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DESIGN GUIDE IPOST

FI LetterBundle v1x0 Schema



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Product: iPost

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1 INTRODUCTION

This document describes the use of version v1x0 of iPost LetterBundle with iPost PDF and iPost EPL letters. LetterBundle XML follows the same schema in both products but, when the material is in EPL format, some of the elements and attributes are not available.

Additions to the new version offer better controllability of electronic channels such as letters transferred via Netposti. A letter can be complimented with metadata such as a person's identity number, which will unequivocally identify the recipient. In addition, the name of the sender company and the letter's heading can be entered in a range of language versions and the invoice data in structural format.

1.1 General information

1.1.1 File name

Filen names must be less than 90 characters. The limitation applies to all type of files such as *.AFP, *.EPL, *.PDF, *.XML and *.ZIP

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2 LETTERBUNDLE V1X0

2.1 V1x0 vs. v0x4

The v1x0 schema introduces new elements and removes some elements used in the older version. Particularly the new schema adds support for new virtual bank codes. We recommend the implementation of the new schema.

2.2 iPost EPL

The metadata is entered in specific locations in XML format. In EPL, additional EPLV rows will be entered around the XML section in the following manner:

EPLV-rows	Usage in EPL	
EPLVBUNDLEV1x0-BEGIN	Begins file-specific metadata. Location directly after EPL1 row. Only one per EPL file allowed.	
EPLVBUNDLEV1x0-END	Ends file-specific metadata.	
EPLVLETTERV1x0-BEGIN	Begins letter-specific metadata. Location directly after the row beginning with "1" following the EPLK row. Only one per letter allowed.	
EPLVLETTERV1x0-END	Begins letter-specific metadata. Location directly after the row beginning with "1" following the EPLK row. Only one per letter allowed.	

The character set used in iPost EPL XML is according to ISO8859-1. It is essential that the character sets of the entire file, both for EPL and metadata, shall be identical. IPost does not support character entities in the XML data.

Since the same data is given on the EPL1 and EPLK rows and the used XML schema is the same as in iPost PDF, the following elements and attributes are unnecessary in iPost EPL XML. The data contained in these elements or attributes will not be used in EPL data processing.

Element/Attribute	Usage in EPL
Bundle Common/ isTest attribute	Not used in EPL data processing. Instead, the Service Functions (16) field of row EPL1 is used
Std Bundle Processing element	Not used in EPL data processing. Corresponding data in the fields of row EPL1.
External File element	Not used in EPL data processing.
Letter Meta/Location element	Mandatory field according to the XML schema. This field is not used in the processing of EPL data. Use a fixed value <lb:location pages="-1" startpage="1"></lb:location>
Letter Meta/Std Letter Processing element	Not used in EPL data processing. Corresponding values described on row EPLK.

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3 ELEMENT SPECIFIC DATA

3.1 lb:LetterBundle element

Attributes/elements	Description	Control Data
xsi:schemaLocation	Mandatory	"urn:itella.com:/schema/i post/letterbundle/v1x0 LetterBundle_V1x0.xsd"
xmlns:xsi	Mandatory	"http://www.w3.org/2001 /XMLSchema-instance"
xmlns:lb	Mandatory. The "lb" namespace can also be something else. If the "lb" namespace differs from the one mentioned here, the namespace of the elements mentioned in this document must correspond to it.	"urn:itella.com:/schema/i post/letterbundle/v1x0"
schemaVersion	XML version. Mandatory.	"V1x0"
senderFileId	Sender's ID for the file.	Customer's unique ID for the batch, not mandatory.

3.1.1 lb:Bundle element

Attributes/elements	Description	Control Data
Sender Bundle ID	Customer's ID for the material	Customer's unique ID for the batch, not mandatory.

3.1.1.1 lb:BundleCommon element

Attributes/elements	Description	Control Data
isTest	Defines whether the material is a test or part of production	"true" = test material "false" = production material
Creation Date	Defines whether the material is a test or part of production	Format: http://www.w3.org/TR/xmlsche ma- 2/#dateTime
lb:BundleLabel	Defines whether the material is a test or part of production	Sender can give multiple own labels for the bundle. The label can be example any ID used for the Bundle in the processing before iPost service.



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3.1.1.2 lb:Sender element

Attributes/elements	Description	Control Data
ovtID	Batch sender's party identification number (OVT ID) (SFS 5748). The OVT ID can be generate from the Finnish Y- tunnus.	
Contact	Sender's contact data, used in case of error notifications.	Free-form text field for contact details. Mandatory
Company Name	Name of file's sender company. Used in case of error notifications.	Sender company's name.
Contact Person	Contact person. Used in case of error notifications.	Name of contact person / service.
Phone Number	Contact person's telephone number. Used in case of error notifications.	Telephone number with area codes.
email	Contact person's e-mail address Used in case of error notifications.	E-mail contact address.
lb:SenderAddress/lb:Eu 1	Company's contact details.	Sender company, address, postal code, post office and country code.

3.1.1.3 lb:StdBundleProcessing

The StdBundleProcessing element contains same data fields that the EPL1 line contains in the EPL data.

Attributes/elements	Description	Control Data
customerId	Customer ID	The customer receives this when it signs the iPost agreement with OpusCapita or Finland Post, "Pnnnnn" in the example.
password	Password	Issued to the person liable for the customer ID. Changed upon request. "mmmm" in the example.
serviceFunction	Service actions	0 = normal production material
electronicArchiving	Electronic Archiving	T = printing, no archiving B = both printing and eArchiving *) C = eArchiving only, no printing *) B and C are not in use when sending letters in PDF format *) Requires a service agreement
letterClass	Letter class	1 = Priority 2 = Economy
envelope	Envelope	S = iPost letter standard envelope Q= printing abroad (Baltics), see also archivingApplicationID
Paper	Paper	0 = standard paper for iPost letters W = PDF color printing
departmentClassificati on	Department classification	"false" = department-specific classification not in use "true" = department-specific classification in use
archivingApplicationID	Application ID	Length 2 characters (A-Z, 0-9) Printing abroad: EE=Estonia, LV= Latvia and LT=Lithuania
isDuplex="false"	Sides	"false" = 1-sided printing "true" = 2-sided printing



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3.1.1.4 lb:DeliveryChannelControl

Attributes/elements	Description	Control Data
denyElectronicCopyDeliver y	Controls the creation of letter copies in electronic channels such as Netposti.	"false" = default, electronic copies formed of physical letters "true" = no electronic copies formed of letters
denyElectronicOnlyDeliver y	Controls the creation of electronic letters in electronic channels such as Netposti.	"false" = default. If the addressee wishes to receive the letter in electronic format only, no physical letter is sent. "true" = letters will not be delivered in electronic format only

3.1.1.5 lb:RestrictMatchingForElectronicDelivery

This element controls recipient identification for electronic delivery. If this element has not been defined, all methods are used by default. This element can be used to restrict recipient identification to the use of the personal identity number (SSN) only.

If the attribute's value is false, this will not restrict the recipient identification. If the value of one or several attributes is "true" only these factors will be used in recipient identification when performing delivery via electronic channels.

Attributes/elements	Description	Control Data
recipientSSN	Recipient's personal identity number (HETU in Finland).	"true" or "false"
recipientPhoneNumber		
recipientEmailAddress	Recipient's e- mail address	"true" or "false"
recipientCustomerCode	Recipient's customer code	"true" or "false"
recipientIBAN	Recipient's IBAN bank code	"true" or "false"
recipientAddress	Recipient's postal address	"true" or "false". Recipient address is mandatory in letter specific recipient data. Recipient address controls whether recipient's address data is used in electronic delivery, if other limitations exist (e.g. recipientSSN is set as "true").
recipientElectronicAddress	Recipient's electronic channel address	"true" or "false"
recipientOvtID	Party identification number (OVT ID) of recipient company.	"true" or "false"



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3.1.1.6 ExternalFile

If letter data is in separate file, then this element contains the file data. If this is set, then each letter must have the letter location data in the file.

Attributes/elements	Description	Control Data
senderFileId	Sender's ID for the file.	
filename	Name of PDF file	File name that contains the PDF letters. Mandatory for PDF letters. The name of the file without the path. The LetterBundle xml-file and the data file must be located in the same directory. File name must have less than 90 characters.
CheckSum/lb:type	Not used.	
CheckSum/lb:value	Not used.	

3.1.1.7 lb:Letter

The Letter element in the XML metadata of iPost EPL file must include the following attributes: xsi:schemaLocation, xmlns:xsi and xmlns:lb. The values are defined in section 3.1 lb:LetterBundle element on page 5.

Attributes/elements	Description	Control Data
senderLetterId="LetterID1"	Sender's ID for the letter	

3.1.1.7.1 lb:LetterMeta

Attributes/elements	Description	Control Data
LetterLabel	Label for the letter. Can be used for example to include additional ID's for the letter.	

3.1.1.7.1.1 lb:Location

Attributes/elements	Description	Control Data
startPage	Letter's start page in the PDF file.	Mandatory
pages	Number of pages in the letter.	Mandatory

3.1.1.7.1.2 Ib:StdLetterProcessing

Attributes/elements	Description	Control Data
departmentClassificationCo de	Department code (enables itemised billing). For these to be visible on the invoice, the department classification code "departmentClassification" must be "true".	Optional, 5- character-long (A-Z, 0-9) code.



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3.1.1.7.1.3 lb:Recipient

Recipient's data is used in letter delivery optimisation. Recipient's physical address data is **mandatory**.

Attributes/elements	Description	Control Data
SSN	Recipient's personal identity number. Used for identifying the person in electronic channels (primary identification). In Finland this is HETU code.	Recipient's personal identity number
phoneNumber	Recipient's phone number. Used for identifying the person in electronic channels.	Fixed line or mobile phone number.
emailAddress	Recipient's e-mail address. Used for identifying the person in electronic channels.	
customerCode	Recipient's customer code. Used for identifying the person in electronic channels.	
ovtID	Recipient company's identification number (OVT ID) (SFS 5748). The OVT ID of Finnish company is created by adding 0037 to the beginning of the business ID (Y-tunnus) and removing the hyphen. For example: Business ID = 1234567-8 OVT ID = 003712345678	
lb: Address/lb:Eu1	Recipient's physical address data	Recipient's name, address, postal code, post office and country code. Mandatory
lb:RecipientBankAccount	Recipient Bank Account	Bank account type that supports BBAN (old) and BIC+IBAN (new) . BIC+IBAN recommended
lb: RecipientBankAccount /lb:BIC	The Bank Identifier Code (BIC) of the payee's intermediator.	
lb: RecipientBankAccount /lb:IBAN	The International Bank Account Number (IBAN)	
/lb:BBAN account. It recommend		This the old format for bank account. It is strongly recommended to use BIC + IBAN instead of BBAN
lb: RecipientBankAccount /lb:CountryCode		
lb: PreferredElectronicAddress /channelName	Preferred electronic channel "None" = not selected 'Netposti	
lb: PreferredElectronicAddress /address	Recipient's preferred electronic channel address.	
lb:ElectronicAddress /channelName	Name of electronic channel. If the PreferredElectronicAddress element is found, the preferred channel is used instead of this.	"None" = not selected "Netpost" = Netposti



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3.1.1.7.1.4 lb:Sender

Attributes/elements	Description	Control Data
ovtID	Sender's party identification number (OVT ID). If the sender is an operator, this section will include the OVT ID of that sender which is known to the recipient, not the operator's OVT ID.	OVT ID in accordance with SFS 5748 NOTE: If OVT id is used here then it is mandatory to use sender's name in lb:name/lb:text
phoneNumber	Sender's phone number for the recipient	Fixed line or mobile phone number.
email	Sender's e-mail address for the recipient	
webSite	Sender's website address for the recipient.	
lb:name/language	Language code for the sender's name. Language code 3066, for exam GB. FIN or fin code.	
lb:name/text	Sender's name for the recipient in accordance with the language attribute's language. If the language attribute is empty, the default language is used.	NOTE: This is mandatory if OVT id is used in lb:ovtID
lb: Address/lb:Eu1	Recipient's address information	Recipient's name, address, postal code, post office and country code



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3.1.1.7.1.5 lb:LetterDetails

The data in the LetterDetails element is used in electronic delivery to describe the content of the letter, such as letter type and language, and to ease the payment of an electronic invoice e.g. by means of a bank barcode. The sender helps electronic receiver by filling these data fields.

Attributes/elements	Description	Control Data
language	Language of the letter	Language code according to RFC 3066, e.g. fi, fi-FI, sv- SE, en-GB. FIN or fin are not valid language codes
deliveryDate	Language of the letter	Format: http://www.w3.org/T R/xmlschema- 2/#dateTime
lb:Subject/language	Language code for the letter's heading.	Language code according to RFC 3066, e.g. fi, fi-FI, sv- SE, en-GB. FIN or fin are not valid language codes
lb:Subject/text	Letter's heading in accordance with the language attribute's language. If the language attribute is empty, the default language is used.	
lb:LetterContentType/invoice lb:LetterContentType/wageSlip lb:LetterContentType/arrivalNotice lb:LetterContentType/healthCare lb:LetterContentType/reminder lb:LetterContentType/announcement lb:LetterContentType/archiveItem lb:LetterContentType/lauthorityMessag e	Letter type. Several attributes can have values simultaneously.	"true" or "false"
lb:BankTransfer/bankBarcode	Bank barcode	Includes 54 characters. See Federation of Finnish Financial Services (www.fkl.fi).
lb:BankTransfer/BankBarcodeCountry	Bank barcode country code	If the bank barcode definition or usage is country specific, include here the country code. The two letter country code using the ISO3166 standard.
lb: BankTransfer/referenceNumber	Invoice reference number	
lb: BankTransfer/dueDate	Invoice due date	YYYY-MM-DD (ISO 8061)
lb:BankTransfer/issueDate	Invoice date	YYYY-MM-DD (ISO 8061)



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lb: BankTransfer/totalAmount	Invoice total sum	
lb: BankTransfer/totalAmountString	Invoice total sum in text	In direct debit "****"
lb:BankTransfer/currency	Used currency	Currency code in accordance with ISO 4217. Default is EUR.
lb: BankTransfer/type	Bank transfer type	"NONE", "BANKGIRO", "DIRECTDEBIT"
lb: BankTransfer/pageInLetter	Bank transfer page number in the letter. The letter's first page number is 1.	
lb:BankTransfer/Payer	Payer's name	
lb: BankTransfer/Payee	Payment receiver's name	
lb:BankTransfer/lb:PayeeBankAccount	Payee's Bank Account	Bank account type that supports BBAN and BIC+IBAN. BIC+IBAN recommended.
lb:BankTransfer/lb:PayeeBankAccount /lb:BIC	The Bank Identifier Code (BIC) of the payee's intermediator.	
lb:BankTransfer/lb:PayeeBankAccount /lb:IBAN	The International Bank Account Number (IBAN)	
lb:BankTransfer/lb:PayeeBankAccount /lb:BBAN	The Basic Bank Account Number (BBAN)	This the old format for bank account. It is strongly recommended to use BIC + IBAN instead of BBAN.
lb:BankTransfer/lb:PayeeBankAccount /lb:CountryCode	Country code	The two letter country code using the ISO3166 standard to use with BBAN.
lb:BankTransfer/lb:PayeeAddress/lb :Eu1	Payee's contact details.	Payee's company, address, postal code, post office and country code.



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4 BANK TRANSFER DATA IN NETPOSTI

Netposti does not support all possible LetterBundle data variations. Limitations and the way they are handled in the iPost service are listed below. Usually it is safest to include everything in the LetterBundle XML.

The payment data in the Netposti delivery contains the bank barcode and payment details.

Element or Attribute (LetterBundle v1x0)	Limitations in the Netposti delivery.
/lb:LetterBundle/lb:Bundle/lb:Let ter/lb:LetterMeta/lb:LetterDetails /lb:BankTransfer	If the BankTransfer element contains total Amount and at least one PayeeBankAccount, bank barcode and the Payment details are included in the Netposti delivery. If either totalAmount or PayeeBankAccount is missing, only bank barcode is included.
/lb:LetterBundle/lb:Bundle/lb:Letter/lb:LetterM eta/lb:LetterDetails /lb:BankTransfer/@bankBarcode	 If attribute length is not 54 characters bank barcode number is not included in the Netposti delivery. If bank barcode contains other characters than numbers it is not included in the Netposti delivery.
lb:LetterBundle/lb:Bundle/lb:Letter/lb:LetterM eta/lb:LetterDetails /lb:BankTransfer/@referenceNumber	 The attribute may start with the string "RF". This string is trimmed out for delivery. If attribute length is not between 0 and 23, reference number is not included in the Netposti delivery. If the attribute contains other than number characters, the reference number is not included in the Netposti delivery. The string "RF", if present, is trimmed out before this check. The pattern for number testing is ([1-9][0-9]*)*
/lb:LetterBundle/lb:Bundle/lb:Letter/lb:LetterM eta/lb:LetterDetails /lb:BankTransfer/lb:PayeeBankAccount	If a BankTransfer element contains multiple PayeeBankAccount elements only the first PayeeBankAccount data is included in the Netposti delivery.
/lb:LetterBundle/lb:Bundle/lb:Letter[2]/lb:Lette rMeta/lb:LetterDetails/lb:BankTransfer/@total Amount	 If totalAmount less than 0.01 or greater than 999999.99, no payment details are sent. However, bank barcode is sent anyway. If totalAmount contains more than two (2) digits after the decimal mark, the part after the mark is truncated without rounding to two (2) digits. For example 1.45678 would become 1.45
/lb:LetterBundle/lb:Bundle/lb:Letter/lb:LetterM eta/lb:LetterDetails /lb:BankTransfer/@currency	If the currency is other than EUR, payment details are not included in the Netposti delivery.
/lb:LetterBundle/lb:Bundle/lb:Letter[2]/lb:Lette rMeta/lb:LetterDetails/lb:BankTransfer/@issu eDate	- issueDate does not have any equivalent in Netposti. This data is not included in the Netposti delivery.
/lb:LetterBundle/lb:Bundle/lb:Letter[2]/lb:Lette rMeta/lb:LetterDetails/lb:BankTransfer/@total AmountString	- totalAmountString does not have any equivalent in Netposti. This data is not included in the Netposti delivery.
/lb:LetterBundle/lb:Bundle/lb:Letter[2]/lb:Lette rMeta/lb:LetterDeta ils/lb:BankTransfer/@type	type does not have any equivalent in Netposti. This data is not included in the Netposti delivery.



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5 HYPERLINK TO NETPOSTI-LETTERS

Hyperlinks may be added to letters that go to NetPosti. Hyperlink is shown above the actual letter. The receiver activates the link by clicking on it with the mouse and the browser will display the target of the link.

Example:

</LB:LETTER