supplier and Betalingservice.

Furthermore the data supplier must inform Betalingservice of the name,



the address, the telephone number, the contact person as well as the bank's branch registration number and bank account number.

The form (DL01) should be filled by support from a consultant from Betalingservice, especially concerning the choice data communication.

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. For the data suppliers there are 6 delivery types in Betalingservice: 3 deliveries to Betalingservice and 3 deliveries from Betalingservice. The 6 delivery types are described below.

Deliveries to Betalingservice

Delivery PBSXML000 – Collections and related information to Betalingservice in XML structure and option to attach PDF documents for enclosure.

(This delivery contains same information as delivery 0601 and 0620 – refer to specific manuals.)

Deliveries from Betalingservice

Delivery 0602 – Payment Information From Betalingservice

Delivery 0603 – Agreement Information From Betalingservice

Delivery 0605 – Updating Transactions to Betalingservice

Delivery 0621 – The Electronic Creditor Information List

For further information about those deliveries, refer to specific manuals.

Delivery structure

The overall structure for the 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. A test can be arranged with PBS Technical Support, telephone 4489 7373.

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 XML000

Having sent the the XML file and PDF enclosures, Nets 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, Nets 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 Attachment 2 for a full specification of receipts.

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. 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 zeroes. The tag is described with "<length> - Numeric" in the XML-sample. <Length> defines the exact length.

Alphanumeric tag

A tag that can hold both numeric and alfa data (0-9 + A-XYZÆØÅ). The tag is described as "<max.lenght> - Char" in the XML-sample. <Max.lenght> defines the maximum length. An alphanumeric 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.

Package file structure

Definitions

A package is a zipped file containing the XML file and optional PDF documents.

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.

File structure for XML with embedded PDF

Definition

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.

Naming conventions for deliveries to Nets

General naming conventions

When you send the file to Nets, 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 CVR-number	8	Numeric
Delivery ID	<p>Customers reference</p> <p>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 Nets for audit reasons.</p>	10	Numeric
TEST or PROD	<p>Test or Prod identification</p> <p>"Prod" means that the package will be used for production purpose.</p> <p>"Test" means that the enclosures and collections will be used for test purpose. You should contact Nets before sending test files to Nets.</p>	4	Alpha

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 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”

XML structure – standards and limitations

Schematic overview The diagram below shows the overall structure that must be used, when the XML file for Nets 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 M601 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 RecordType062.
- 3: In the M620 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

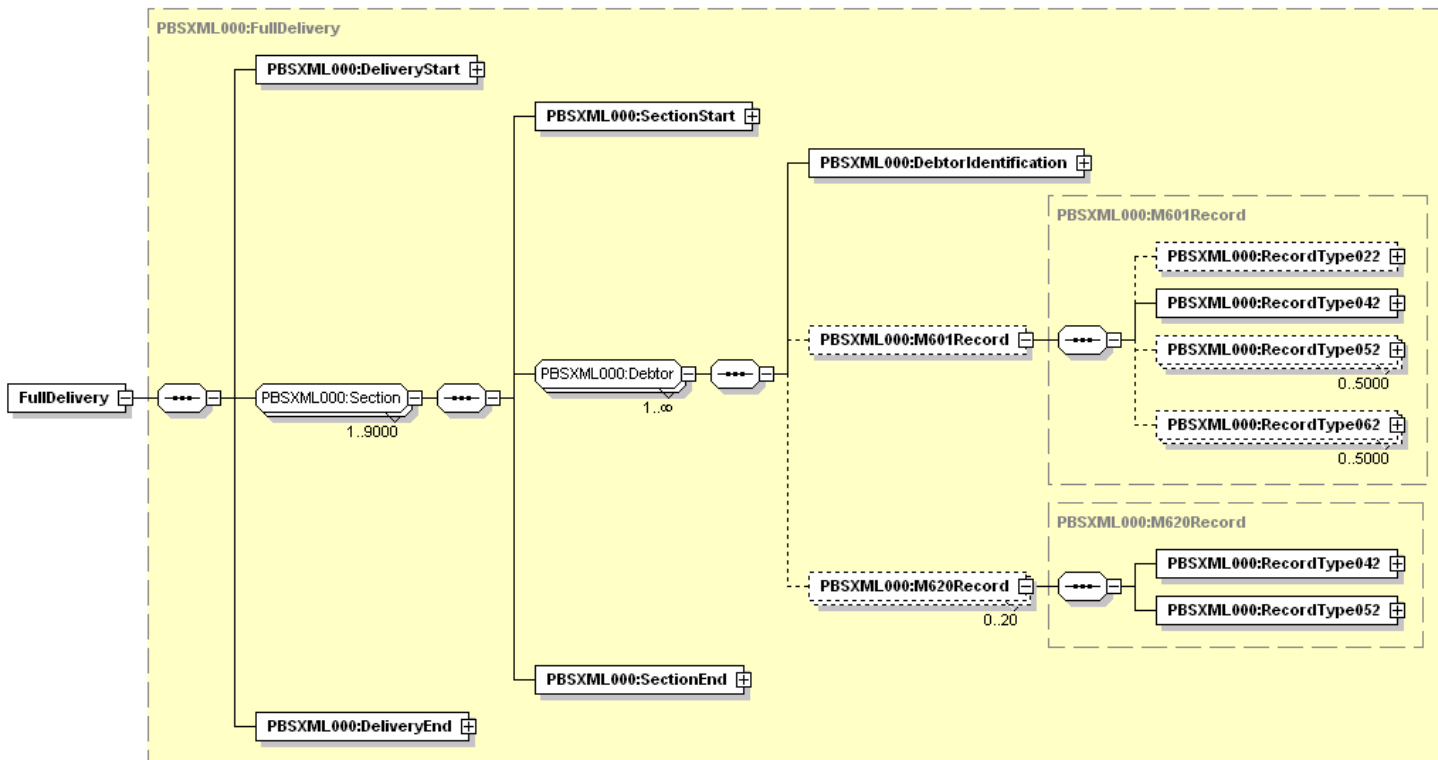
 **DataSupplierSysCode** A group or tag, which is in a box with unbroken lines, is mandatory.

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

 **M620Record**
0..20 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

Overall schematic overview



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 CP850 or ISO8859-1)"?>
<PBSXML000:FullDelivery
  Xsi:schemalocation="Refer to text below"
  xmlns:PBSXML000>
  <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:CreditorBankRegNr>4-Numeric</PBSXML000:CreditorBankRegNr>
    <PBSXML000:CreditorBankAccNr>10-Numeric</PBSXML000:CreditorBankAccNr>
    <PBSXML000:HeadLine>60-Char</PBSXML000:HeadLine>
  </PBSXML000:SectionStart>

  <PBSXML000:DebtorIdentification>
    <PBSXML000:DebtorCustomerNr>15-Char</PBSXML000:DebtorCustomerNr>
    <PBSXML000:AgreementNr>9-Numeric</PBSXML000:AgreementNr>
    <PBSXML000:EANLocation>13-Numeric</PBSXML000:EANLocation>
    <PBSXML000:DuePayDate>DDMMYYYY</PBSXML000:DuePayDate>
    <PBSXML000:DebtorCVRorCPRNr>10-numeric</PBSXML000:DebtorCVRorCPRNr>
    <PBSXML000:MailServiceLevel>1-numeric</PBSXML000:MailServiceLevel>
    <PBSXML000:MandatoryPrint>1-numeric</PBSXML000:MandatoryPrint>
    <PBSXML000:DebtorOCRId>16-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:M601Record>
</PBSXML000:FullDelivery>
```

```

<PBSXML000:RecordType062>
  <PBSXML000:TextNote062RecordNr>5-numeric</PBSXML000TextNote062RecordNr>
  <PBSXML000:Text062Line>60-Char</PBSXML000:Text062Line>
</PBSXML000:RecordType062>

</PBSXML000:M601Record>

<PBSXML000:M620Record>
  <PBSXML000:RecordType042>
    <PBSXML000:EditType>4-Numeric</PBSXML000:EditType>

    <PBSXML000:ContentText>50-Char</PBSXML000:ContentText>
  </PBSXML000:RecordType042>

  <PBSXML000:RecordType052>
    <PBSXML000:RecordSeqNr>4-Numeric</PBSXML000:RecordSeqNr>
    <PBSXML000:EnclosureFileName> 31929-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 :

<http://pbs-erhverv.dk/online/xml/bs/pbsxml000bigmax.xsd>

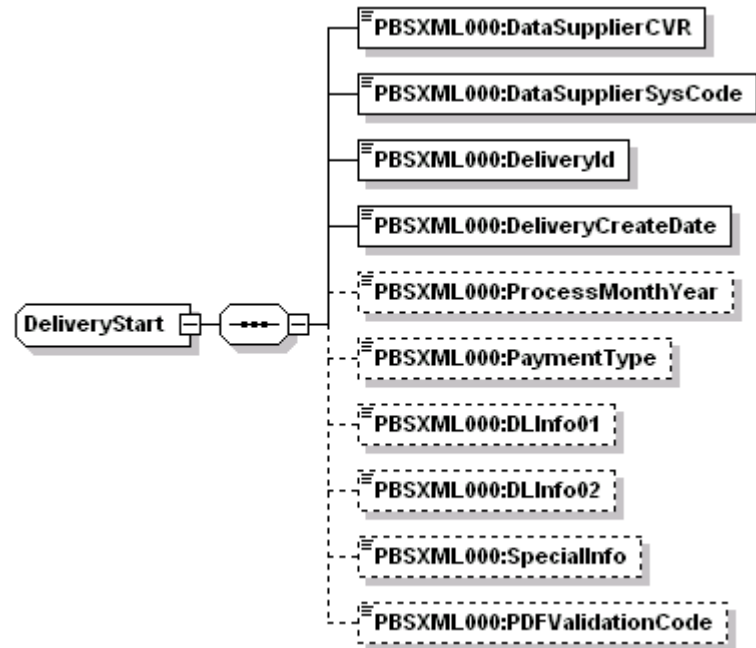
Since some java tools only can smaller values in the XSD parameter "maxoccurs", PBS has generated an alternative XSD, where this value of "maxoccurs" for the group "Section" is set to 4.500 and the value of "maxoccurs" for the RecordType052 in M601 record also is set to 4.500.

The scema location for this XSD is :

<http://pbs-erhverv.dk/online/xml/bs/pbsxml000smallmax.xsd>

Overview "DeliveryStart"

Schematic overview



Tag name	Mandatory/Optional
DataSupplierCVR. The data supplier's CVR/SE number.	<i>Mandatory</i>
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.	<i>Mandatory</i>

<p>DeliveryID. To be filled out at data supplier's free choice. The data supplier's reference for this delivery.</p> <p>DeliveryID can be used to identify the receipts sent back from Nets to the data supplier.</p> <p>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.</p> <p>In order to benefit from the option to track your file with receipts from Nets, you should only use the 8 rightmost characters to identify your file – so you should leave the 2 first characters as "00".</p>	<p><i>Mandatory</i></p>
<p>DeliveryCreateDate. Can be filled out with zeros or the date of creation of this delivery</p>	<p><i>Mandatory</i></p>
<p>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 Nets.</p> <p>Remark If the XML file contains attachments for more than one month, you must indicate the first of those months.</p> <p>The tag must not be present if no M620Record Groups are present in the XML.</p>	<p><i>Optional/ dependent on SectionStart group, SectionNr Tag</i></p>
<p>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.</p> <p>The value of the code indicates to which kind of collection the enclosure must be attached. Refer to next page for legal values.</p>	<p><i>Optional/ dependent on SectionStartGroup, SectionNr Tag</i></p>
<p>DLInfo01. Extra specification concerning the XML-file. This tag substitutes the data element from the PBCNET record – byte 23-28.</p>	<p><i>Optional</i></p>
<p>DLInfo02. Extra specification concerning the XML-file. This tag substitutes the data element from the PBCNET record – byte 37-44</p>	<p><i>Optional</i></p>
<p>DLSpecinfo Only to be used after agreement with Nets</p>	<p><i>Optional</i></p>
<p>PDFValidationCode : A code designated to the data supplier by Nets after the data supplier has verified, that the PDF enclosures have been validated in compliance with Nets requirements. If no agreement has been made concerning this, the tag can not be used.</p> <p>Please refer to chapter "Guidelines for use of PDF documents as enclosures".</p>	<p><i>Optional</i></p>

**PaymentType –
legal values**

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

For SectionNr = 0112 :

Payment-Type	Meaning that enclosures will be attached to:
00	All payment types <ul style="list-style-type: none">• Automatic payments• Payments using paper based in payment forms• Electronic in payment forms
02	Payments using in paper based payment forms
03	Automatic payments
04	Electronic in payment forms
06	In payment forms – both paper based and electronic

For SectionNr = 0117 and 0118:

PaymentType	Meaning that enclosures will be attached to:
01	Paper based in payment forms
05	Electronic in payment forms
07	In payment forms both paper based and electronic

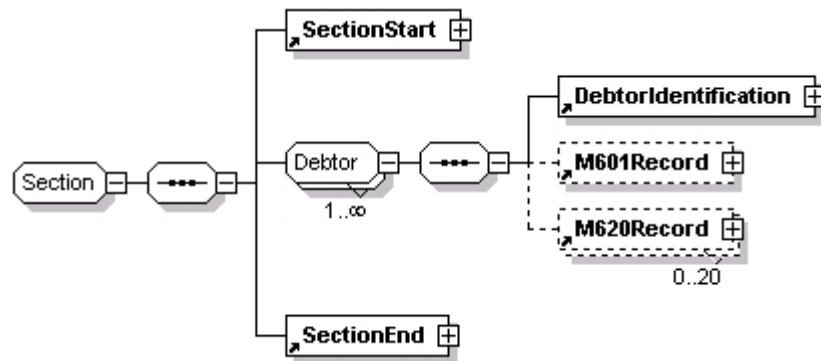
XML specification DeliveryStart

XML structure

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

Overview "Section"

Schematic overview

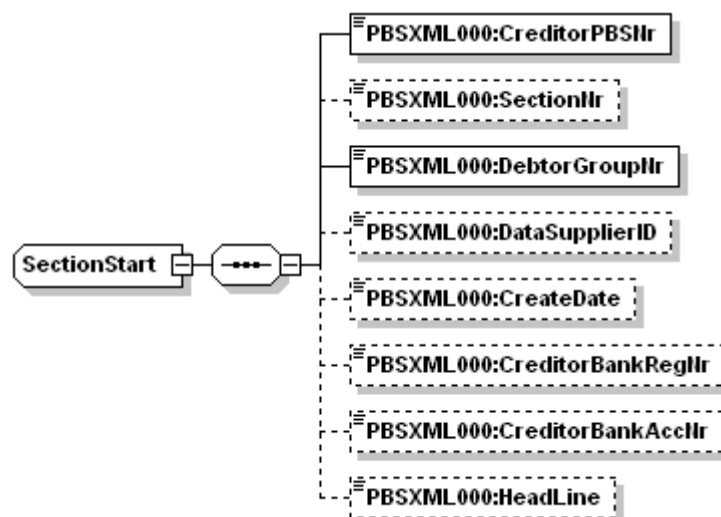


Further description

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 SectionEnd, that contains totals for the detail information.

Overview "SectionStart"

Schematic overview



Tag Name	Mandatory/Optional
CreditorPBSNr. The creditor's PBS number.	Mandatory
<p>SectionNr. The section number = 0112 is used for collections in general.</p> <p>The section number = 0117 is used for collections that are pre defined to be printed as Manual Payment Forms. Section number 117 can only be used by creditors who have agreed to use Betalingservice option 2.</p> <p>The section number = 0118 is used for collections that are pre defined to be delivered as EIK as priority no. 1. Using section number 0118 also gives creditor an option letting Nets print in payment forms that could not be presented as EIK.</p> <p>The tag is only in use if the XML contains M601Record(s).</p>	Optional/Dependant
DebtorGroupNr. As a minimum, the creditor must use one debtor group. The number can be chosen freely by the creditor. In the need of separating the debtors, more debtor groups can be set up. Each debtor group can have its own specific clearing account.	Mandatory
DataSupplierID. The creditor's eventual identification with the Data Supplier. The field is for the data supplier's free use.	Optional

<p>CreateDate. The field = 00000000 or the creation date of the delivery (ddmmyyyy).</p>	Optional
<p>CreditorBankRegNr. The creditor's bank's branch registration number. For the credit or debit of the transactions in the section.</p> <p>The tag is mandatory if the XML contains M601Record(s) section 0112 or 0117– otherwise not in use.</p>	Optional/Dependant
<p>CreditorBankAccNr. The creditor's bank account number. For the credit or debit of the transactions in the section.</p> <p>The tag is mandatory is the XML contains M601Record(s) section 0112 or 0117– otherwise not in use.</p>	Optional/Dependant
<p>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 PBS registry with the creditor's general information, will be used. <i>In Betalingsservice option 2 solution the headline text is neither used on the Manual Payment Form nor on the Electronic Payment Form.</i></p> <p>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.</p> <p><i>That is, it is not possible to have different headline texts for the same debtor group by sending more deliveries or by dividing sections.</i></p> <p><i>The tag is not valid for section 0118</i></p>	Optional

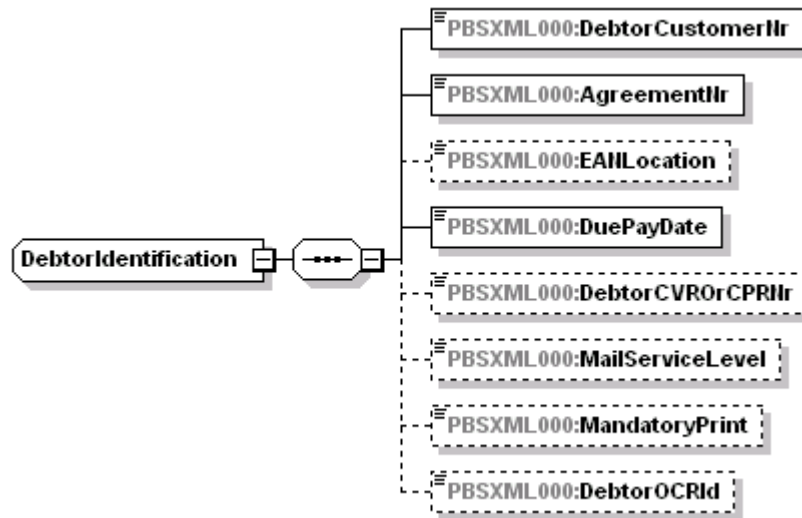
XML specification "SectionStart"

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:CreditorBankRegNr>4-Numeric</PBSXML000:CreditorBankRegNr>  
  <PBSXML000:CreditorBankAccNr>10-Numeric</PBSXML000:CreditorBankAccNr>  
  <PBSXML000:HeadLine>60-Char</PBSXML000:HeadLine>  
</PBSXML000:SectionStart>
```

Overview "DebtorIdentification"

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 Betalingsservice", then the customer number will always be right sided with preceding zeros.</p>	Mandatory
<p>AgreementNr. The agreement number for the debtor's automatic payment agreement. For the creditors using Betalingsservice option 2, the field must be filled in with 000000000. For the creditors using the Electronic Payment Form, the field must be filled in with 999999999.</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/dependant – refer to text.

<p>EANLocation. This tag is used, if the creditor and the debtor have agreed that Manual Payment Forms must be sent as OIOXML. Remember, if you use this tag, you MUST leave DebtorNameAddr3 blank. When Nets is generating the Manual Payment Form, EANLocation will be placed here. Also remember that the tag DebtorPostCode must be filled out with the value "0555".</p>	Optional
<p>DuePayDate. The due payment date (ddmmyyy).</p>	Mandatory
<p>DebtorCVRorCPRNr. The tag is used to ensure a better identification key for matching with debtors that have opted for EIK. If used for CVR-numbers, the data should be 8 bytes long. For CPR-numbers it should be 10 bytes long.</p> <p>Also the tag is used if the creditor wants Betalingsservice to check if the debtor has opted to receive payment slips in his eBoks.</p>	Optional
<p>DebtorOCRId. This tag is used if the creditor wants to generate his own OCR-line. The data entered in this tag must be the full OCR-line including control character based upon modulus 10 control</p>	Optional
<p>MailServiceLevel. This tag is used if creditor wants to allow only 2 days to deliver payment slip to debtor. If so, the data value in the tag must be set to "1".</p> <p>If creditor wants to allow up to 7 days to deliver payment slip to debtor, this tag should not be used or filled out with the character blank.</p>	Optional
<p>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 EIK or in his eBoks. If so, the data value in the tag must be set to "1".</p> <p>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</p>	Optional

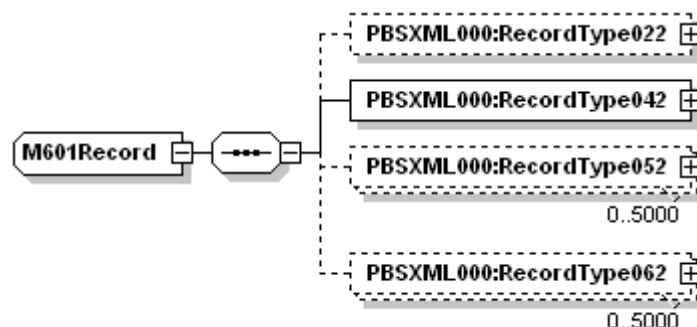
XML specification for "DebtorIdentification"

XML structure

```
<PBSXML000:DebtorIdentification>  
  <PBSXML000:DebtorCustomerNr>15-Char</PBSXML000:DebtorCustomerNr>  
  <PBSXML000:AgreementNr>9-Numeric</PBSXML000:AgreementNr>  
  <PBSXML000:EANLocation>13-Numeric</PBSXML000:EANLocation>  
  <PBSXML000:DuePayDate>DDMMYYYY</PBSXML000:DuePayDate>  
  <PBSXML000:DebtorCVRorCPRNr>10-numeric</PBSXML000:DebtorCVRorCPRNr>  
  MailServiceLevel>1-numeric</PBSXML000:MailServiceLevel>  
  MandatoryPrint>1-numeric</PBSXML000:MandatoryPrint>  
  <PBSXML000:DebtorOCRId>16-numeric</PBSXML000:DebtorOCRId>  
</PBSXML000:DebtorIdentification>
```

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 Betalingsservice option 2 (both Automatic Payments and Manual Payment forms). For creditors that have only chosen Betalingsservice 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 manual payment form.

RecordType062 holds extra text information to the debtor to specify the collection, if the collection is presented as a manual payment form. For manual payment forms, 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

M601Record is optional. This means that it is possible only to send M620Record containing enclosures in an XML. However it is NOT possible to send only M620Record structure, if the information about the collections have been sent in a previous XML file.

RecordType022 is mandatory for creditors who use Nets' option 2 (both

automatic payments and Manual Payment Forms). RecordType022 is not in use for creditors who only use Betalingsservice option 1 (only Automatic Payments). RecordType022 is also mandatory within section = 0117.

RecordType042 is mandatory.

RecordType052 is optional.

RecordType062 is optional

Iterations

RecordType022 can occur 1 time.

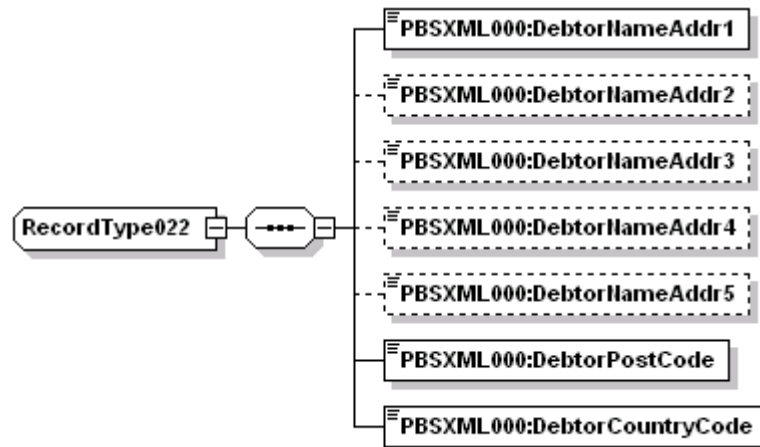
RecordType042 can only occur 1 time.

RecordType052 can occur 1 to 5.000 times.

RecordType062 can occur 1 to 5.000 times.

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. Remember to leave this tag blank, if you have entered an EANLocation in subgroup DebtorIdentification. Refer to further description below.	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. Remember to use post code = 0555 if you have entered an EANLocation in subgroup DebtorIdentification	Refer to description below

<p>DebtorCountryCode. The debtor's country code if the forwarding address is international.</p> <p>Country code must be in accordance with the ISO-3166 standard's 2-character variable.</p>	<p>Refer to description below</p>
<p>Limitations concerning use of address information</p> <p>The creditor has the option to deliver up to 5 lines of address information + the postal information (Post code and country code).</p> <p>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.</p> <p>If the Manual Payment Form is for domestic forwarding, then Betalingservice will construct an address line containing the post code and city name based upon the tag "DebtorPostCode".</p> <p>If the Manual Payment Form is for international forwarding, then the creditor must construct an address line containing eventual post code and city name.</p> <p>Betalingservice is filling in the country name based upon the tag "DebtorCountry-Code".</p> <p>If the tag is not present, left blank or contains "DK", the country name will not be printed.</p> <p>Remark: The subgroup is only used in the Betalingservice option 2 and the Betalingservice solution with Electronic Payment Forms.</p>	

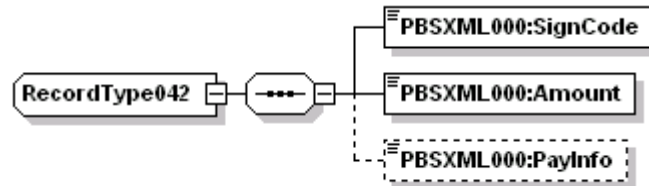
XML for RecordType022 in Subgroup M601Record

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>
```

Overview RecordType042 in Subgroup M601Record

Schematic overview



Tag Name	Mandatory/ Optional
<p>SignCode. State here whether the collection contains:</p> <p>0 = No amount.</p> <p>1 = Payment to the creditor</p> <p>2 = Payment to the debtor (Possible only for debtor's with automatic payment agreement)</p> <p>For section = 0118 only the value "1" is valid</p>	Mandatory
<p>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.</p> <p>If the field number 10 has code 0, then the field number 11 must be filled in with zeros.</p>	Mandatory
<p>PayInfo. The creditors reference regarding the collection. The content of the field will be returned with the payment information from Betalingsservice when the payment has been carried out. The creditor must be registered with this facility in advance before the information can be returned.</p> <p>Remark: For creditors using option 2, only the first 9 characters will be returned for payments that have been fulfilled by use of Manual Payment Form</p>	Optional

XML for RecordType042 in Subgroup M601Record

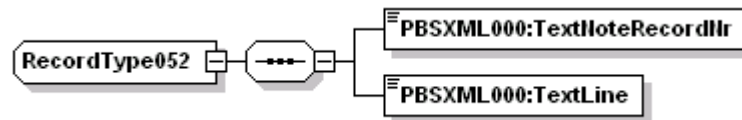
XML structure

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

Overview RecordType052 in Subgroup M601Record

Remark: RecordType052 can only be used within section = 0112 and 0118.

Schematic overview



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 Manual Payment Forms unless text lines in the subgroup Record-Type062 are present.	Mandatory

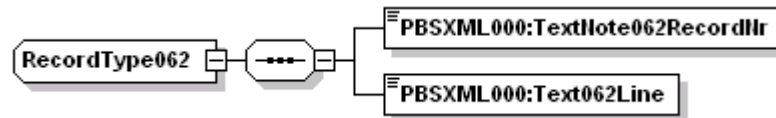
XML for RecordType052 in Subgroup M601Record

XML structure

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

Overview RecordType062 in subgroup M601Record

Scematic overview



Tag name	Mandatory/Optional
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 Manual Payment Form. If the subgroup RecordType062 is not present in the XML, text lines from subgroup RecordType052 will be used.	Mandatory

XML for RecordType062 in Subgroup M601Record

XML structure

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

Guideline for use of PDF documents as enclosures

General limitations

The general limitations are as follows:

- The average size of enclosures in an XML file must not exceed 70KB.
- The format of the 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 Nets' positive list for fonts. For list of fonts, please refer to attachment 1.
- The margin on the left side is recommended 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 Nets. We then will investigate if we are able to adapt your font.

Nets 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.

Nets is interested in cooperation concerning test of your application and will issue a "PDFValidationCode" that you subsequently can use as a certificate when you send collection files. Having passed the certification you will be ensured a faster validation of your file and thereby a better performance at your own site.

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 his netbank or in eBoks.

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 e-Boks.

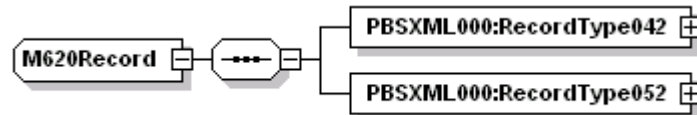
When using colours you must bear in mind that colours can appear very differently when they are displayed on a PC screen or printed on a black and white printer. It is therefore important to test the colours in advance.

Logos and images

When creating logos and images, you always must use vector graphics (EPS file).

Introduction to M620Record - the enclosure information

Scematic Overview



Enclosure information - content

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.

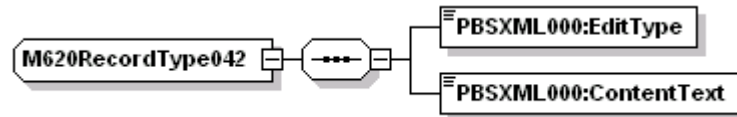
RecordType042 and RecordType052 are both mandatory.

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.

Overview RecordType042 in subgroup M620Record

Schematic overview



Tag name	Mandatory/optional
EditType. Only to be used after agreement with Nets	mandatory
ContentText. A text describing the enclosure ContentText 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.	Mandatory

XML for RecordType042 in Subgroup M620Record

XML structure

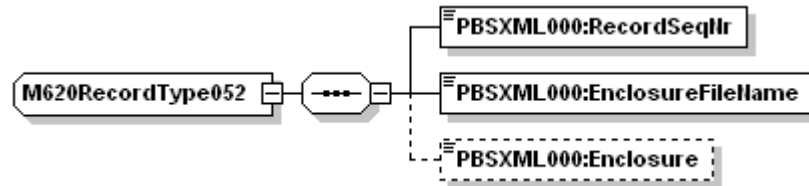
```
<PBSXML000:RecordType042>  
  <PBSXML000:EditType>4-Numeric</PBSXML000:EditType>  
  <PBSXML000:ContentText>50-Char</PBSXML000:ContentText>  
</PBSXML000:RecordType042>
```

Iteration

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

Overview RecordType052 in Subgroup M620Record

Schematic overview



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 Base64Binary format. 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.	Optional/Dependant

XML RecordType052 in Subgroup M620Record

XML structure

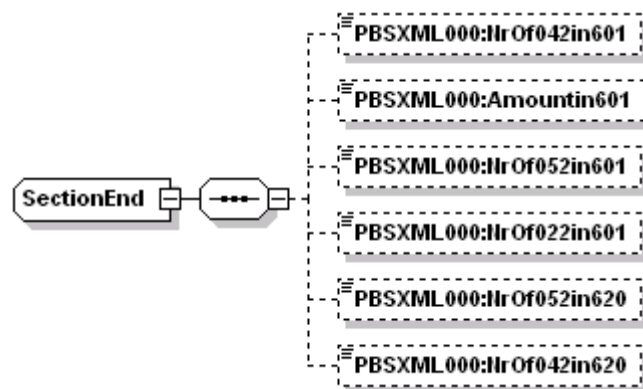
```
<PBSXML000:RecordType052>  
  <PBSXML000:RecordSeqNr>4-Numeric</PBSXML000:RecordSeqNr>  
  <PBSXML000:EnclosureFileName> 31929-Char</PBSXML000:EnclosureFileName>  
  <PBSXML000:Enclosure>Base64Binary</PBSXML000:Enclosure>  
</PBSXML000:RecordType052>
```

Iteration

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

Overview SectionEnd

Schematic overview



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
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 RecordType022 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

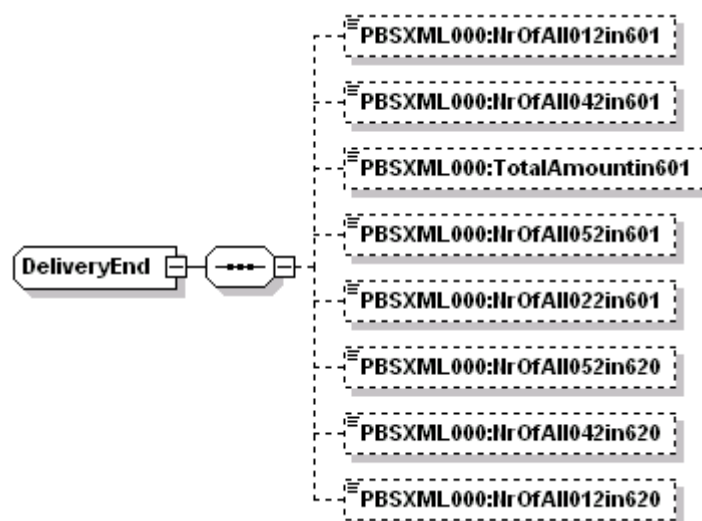
XML for SectionEnd

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>
```

Overview DeliveryEnd

Schematic overview



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 (1/100 of 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 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

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

Receipts from Nets

Introduction

When your XML file has been received by Nets, 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 Nets 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.

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>.msg where

"T." is a constant

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

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

".msg" is a constant.

Data

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

Record no.	Data	Length	Data type
1	Original XML file name	40	Numeric
2	Status OK = XML has passed validation Not OK = XML has not passed validation	6	Alfanumeric
3	Message – a text describing the status. Refer to table below	100	Alfanumeric

Message

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

Error Code	Text	Meaning
1	Customer must have an agreement with PBS	No agreement for sending enclosures has been found. Contact Nets 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 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 less than 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 fur-	The XML has been validated correct. Process-

	ther processing	ing is continuing. Wait for further receipts from Nets.
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.xml

OK

Input file is successfully processed

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.

File name convention

The filename has .txt as suffix.

The file name is generated with this standard:

Data name	Length	Comment
LayoutID	15	Always "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 Not OK = XML has not passed validation	6	Alphanumeric
3	Message – a text describing the status. Refer to table below	100	Alphanumeric
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 70 KB. You have exceeded this limit.
There is an error in the input folder. The zip file cannot be unzipped	Internal error during Nets' processing. Contact Nets
There is an error in your delivery. M620 information is missing. Please contact Document Services for further details	Internal error during Nets' processing. Contact Nets
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 can not 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 SectionEnd 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

Leverance ID: 0010031001

Leverancen er OK



Meddelelse: Der er ikke fundet fejl i leverancen i 1. validering

Antal bilag angivet i BS992 feltet: 1

Antal medsendte PDF filer: 1

Antal BS052 felter: 1

Gennemsnitlig PDF fil størrelse: 10KB

Transfer receipt for enclosures

Introduction

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

Naming Convention

The transfer receipt starts with "T" followed by a 5 digit identification number generated by Nets. 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 Nets internal use
DeliveryID	8	The 8 rightmost bytes from the tag "DeliveryID"
Filler	8	For Nets internal use
Date and time	12	Date and time for recieval of collections – YMMDDHHMMSS
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

Validation receipt for enclosures

Introduction

When the enclosures have been accepted by Betalingservice, a final receipt is issued. This receipt shows if the enclosures will be included in the output for the debtor.

Naming convention

The name of the file starts with "V" followed by a 5-digit identification created by Nets. The suffix of the file is always "BM5".

Data and sample

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

```
PBCNET41BM5 10031001          100310082610+PN00DATA MODTAGET
*****
*
* DATA TIL PBS
*
* 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:
* 07 - INDBETALINGSKORT OG ELEKTRONISK INDBETALKORT MED KORT FRIST
*
*
* LEVERANCEN ER ACCEPTERET
*
*
*
*****
```

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 5-digit identification created by Nets. 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 Nets internal use
DeliveryID	8	The 8 rightmost bytes from the tag "DeliveryID"
Filler	8	For Nets 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

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 5-digit identification created by Nets. 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 PBS:
*
* TILDELT LEVERANCE NR: 3101414001
*
* LEVERANDØR: 01929178  SYSTEM: BS1          TIDSPUNKT: 100310 - 082313
*
* ANTAL RECORDS: 000014
*
* BS00: LEVERANCE ACCEPTERET
*
* OPTÆLLING          SEKTIONER          TEKSTANTAL          BELØBSANTAL          BELØBS TOTAL
*
* LEVERANCE          1          3          1          0,01
*
* LEVERANCEN ER ACCEPTERET
*
*****

```

Attachment no. 1 – Font catalogue

Current fonts

Underneath you see the current list of Nets' 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	Gerogie 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	OCR B	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 Italic
Gautami	Raavi	Verdana Bold Italic
Georgia	Shruti	Webdings
