

# EDI Web Services

in



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## O. Background

Danske Bank has implemented the EDI Web Services channel for Sampo Bank in 2009 and for the entire Danske Bank Group in 2012. The EDI Web Services is built on the Finnish specification and is described in this document in details. Even though this document interprets on the original specification, the EDI Web Services uses the original WSDL-file defined by Sampo Bank, Nordea and OP-Pohjola Group.

The reader of this document (integrator) is expected to be familiar with technologies like PKI, XML (including schemas and WSDL files), SOAP, Web Services, XMLDSIG, XML Encryption base64, canonicalization, basic Internet communication (http/https) and Application Development using for instance Microsoft .NET and C#.

In order to use the EDI Web Services a set of PKI Certificates have to be issued. To acquire PKI Certificates for EDI Web Services the Company has to have a Business Online Agreement with EDI Web Services Module. In addition to that The Customer has to sign the User Authorisation to grant access for the user to the EDI Web Services.

The PKI certificates are created using the PKI Web Services. Please refer to [www.danskebank.com/integrationservices](http://www.danskebank.com/integrationservices) for more information about PKI Web Services and EDI Web Services.

The EDI Web Services URL to be used when implementing EDI Web Services is

`https://businessws.danskebank.com/financialservice/edifileservice.asmx`

In this document you will come across the term "Customer User ID". This ID is equivalent to the lowest level of identification of a user (belonging to a Business Online Agreement). The ID is reflected in the certificates issued by Danske Bank.

SOAP-packets are time stamped before they are signed. The EDI Web Services will not accept SOAP-packets that are older than 5 minutes.

Every night at 2.55 CET we have one minute Service Window for the EDI Web Services. All requests from customers passing through the EDI Web Services between 2.55 and 2.56 CET will NOT be handled.

We have chosen to follow Internet standards in naming our new services: Web Services must be used in two words and always in plural form. Hence the official product names:

- EDI Web Services
- PKI Web Services

## 1. General notes

This section describes general characteristics of EDI Web Services in Danske Bank.

### Encryption

Danske Bank Group requires that data sent to the Bank is always encrypted (ApplicationRequest). Data sent from the Bank (ApplicationResponse). will normally be encrypted, but in error situations Danske Bank cannot always identify the user, and error responses may be unencrypted.

### Compression

It is recommended that files uploaded to the Bank are compressed. Likewise files downloaded from the Bank will also be compressed.

Two methods of compression will be supported: GZIP (RFC 1952) and DEFLATE (RFC 1951).

### UploadFile maximum size

The Maximum file size is 70MB.

If compression is used the original file size does not matter, as long as the compressed file size is 70MB or below.

### Maximum number of files

Up to 80,000 files may be uploaded per agreement per day.

Up to 269,190 files may be downloaded per agreement per day.

### Service Bureau / Service House

To accommodate the concept of Service Bureaus we will allow the CustomerId of the ApplicationRequest to differ from the ID of the certificate used to sign the ApplicationRequest. See section 2.3 and Appendix E.

### DownloadFileList

Please notice that the operation DownloadFileList will only return files that are available for download from the Bank. It will not show the files that have been uploaded to the Bank.

### DownloadFile

The list of files for download provided in FileReferences can contain up to 10,000 FileReferences . To download more than 10,000 files you will have to call DownloadFile multiple times.

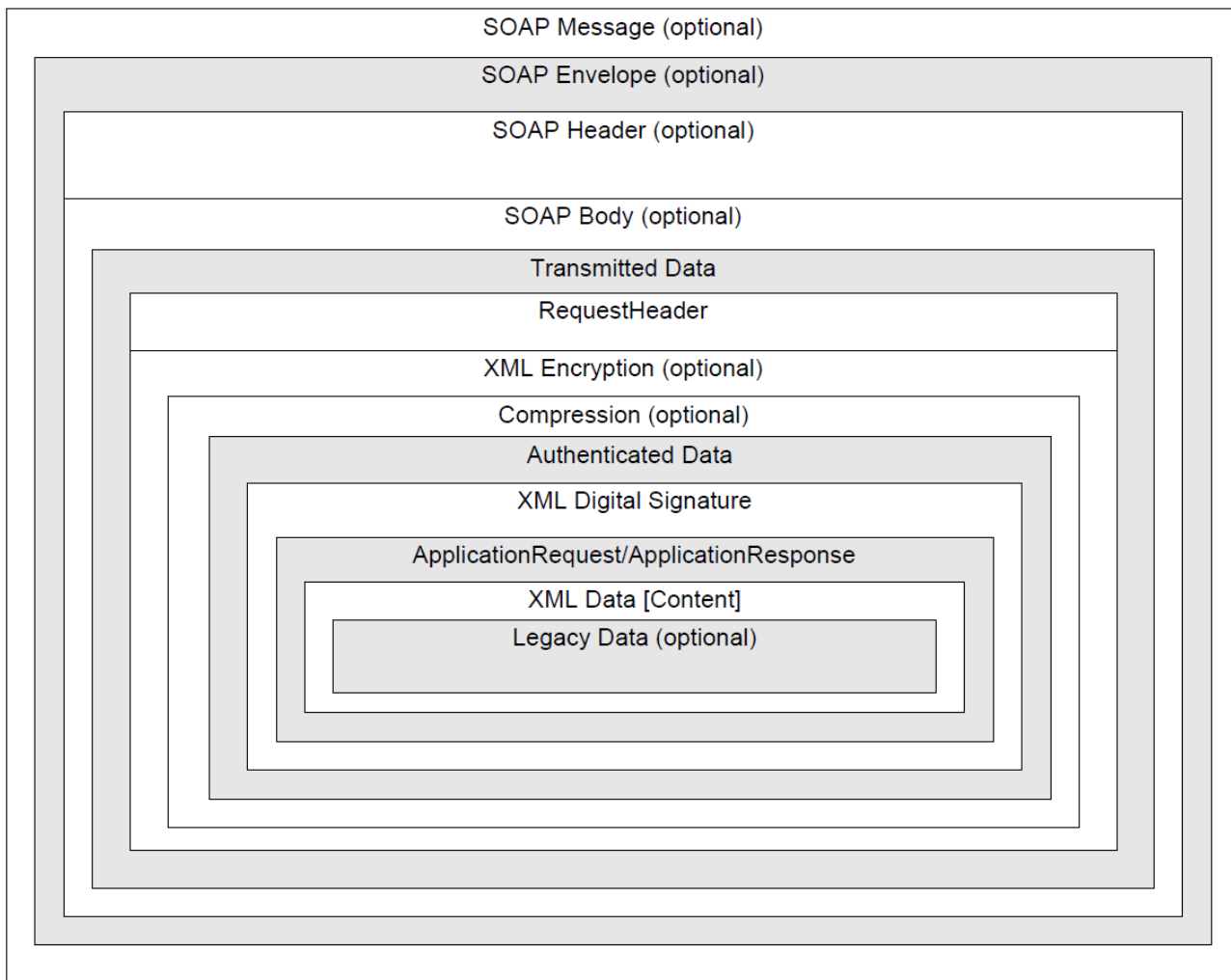
If the client experiences a timeout on a multiple file DownloadFile request - the client side may have to split the operation into multiple calls to DownloadFile.

### Transfer-encoding: chunked

Danske Bank does not support 'Transfer Encoding: chunked' in the http header.

## 2. Information about the functions of the EDI Web Services.

The SOAP Packet used for requests consists of several layers as seen in the drawing below:



The RequestHeader (or ResponseHeader) wraps layers of compression, encryption and signing before the ApplicationRequest (or ApplicationResponse) can be accessed.

The RequestHeader and ResponseHeader are validated using the WSDL-file whereas the ApplicationRequest and ApplicationResponse have their own XML Schema files for validation.

This chapter describes the RequestHeader, ResponseHeader, ApplicationRequest and ApplicationResponse XML-structures.

The description lists the intended use of each field (tag) as specified by the original specifications.

## 2.1 Using the RequestHeader

RequestHeader				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
SenderId	Max35Text	[1..1]	The unique identification of the sender of this request message. The message sender can be a 3rd party service bureau. This identification is issued and managed by the receiver of this message (the bank). The SenderId identity is authenticated by the digital signature in the SOAP Header.	Customer User ID registered for the sending customer / Service Bureau. The ID must match the content of the certificate used to sign the SOAP packet.
RequestId	Max35Text	[1..1]	The unique identification for this request. Rule: This unique ID is copied to the response header. This value must be unique for three months.	Copied to ResponseHeader
Timestamp	ISODatetime	[1..1]	Time and date when the request was sent. If no time zone specified, UTC time zone assumed	Request will be rejected if timestamp is older than 1 hour.
Language	Max16Text	[0..1]	Language attribute. Used to request language version for certain information in display (human readable) format. If used, one of the following codes must be used: "EN" = English "SV" = Swedish "FI" = Finnish	Not used
UserAgent	Max35Text	[1..1]	The name and version of the software which was used to send this request.	Not used
ReceiverId	String	[1..1]	Identification of the receiver of this request message (BIC code for the bank)	Not used

## 2.2 Using the ResponseHeader

ResponseHeader				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
SenderId	Max35Text	[1..1]	The unique identification of the sender of the original request message for this response (the receiver of this response).	Customer User ID registered for the sending customer / Service Bureau. Matches the SenderId from the RequestHeader.
RequestId	Max35Text	[1..1]	The unique identification copied from the original request for this response.	Copied from RequestHeader
Timestamp	ISODateTime	[1..1]	Time and date when the response was sent.	Used
ResponseCode	Max16Text	[1..1]	This code is used to indicate the file delivery (send - receive) condition.	Used. For valid response codes see Appendix B.
ResponseText	Max512Text	[1..1]	The textual explanation of the condition.	Used
ReceiverId	String	[1..1]	Identification of the receiver of the original request message for this response (the BIC code of the bank that sends this response)	DABADKKK

### 2.3 Using the ApplicationRequest

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
CustomerId	Max16Text (min 1, max16)	[1..1]	Code used by the bank to identify the customer who originated this request. This code is bank specific, i.e. each bank issues and manages its own CustomerIds. When signing the ApplicationRequest element, the certificate used to verify the Signature must be associated with the CustomerId given in this field. CustomerId identifies the customer, the Signature authenticates the identity of the customer. This element is always mandatory in all operations.	Customer User ID registered for the sending customer. Usually this ID matches the ID in the certificate used to sign the payload (for UploadFile). See also Signature field of the ApplicationRequest and Appendix E.



ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Command	Max32Text Must specify one of the following: UploadFile, DownloadFileList, DownloadFile, DeleteFile, ConfirmFile or GetUserInfo	[0..1]	This element specifies the requested operation. The values are not case sensitive. This element is optional if the bank can determine the operation by other means. For example in the SOAP message the name of a higher level XML element can already specify the operation. In such a case, the Command element can be left out, but if it is included in the request, its content must match the operation specified by other means.	Only the following values are accepted: UploadFile, DownloadFileList, DownloadFile  DeleteFile/GetUserInfo (not implemented - see section 3.4 and 3.5).
Timestamp	ISODateTime	[1..1]	Time and date when the Application Request Header was created.	Not used
StartDate	ISODate	[0..1]	When requesting data from the bank, e.g. with the DownloadFileList operation, this element can be used to specify filtering criteria. This element contains a date which specifies the starting point of the time filter, inclusive. If this element is not present, but EndDate is given, it means the filtering criteria does not have a starting point.	Used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
EndDate	ISODate	[0..1]	When requesting data from the bank, e.g. with the DownloadFileList operation, this element can be used to specify filtering criteria. This element contains a date which specifies the ending point of the time filter, inclusive. If this element is not present, but StartDate is given, it means the filtering criteria does not have an ending point.	Used
Status	Max10Text Must specify one of the following: "NEW" = Give me a list of those files that haven't been downloaded yet. "DLD" = Give me a list of those files that have already been downloaded. "ALL" (default) = Give me a list of both new and already downloaded files.	[0..1]	When requesting data from the bank, e.g. with the DownloadFileList operation, this element can be used to specify filtering criteria. One status can be specified in this element and this status is used to filter the requested data. For example only a list of files with status "NEW" can be fetched.	Used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
ServiceId	Max256Text	[0..1]	<p>Additional identification information of the Customer, for example a Contract Number, Account Number or similar. This element is used, if the CustomerId alone does not give identification that is specific enough to process the request.</p> <p>In DownloadFile request for multiple files the field can be use to state a predefined separator</p>	See appendix F.
Environment	Must specify one of the following codes: "PRODUCTION" = Production environment, "TEST" = Testing environment.	[1..1]	<p>This field specifies which environment the request is meant for. The values are not case sensitive. This element must agree with the URL the request was sent to. For example if this element says "PRODUCTION", but the request was sent to a test URL, the bank will reject the request. The customer can use this element to add a level of redundancy which helps to catch situations when a wrong URL is used. Rule: In case of URL and code mismatch the following Response code is given "Environment mismatch".</p>	TEST is interpreted as "payments are validated but not executed" (no bookkeeping). Please note that Environment only applies to payments

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
FileReferences FileReference	Complex Max32Text	[0..1] [1..n]	<p>Unique identification of the file that is the target of the operation.</p> <p>This element is used in operations DownloadFile, DeleteFile and ConfirmFile to specify which file is to be operated upon. The customer must have obtained the FileReference value beforehand, e.g. using the DownloadFileList or UploadFile operations.</p> <p>The customer never generates the FileReference. This value is generated in the bank. It is comparable to a file system File Handle.</p>	<p>Usage deviates slightly from the official usage. See appendix G.</p> <p>In Danske Bank: n = 10000</p>

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
UserFileName	Max80Text	[0..1]	<p>A name given to the file by the customer. The value given in this element in the UploadFile operation is stored in the bank and shown in various listings to help the customer identify the file.</p> <p>Please note that the real identification of a file is the FileReference. The UserFileName field is just comment type information and is not used by bank systems.</p> <p>Rule: This element is mandatory in the operation UploadFile and ignored in all other operations. If missing, request will be rejected, responsecode = "No File Name"</p>	Used Will be displayed in List of files in Business Online
TargetId	Max80Text	[0..1]	<p>The logical folder name where the file(s) of the customer are stored in the bank. A user can have access to several folders.</p> <p>A customer may want to give their users different views of files and assets that are included in the customer agreement. That can be achieved by organizing file types and assets associated to those file types into separate folders.</p>	Not used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
ExecutionSerial	Max32Text	[0..1]	An identifier given by the customer to identify this particular request. The bank does not enforce the uniqueness of this identifier - the value is used only by the customer. This element could be used for example to uniquely identify all ConfirmFile operations. This element is optional. Using ISO timestamp is recommended.	Not used
Encryption	Boolean	[0..1]	Encryption indicator for the content or encryption request for the responses Rule: If this element is present and the content is the string "true" (case-sensitive) it means that the Content is encrypted or the requested data should be encrypted by the bank. If this element is present and the content is the string "false" (case-sensitive) it means that the Content is NOT encrypted or the requested data should NOT be encrypted by the bank.	Not used. Has no real meaning since this field is part of the encrypted information. Danske Bank requires incoming data to be encrypted.
EncryptionMethod	Max35Text	[0..1]	Name of the encryption algorithm	Not used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Compression	Boolean	[0..1]	<p>Compression indicator for the content and compression request for the responses.</p> <p>Rule: If this element is present and the content is string true (case-sensitive) or 1 it means that the Content is compressed or the requested data should be compressed.</p> <p>If this element is present and the content is string false (case-sensitive) or 0 it means that the Content is NOT compressed or the requested data should NOT be compressed.</p>	Used
CompressionMethod	Max35Text	[0..1]	Name of the compression algorithm	GZIP or DEFLATE

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
AmountTotal	Double	[0..1]	<p>Total sum of amounts in the file. If the data contained in this request has monetary values, the customer can calculate the total amount of these values and place it in this field. If this element is present, the bank can compare the values in the data against the value in this element and reject the request if they do not match. The use of this check is to be agreed between the customer and the bank.</p> <p>This element can also be used in file listings and reports as comment type information to help identify data files. It is easier for the customer to say "file sent last week with total amount around 2.000 euros", instead of "file with FileReference 192830384938". It is up to the bank to decide if it takes the Amount information from this element in the request or if it calculates it from the data file.</p>	Not used



ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
TransactionCount	Long	[0..1]	The same use as element AmountTotal, but contains the total number of transactions in the data. What "transaction" means varies with type of data, e.g. in C2B pain.001.001.02 payment data TransactionCount is the number of <CdtTrfTxInf> elements.	Not used
SoftwareId	Max80Text	[1..1]	This element contains the name and version of the client side software that generated the request. It is used for customer support purposes.	Used. Can be monitored in the EDI Gateway at Danske Bank.
CustomerExtension	Complex	[0..1]	Customer, bank, country or region specific elements not already contained in the schema. This element allows adding new elements without changing the ApplicationRequest schema. Both customer and bank must agree on the structure of this element.	Not Used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
FileType	Max40Text	[0..1]	<p>Specified the type of file in the request. Can also be used as a filter in the operation DownloadFileList. The values accepted in this element are agreed upon between the customer and the bank. New file types will be added, and they will not affect the schema. An appendix will be provided listing commonly used FileTypes. Rule: For ISO messages, the ISO name must be used. This element is mandatory in operation UploadFile, optional in DownloadFileList, ignored in other operations.</p>	Used See Appendix D
Content	Base64Binary	[0..1]	<p>The actual file in the UploadFile operation. The file is in Base64 format. Rule: This element is mandatory in operation UploadFile, ignored in other operations.</p>	Used

ApplicationRequest - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Signature	MaxUnlimitedDSIG	[0..1]	The digital signature for the ApplicationRequest. This element is created by the XML Digital Signature operation by the customer. It is included in this schema as optional element to allow schema validation of the ApplicationRequest element with or without the Signature. Its content is specified by the XML Digital Signature standard. Rule: This element is mandatory when sending any request to the bank as it is used for integrity verification and authentication. This element is defined as optional in the schema because the recipient can remove the signature element after verification of the signature.	If the ID in the certificate does not match the ID specified in the SenderId field then the certificate ID must belong to a Service Bureau that is allowed to handle payments on behalf of the SenderId. If that is the case then we will use the Customer User ID from SenderId instead of the one from the Signature (see Appendix E.). ApplicationRequest has to be signed by one and only one signatur

## 2.4 Using the ApplicationResponse

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
CustomerId	Max16Text	[1..1]	Returns the customer identification that was in the corresponding ApplicationRequest.	Copied from ApplicationRequest
Timestamp	ISODateTime, if no time zone specified, UTC time zone assumed	[1..1]	Time and date when the Application Response Header was created	Used
ResponseCode	Max16Text	[1..1]	The response code given by the bank to indicate the result of the requested operation. For valid codes - see appendix C.	Used
ResponseText	Max80Text	[1..1]	A text string (human readable) explaining the response code given in the ResponseCode element. Do not rely on the exact contents of this string, use the ResponseCode value instead.	Used
ExecutionSerial	Max32Text	[0..1]	The bank returns the ExecutionSerial unique identification code for the operation given by the customer in the ApplicationRequest Header.	Used

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Encrypted	Boolean	[0..1]	<p>Encrytion indicator for the content or encryption request for the responses</p> <p>Rule: If this element is present and the content is the string "true" (case-sensitive) it means that the Content is encrypted or the requested data should be encrypted by the bank.</p> <p>If this element is present and the content is the string "false" (case-sensitive) it means that the Content is NOT encrypted or the requested data should NOT be encrypted by the bank.</p>	Not used. Has no real meaning since this field is part of the encrypted information.
EncryptionMethod	Max35Text	[0..1]	Name of the encryption algorithm	Not used

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Compressed	Boolean	[0..1]	Compression indicator for the content and compression request for the responses. Rule: If this element is present and the content is string true (case-sensitive) or 1 it means that the Content is compressed or the requested data should be compressed. If this element is present and the content is string false (case-sensitive) or 0 it means that the Content is NOT compressed or the requested data should NOT be compressed.	Used
CompressionMethod	Max35Text	[0..1]	Name of the compression algorithm	GZIP or DEFLATE

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
AmountTotal	Double	[0..1]	<p>Total sum of amounts in the file. If the data contained in this request has monetary values, the customer can calculate the total amount of these values and place it in this field. If this element is present, the bank can compare the values in the data against the value in this element and reject the request if they do not match. The use of this check is to be agreed between the customer and the bank.</p> <p>This element can also be used in file listings and reports as comment type information to help identify data files. It is easier for the customer to say "file sent last week with total amount around 2.000 euros", instead of "file with FileReference 192830384938". It is up to the bank to decide if it takes the Amount information from this element in the request or if it calculates it from the data file.</p> <p>Rule: There is no requirement for the bank to use this element even if the file type</p>	Not used

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
TransactionCount	Long	[0..1]	The same use as element AmountTotal, but contains the total number of transactions in the data. What "transaction" means varies with type of data, e.g. in C2B pain.001.001.02 payment data TransactionCount is the number of <CdtTrfTxInf> elements. Rule: There is no requirement for the bank to use this element even if the file type would allow for it.	Not used
FileDescriptors FileDescriptor	Complex Complex	[0..1] [1..n]	In response to DownloadFileList. An element containing a number of FileDescriptor elements as described in Appendix A.	Used
CustomerExtension	MaxUnlimitexText	[0..1]	Customer, bank, country or region specific elements not already contained in the schema. This element allows adding new element without changing the ApplicationRequest schema. Both customer and bank must agree on the structure of this element.	Not used



ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
FileType	Not known	[0..1]	Not described in either original documentation or Schema file for ApplicationResponse.	Not used
UserFileTypes	Complex	[0..1]	The response for GetUserInfo contains number of UserFileType elements that describe which file types are accessible to this user and their attributes. It is possible to filter the view by specifying TargetId and/or FileType in the ApplicationRequest for GetUserInfo request.	Not used
Content	MaxUnlimitedBase64	[0..1]	Response to DownloadFile. The actual content, payload in the DownloadFile operation. The file is in Base64 format. Rule: This element is mandatory in operation DownloadFile, ignored in other operations.	Used

ApplicationResponse - General Description				
Field	Type	Cardinality	Official definition of the field	Danske Bank usage
Signature	MaxUnlimitedDSIG	[0..1]	<p>Digital signature of the ApplicationResponse.</p> <p>Definition: Digital signature. This element is created by the XML Digital Signature operation by the bank. It is included in this schema as optional element to allow schema validation of the ApplicationRequest element with or without the Signature. Its content is specified by the XML Digital Signature standard.</p> <p>Rule: This element is mandatory when sending ApplicationResponse to the customer as it is used for integrity verification and authentication of the bank. This element is defined as optional in the schema because the recipient can remove the signature element after verification of the signature.</p>	Used

### 3. Operations of the EDI Web Services

#### 3.1 UploadFile

The UploadFile function is used to send a file to the bank.

The table below only shows the fields from the ApplicationRequest that is used by the UploadFile function and how these fields are interpreted by Danske Bank.

ApplicationRequest - UploadFile	
Field	Description / Value
CustomerId	The Customer User ID of the user sending the file.
Command	"UploadFile"
Timestamp	Time and date the request was made
StartDate	Not used
EndDate	Not used
Status	Not used
Serviceld	Not used
Environment	"PRODUCTION" or "TEST". If "TEST" is used on a payment file then payments are validated but not executed.
FileReference	See Appendix G
UserFileName	Used
TargetId	Not used
ExecutionSerial	Not used - but copied to ApplicationResponse if present
Encryption	Not used. Has no real meaning since this field is part of the encrypted information... Danske Bank requires data to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compression	"true" if content is compressed. If not present or value is "false" then content is regarded as uncompressed.
CompressionMethod	If Compression is true: "GZIP": Content is compressed using GZip "DEFLATE": Content is compressed using Deflate.
AmountTotal	Not used
TransactionCount	Not used
SoftwareId	Value saved in EDI Gateway at Danske Bank
CustomerExtension	Not used
FileType	See Appendix D
Content	Contains the file that should be uploaded
Signature	Signature of the user / customer for which the file was generated. ApplicationRequest has to be signed by one and only one signatur

Provided the UploadFile request was successful the following ApplicationResponse is returned:

<b>ApplicationResponse - UploadFile</b>	
<b>Field</b>	<b>Description / Value</b>
CustomerId	The Customer User ID of the user sending the file
Timestamp	Timestamp for when the ApplicationResponse was generated
ResponseCode	See Appendix C
ResponseText	Used
ExecutionSerial	Copied from ApplicationRequest if present
Encrypted	Not used. Has no real meaning since this field is part of the encrypted information... Danske Bank requires data to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compressed	Not used
CompressionMethod	Not used
AmountTotal	Not used
TransactionCount	Not used
FileDescriptors	Not used
CustomerExtension	Not used
FileType	Not used
UserFileTypes	Not used
Content	Not used
Signature	Signature of Danske Bank

### 3.2 DownloadFileList

The DownloadFileList function is used to acquire a list of files available for download using the DownloadFile function. Please notice that files that have been sent to the bank do not occur in the list.

In addition to files available for download the list can also include references to “Real time” files. These files are created upon request. For more info on those entries – see Appendix E: “Real time” files.

The table below only shows the fields from the ApplicationRequest that is used by the DownloadFileList function and how these fields are interpreted by Danske Bank.

ApplicationRequest - DownloadFileList	
Field	Description / Value
CustomerId	The Customer User ID of the user requesting the file list. Only files available for the specific user will be returned.
Command	“DownloadFileList”
Timestamp	ISODateTime of the time the request was made.
StartDate	Optional ISODate specifying the lower limit of a date-range for the request. Files from this date is included in the result.
EndDate	Optional ISODate specifying the upper limit of a date-range for the request. Files from this date is included in the result.
Status	If specified - use one of the following: “NEW” = Give me a list of files that haven’t been downloaded yet. “DLD” = Give me a list of files that have already been downloaded. Please be aware that files that have been downloaded will become unavailable overnight . “ALL” (default) = Give me a list of both new and already downloaded files.
Serviceld	Not used
Environment	Not used by Danske Bank- but mandatory acc to schema file
FileReference	Not used
UserFileName	Not used
TargetId	Not used
ExecutionSerial	Not used - but copied to ApplicationResponse if present
Encryption	Not used. Danske Bank requires the XML SOAP body to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compression	Not used
CompressionMethod	Not used
AmountTotal	Not used
TransactionCount	Not used
SoftwareId	Not used but mandatory
CustomerExtension	Not used
FileType	If used, must be one of the file types listed in Appendix D.
Content	Not used

ApplicationRequest - DownloadFileList	
Field	Description / Value
Signature	Signature of requesting user / customer.

Provided the DownloadFileList request was successful the following ApplicationResponse is returned:

ApplicationResponse - DownloadFileList	
Field	Description / Value
CustomerId	The Customer User ID of the user sending the file
Timestamp	Timestamp for when the ApplicationResponse was generated
ResponseCode	See Appendix C
ResponseText	Used
ExecutionSerial	Copied from ApplicationRequest if present
Encrypted	Not used. Danske Bank requires the XML SOAP body to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compressed	Not used
CompressionMethod	Not used
AmountTotal	Not used
TransactionCount	Not used
FileDescriptors	Populated - see Appendix A.
CustomerExtension	Not used
FileType	Not used
UserFileTypes	Not used
Content	Not used
Signature	Signature of Danske Bank

### 3.3 DownloadFile

The DownloadFile function is used to fetch one or more files from the bank - based on information received via the DownloadFileList request. DownloadFileList will provide the FileDescriptor needed to address the individual files that are available for download.

The table below only shows the fields from the ApplicationRequest that is used by the DownloadFile function and how these fields are interpreted by Danske Bank.

ApplicationRequest - DownloadFile	
Field	Description / Value
CustomerId	The Customer User ID of the user requesting the file list. Only files available for the specific user will be returned.
Command	Must contain the string "DownLoadFile".
Timestamp	ISODateTime of the time the request was made.
StartDate	Not used
EndDate	Not used
Status	Not used
Serviceld	Usage described in appendix F.
Environment	Not used by Danske Bank - but mandatory
FileReferences +FileReference	ID for the file to be downloaded. Generated via the DownloadFileList request. Please notice that FileReference can contain up to 10000 FileReferences. See appendix G
UserFileName	Not used
TargetId	Not used
ExecutionSerial	Not used - but copied to ApplicationResponse if present
Encryption	Not used. Danske Bank requires the XML SOAP body to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compression	If "true" the file (Content) will be sent in compressed form
CompressionMethod	If Compression is true: "GZIP": Content will be sent in compressed form using GZip "DEFLATE": Content will be sent in compressed form using Deflate.
AmountTotal	Not used
TransactionCount	Not used
SoftwareId	Not used by Danske Bank - but mandatory according to schema
CustomerExtension	Not used
FileType	Not used
Content	Not used
Signature	Signature of requesting user / customer.

For information on how to download "Real Time Files" - see Appendix E.

Provided the DownloadFile request was successful the following ApplicationResponse is returned:

<b>ApplicationResponse - DownloadFile</b>	
Field	Description / Value
CustomerId	The Customer User ID of the user sending the file
Timestamp	Timestamp for when the ApplicationResponse was generated
ResponseCode	See Appendix C
ResponseText	See Appendix C
ExecutionSerial	Copied from ApplicationRequest if present
Encrypted	Not used. Danske Bank requires the XML SOAP body to/from the Bank to be encrypted.
EncryptionMethod	Not used
Compressed	"true" if content is compressed. If not present or value is "false" then content is regarded as uncompressed.
CompressionMethod	If Compression is true: "GZip": Content is compressed using GZip "Deflate": Content is compressed using Deflate.
AmountTotal	Not used
TransactionCount	Not used
FileDescriptors	Not used
CustomerExtension	Not used
FileType	Not used
UserFileTypes	Not used
Content	Contains the requested files
Signature	Signature of Danske Bank



### 3.4 DeleteFile

The DeleteFile function is intended to delete a file that was sent to the bank.

This function is not implemented. To adhere to the official WSDL a dummy version of DeleteFile has been implemented. It does not delete anything and always returns with errors code "05" (DeleteFile function not implemented).

### 3.5 GetUserInfo

The GetUserInfo function is not implemented.

If used then error code "05" (GetUserInfo function not implemented) is returned.

## Appendix A: FileDescriptor

FileDescriptor is the result of a DownloadFile request. FileDescriptor provides details of each file ready for download. The details of the FileDescriptor can be used when selecting files for download.

FileDescriptor - General Description				
Field	Type	Cardinality	Definition	Danske Bank usage
FileDescriptor	Complex	[1..n]	An element containing file attributes below.	Used
+FileReference	Max32Text	[1..1]	The unique identifier for this file. The identifier is unique in the bank system within one TargetId (folder). File reference is fixed for the entire duration of the file's lifecycle. Therefore, if the client already knows the file references of the desired files (and the file type and the folder) then, for example, it is not mandatory to do a DownloadFileList operation each time prior to the DownloadFile operation	Used
+TargetId	Max80Text	[1..1]	The logical folder name where the file(s) of the customer are stored in the bank. A user can have access to several folders. A customer may want to give their users different views of files and assets that are included in the customer agreement. That can be achieved by organizing file types and assets associated to those file types into separate folders. Rule: Optional for information requests, if omitted the response will cover all files that the user has access to.	The folder name will be created from the date the file was generated: "YYYYMMDD" - as in 20091224.

FileDescriptor - General Description				
Field	Type	Cardinality	Definition	Danske Bank usage
+ServiceId	Max256Text	[0..1]	Additional identification information of the Customer, for example a Contract Number, Account Number or similar. This element is used if the CustomerId alone does not give identification that is specific enough to process the request.	See appendix F.
+ServiceIdOwnerName	Max256Text	[0..1]	Owner of the service identified by ServiceId	Not used
+UserFileName	Max80Text	[0..1]	A name given to the file by the customer. The value given in this element in the UploadFile operation is stored in the bank and shown in various listings to help the customer identify the file. Please note that the real identification of a file is the FileReference. The UserFileName field is just comment type information and is not used by bank systems. <i>Rule: This element is mandatory in the operation UploadFile and ignored in all other operations. If missing, request will be rejected, responsecode = "No File Name"</i>	Used For files based on a file order in Danske Bank's Delivery System the field UserFileName will be filled in with the 'File order name'. If '&' is a part of the File order name it will be replaced by a blank.
+ParentFileReference	Max16Text	[0..1]	A file reference to a file to which this file is related. For example this file could be a status response file to another file. This element indicates the relationship.	Used if file is a response (feedback) file.

FileDescriptor - General Description																				
Field	Type	Cardinality	Definition	Danske Bank usage																
+FileType	Max40Text	[1..1]	Specifies the type of file in the request. Can also be used as a filter in the operation DownloadFileList. The values accepted in this element are agreed upon between the customer and the bank. New file types will be added, and they will not affect the schema. A bank specific document will be provided listing commonly used FileTypes. Rule: For ISO messages, the ISO name must be used. This element is mandatory in operation UploadFile, optional in DownloadFileList, ignored in other operations.	Contains the type of file. Valid values can be found in Appendix D.																
+FileTimestamp	ISODatetime	[1..1]	The timestamp of the moment the file was created in the bank system.	Used																
+Status	Code (Max10Text)	[1..1]	<p>The status (state) of the file. One of the following codes must be used:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>WFP</td> <td>Waiting for processing</td> </tr> <tr> <td>WFC</td> <td>Waiting for confirmation</td> </tr> <tr> <td>FWD</td> <td>Forwarded to processing</td> </tr> <tr> <td>DLD</td> <td>Downloaded</td> </tr> <tr> <td>DEL</td> <td>Deleted</td> </tr> <tr> <td>NEW</td> <td>New file</td> </tr> <tr> <td>KIN</td> <td>Key-in</td> </tr> </tbody> </table>	Code	Name	WFP	Waiting for processing	WFC	Waiting for confirmation	FWD	Forwarded to processing	DLD	Downloaded	DEL	Deleted	NEW	New file	KIN	Key-in	Only values DLD and NEW are used
Code	Name																			
WFP	Waiting for processing																			
WFC	Waiting for confirmation																			
FWD	Forwarded to processing																			
DLD	Downloaded																			
DEL	Deleted																			
NEW	New file																			
KIN	Key-in																			

FileDescriptor - General Description				
Field	Type	Cardinality	Definition	Danske Bank usage
+AmountTotal	Double	[0..1]	<p>Total sum of amounts in the file.</p> <p>If the data contained in this request has monetary values, the customer can calculate the total amount of these values and place it in this field. If this element is present, the bank can compare the values in the data against the value in this element and reject the request if they do not match. The use of this check is to be agreed between the customer and the bank.</p> <p>This element can also be used in file listings and reports as comment type information to help identify data files. It is easier for the customer to say "file sent last week with total amount around 2.000 euros", instead of "file with FileReference 192830384938". It is up to the bank to decide if it takes the Amount information from this element in the request or if it calculates it from the data file.</p> <p>Rule: There is no requirement for the bank to use this element even if the file type would allow for it</p>	Not used

FileDescriptor - General Description				
Field	Type	Cardinality	Definition	Danske Bank usage
+TransactionCount	Long	[0..1]	The same use as element AmountTotal, but contains the total number of transactions in the data. What "transaction" means varies with type of data, e.g. in C2B pain.001.001.02 payment data TransactionCount is the number of <CdtTrfTxInf> elements. Rule: There is no requirement for the bank to use this element even if the file type would allow for it.	Not used
+LastDownloadTimestamp	ISODatetime	[0..1]	The timestamp of the moment this file was last downloaded by the customer. Rule: If this element does not exist, the file has not been downloaded.	Used
+ForwardedTimestamp	ISODatetime	[0..1]	The timestamp of the moment this file was forwarded to processing in the bank. Rule: If this element does not exist, the file has not been forwarded to processing.	Not used
+Confirmable	Boolean	[0..1]	Tells whether the file needs confirmation before being forwarded for processing or allowed to be downloaded. Rule: If this element does not exist, it implies the value false, i.e. not confirmable.	Not used
+Deletable	Boolean	[0..1]	Tells whether the file can be deleted by the customer. Rule: If this element does not exist, it implies the value false, i.e. not deletable.	Not used

FileDescriptor - General Description										
Field	Type	Cardinality	Definition	Danske Bank usage						
+SubStatusCode	Code (Max35Text)	[0..1]	<p>Some filetypes can have a substatus (substate), eg. Finish Payment Service filetype (LMP300) If Code One of the following codes must be used:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>HIGH</td> <td>High</td> </tr> <tr> <td>NORM</td> <td>Normal</td> </tr> </tbody> </table>	Code	Name	HIGH	High	NORM	Normal	Not used
Code	Name									
HIGH	High									
NORM	Normal									
+SubStatusText	Max70Text	[0..1]	A text describing the FileSubStatus	Not used						
+MissingTransactions	Boolean	[0..1]	<p>Checksum error indicator for certain filetypes. Rule: true if the validation of the file has discovered that the checksum in the file does not match, otherwise false</p>	Not used						
+SubType	Max35Text	[0..1]	Valid for some file types describing in more detail what the file content is	Used See subtypes in Appendix D.						
+FeedbackFileAttributes	Complex	[0..1]	Feedback file attributes	Not used						
++FeedbackFileReference	Max16Text	[1..1]	<p>The unique identifier for this file. The identifier is unique in the bank system within one TargetId (folder). This element is mandatory. File reference is fixed for the entire duration of the file's lifecycle. Therefore, if the client already knows the file references of the desired files (and the file type and the folder) then it is not mandatory to do a DownloadFileList operation each time prior to the DownLoadFile operation</p>	Not used						



FileDescriptor - General Description										
Field	Type	Cardinality	Definition	Danske Bank usage						
++FeedbackFileType	Max35Text	[0..1]	Specifies the file type of the feedback file to be used for download or detailed info. The file types are bank dependent.	Not used						
++FeedbackTypeName	Max80Text	[0..1]	The name of the feedback fileType.	Not used						
++FeedbackFileStatus	Code (Max16Text)	[0..1]	Has the feedback file already been downloaded or not. One of the following codes must be used: <table border="1" data-bbox="914 763 1222 983"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>New</td> <td>The file is new</td> </tr> <tr> <td>Down-loaded</td> <td>The file has been downloaded</td> </tr> </tbody> </table>	Code	Name	New	The file is new	Down-loaded	The file has been downloaded	Not used
Code	Name									
New	The file is new									
Down-loaded	The file has been downloaded									
++FeedbackFileDate	ISODate	[0..1]	The date when the file was created	Not used						
++FeedTimestamp	ISODateTime	[0..1]	The timestamp of the moment the file was created in the bank system.	Not used						
++FeedbackFileServiceId	Max35Text	[0..1]	Some upload fileTypes have a feedback fileType. When a feedback fileType exists the feedback-fields will be provided after a upload has been executed to help the client/user to pinpoint the feedback to the correct upload. Rule: The internal ServiceId associated with this feedback file and the feedback information is bank dependent	Not used						
++FileActionHistory	Max16Text	[0..1]	A list of actions for the file. Examples of actions are new, download etc.	Not used						

## Appendix B: List of ResponseCodes used in ResponseHeader

This section lists the valid ResponseCodes given in ResponseHeader.

ResponseCode	ResponseText	Remarks
00	OK	
01	Pending	Not used
02	SOAP signature error	Signature verification failed
03	SOAP signature error	Certificate not valid for this id
04	SOAP signature error	Certificate not valid
05	Operation unknown	
06	Operation is restricted	
07	SenderID not found	
08	SenderID locked	
09	Contract locked	
10	SenderID outdated	
11	Contract outdated	
12	Schemavalidation failed	
13	CustomerID not found	
14	CustomerID locked	
15	CustomerID outdated	
16	Product contract outdated	
17	Product contract locked	
18	Content digital signature not valid	
19	Content certificate not valid	
20	Content type not valid	
21	Deflate error	
22	Decrypt error	
23	Content processing error	
24	Content not found	
25	Content not allowed	
26	Technical error	
27	Cannot be deleted	
28	[not used]	Not used
29	Invalid parameters	
30	Authentication failed	
31	Duplicate message rejected	SOAP.Body.RequestHeader.SenderId + SOAP.Body.ReqhestHeader.RequestId
32	Duplicate ApplicationRequest Rejected	ApplicationRequest.CustomerId + ApplicationRequest.Timestamp

## Appendix C: List of ResponseCodes used in ApplicationResponse

This section lists the valid ResponseCodes given in ApplicationResponse.

ResponseCode	ResponseText	Remarks
00	OK	
01	Pending.	not used
02	SOAP signature error.	signature verification failed
03	SOAP signature error.	certificate not valid for this id
04	SOAP signature error.	certificate not valid
05	Operation unknown.	
06	Operation is restricted.	
07	SenderID not found.	
08	SenderID locked.	
09	Contract locked.	
10	SenderID outdated	
11	Contract outdated	
12	Schemavalidation failed.	
13	CustomerID not found.	
14	CustomerID locked.	
15	CustomerID outdated.	
16	Product contract outdated.	
17	Product contract locked.	
18	Content digital signature not valid.	
19	Content certificate not valid.	
20	Content type not valid.	
21	Deflate error.	
22	Decrypt error.	
23	Content processing error.	
24	Content not found.	
25	Content not allowed.	
26	Technical error.	
27	Cannot be deleted.	
28	[not used]	not used
29	Invalid parameters.	
30	Authentication failed.	
31	Duplicate message rejected.	SOAP.Body.RequestHeader.SenderId + SOAP.Body.ReqhestHeader.RequestId
32	Duplicate ApplicationRequest rejected.	ApplicationRequest.CustomerId + ApplicationRequest.Timestamp

## Appendix D: Supported file types

This appendix lists the valid string values for the FileType field of the ApplicationRequest / ApplicationResponse.

Appendix D includes file types for both UploadFile and DownloadFile.

Upload of other file types than those listed under 'Upload file types:' must be tested. Please contact Customer Support.

### Upload file types:

File type string	Description
AYEL	Finnish format: Trade union membership fees.
camt.055.001.01	ISO 20022 XML camt.055.001.01 CustomerPaymentCancellationRequest: The format is used for sending cancellation requests regarding Core and B2B SEPA Direct Debit transactions to Collection Service. The format is also used for sending cancellation requests regarding payments initiated in message types: pain.001.001.02 and pain.001.001.03.
FALL	Finnish format: Factoring invoices for Danske Finance.
FILL	Finnish format: Transmission of Invoices or Direct Payments
FIPL	Finnish Finvoice format: Receiver Proposal
FISL	Finnish Finvoice format: Sender info
IBAL	Finnish format: BBAN account numbers to be converted to IBAN.
OL2L	Finnish format : Payment of domestic invoices LMO2 & Express Giro.
OL3L	Finnish format : Payment of domestic invoices LMO3 & Express Giro.
pain.001.001.02	The Payment Standards Initiation format from ISO 20022 XML in version 2
pain.001.001.03	The CustomerCreditTransferInitiation message from ISO 20022 XML, version 3
pain.008.001.02	SEPA Direct Debit Initiation XML format: ISO 20022 - pain.008.001.02 (Direct Debit Initiation) The format is used for sending Core and B2B SEPA Direct Debit transactions to Collection Service.
PELL	Finnish format : Regular payments - e.g. Salaries.
SOVL	Finnish format: Common Transfer - Customer specific material transfers from customer; various purposes, no common file structure.
ULJL	Finnish format: State officer files to the bank (Ministry of justice).
UM2L	Finnish format : Foreign payment / LUM2.
UMTL	Global Transfer (SWIFT MT101). - only used in Finland
<i>Must be omitted</i>	EDIFACT 96 A format: PAYMUL
<i>Must be omitted</i>	EDIFACT 96A format: DIRDEB
<i>Must be omitted</i>	Danske Bank commaseparated format: Payment files CMBO,CMUO,CMGB,CMBODK,CMSI,CMNI,CMFI,CMDE,CMGBDC,CMII, CMUOGB,CMIIDC,CMUOIE,CMUO10,CMUOSE,CMUOFI,CMUODE,CMUONO
<i>Must be omitted</i>	Danske Bank commaseparated format: Collection files COLLECTION,COLDEBMOD,COLDELETE
<i>Must be omitted</i>	Danske Bank Idoc format: Payment file
<i>Must be omitted</i>	MT101 format
<i>Must be omitted</i>	MT104 format
<i>Must be omitted</i>	EFTS format

<i>Must be omitted</i>	BACS format (Header is required - contact Customer Support)
<i>Must be omitted</i>	Norwegian BBS format
<i>Must be omitted</i>	Norwegian Telepay format
<i>Must be omitted</i>	Swedish UtLands LB format
<i>Must be omitted</i>	Swedish Autogiro format
<i>Must be omitted</i>	Swedish LB format
<i>Must be omitted</i>	Swedish BG Invoice format
<i>Must be omitted</i>	Swedish KI Löner
<i>Must be omitted</i>	OIOXML format
<i>Must be omitted</i>	OIOUBL format: UBLINV,UBLREM,UBLRES,UBLORD,UBLORS,UBLCRE
<i>Must be omitted</i>	The CustomerPaymentCancellationRequest format from ISO 20022 XML in version 1: camt.055.001.01

**Download file types:**

FileType can be used for identifying the various files in the DownLoadFileList

File type string	Description										
AG	Swedish Autogiro format (new and old format) An additional subtype will be delivered										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SPE</td> <td>Payments specification and Rejected payments in balance check inquiry</td> </tr> <tr> <td>MAN</td> <td>Mandate advice</td> </tr> <tr> <td>REJ</td> <td>Rejected payment orders</td> </tr> <tr> <td>CAN</td> <td>Cancellation/change of payments</td> </tr> </tbody> </table>	Code	Name	SPE	Payments specification and Rejected payments in balance check inquiry	MAN	Mandate advice	REJ	Rejected payment orders	CAN	Cancellation/change of payments
	Code	Name									
	SPE	Payments specification and Rejected payments in balance check inquiry									
	MAN	Mandate advice									
	REJ	Rejected payment orders									
CAN	Cancellation/change of payments										
APSN	Finnish format: Balance information (Real time request).										
BALR	Finnish format: Balance information for DB, Helsinki branch										
BANSTA96A	EDIFACT 96A format: Status file An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>MFB</td> <td>Status file</td> </tr> </tbody> </table>	Code	Name	MFB	Status file						
	Code	Name									
MFB	Status file										
BGCRMO	Swedish Returned money orders from BankGiro										
BGCVOL	Corporate Reporting Bankgiro statistics										
BG_MAX	Swedish BG Max format An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>BGI</td> <td>Pass-through file from BankGiro</td> </tr> </tbody> </table>	Code	Name	BGI	Pass-through file from BankGiro						
	Code	Name									
	BGI	Pass-through file from BankGiro									
BGMAX	Swedish BG Max format: Credit entries An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries						
	Code	Name									
KRE	Credit entries										
BIL	Swedish BILD format An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>IMA</td> <td>Pass-through file from BankGiro</td> </tr> </tbody> </table>	Code	Name	IMA	Pass-through file from BankGiro						
	Code	Name									
IMA	Pass-through file from BankGiro										
DEBADV921	EDIFACT 92-1 format: Debit entries An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEB</td> <td>Debit entries</td> </tr> </tbody> </table>	Code	Name	DEB	Debit entries						
	Code	Name									
DEB	Debit entries										
DEBADV96A	EDIFACT 96A format (single payment): Debit entries An additional subtype will be delivered:										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEB</td> <td>Debit entries</td> </tr> </tbody> </table>	Code	Name	DEB	Debit entries						
	Code	Name									
DEB	Debit entries										

DEBMUL96A	<p>EDIFACT 96A format: Debit entries An additional subtype will be delivered:</p> <table border="1" data-bbox="488 293 1431 360"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEB</td> <td>Debit entries</td> </tr> </tbody> </table>	Code	Name	DEB	Debit entries						
Code	Name										
DEB	Debit entries										
camt.029.001.03	<p>ISO 20022 XML ResolutionOfInvestigation format: A status file to camt.055.001.01 CustomerPaymentCancellationRequest. Camt.029.001.03 is only available for payment cancellations - not SEPA DD cancellations. An additional subtype will be delivered:</p> <table border="1" data-bbox="488 546 1431 613"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>MFB</td> <td>Status file</td> </tr> </tbody> </table>	Code	Name	MFB	Status file						
Code	Name										
MFB	Status file										
camt.052.001.02	<p>ISO 20022 XML BankToCustomerAccountReport format: Account Report An additional subtype will be delivered:</p> <table border="1" data-bbox="488 734 1431 835"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>BAL</td> <td>Balance Information</td> </tr> <tr> <td>ACC</td> <td>Account Entries</td> </tr> </tbody> </table>	Code	Name	BAL	Balance Information	ACC	Account Entries				
Code	Name										
BAL	Balance Information										
ACC	Account Entries										
camt.053.001.02	<p>ISO 20022 XML BankToCustomerStatement format: Account Statement(End of day) An additional subtype will be delivered:</p> <table border="1" data-bbox="488 958 1431 1025"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account Statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account Statement						
Code	Name										
FIN	Account Statement										
camt.054.001.02	<p>ISO 20022 XML BankToCustomerDebitCreditNotification format: DebitCreditNotification An additional subtype will be delivered in DCN-file:</p> <table border="1" data-bbox="488 1160 1431 1361"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DNOT</td> <td>All Debit notification</td> </tr> <tr> <td>CNOT</td> <td>All Credit notification</td> </tr> <tr> <td>DCNOT</td> <td>Both Debit and Credit notification</td> </tr> <tr> <td>FBFOPFI</td> <td>Feedback on Foreign Payments (product only available in Finland)</td> </tr> </tbody> </table>	Code	Name	DNOT	All Debit notification	CNOT	All Credit notification	DCNOT	Both Debit and Credit notification	FBFOPFI	Feedback on Foreign Payments (product only available in Finland)
Code	Name										
DNOT	All Debit notification										
CNOT	All Credit notification										
DCNOT	Both Debit and Credit notification										
FBFOPFI	Feedback on Foreign Payments (product only available in Finland)										
CAP	<p>Fixed format in Ireland and UK : Customer Account Postings An additional subtype will be delivered in DCN-file:</p> <table border="1" data-bbox="488 1451 1431 1585"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>CAP-DNOT</td> <td>Debit notification</td> </tr> <tr> <td>CAP-CNOT</td> <td>Credit notification</td> </tr> <tr> <td>CAP-DCNOT</td> <td>Debit and Credit notification</td> </tr> </tbody> </table>	Code	Name	CAP-DNOT	Debit notification	CAP-CNOT	Credit notification	CAP-DCNOT	Debit and Credit notification		
Code	Name										
CAP-DNOT	Debit notification										
CAP-CNOT	Credit notification										
CAP-DCNOT	Debit and Credit notification										
CAPCSV	<p>Danske Bank comma-separated format: Customer Account Postings An additional subtype will be delivered in DCN-file:</p> <table border="1" data-bbox="488 1675 1431 1809"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>CAP-DNOT</td> <td>Debit notification</td> </tr> <tr> <td>CAP-CNOT</td> <td>Credit notification</td> </tr> <tr> <td>CAP-DCNOT</td> <td>Debit and Credit notification</td> </tr> </tbody> </table>	Code	Name	CAP-DNOT	Debit notification	CAP-CNOT	Credit notification	CAP-DCNOT	Debit and Credit notification		
Code	Name										
CAP-DNOT	Debit notification										
CAP-CNOT	Credit notification										
CAP-DCNOT	Debit and Credit notification										

CAPUDD	Danske Bank comma-separated format: Customer Account Postings with unpaid Direct Debits An additional subtype will be delivered in DCN-file:	
	Code	Name
	CAP-DNOT	Debit notification
	CAP-CNOT	Credit notification
	CAP-DCNOT	Debit and Credit notification
CHD	Danske Bank giro format: List of cheque debits	
CHK	Danske Bank giro format: Processing list of cheques	
CMDPF	Danske Bank fixed format: Custody funds with mortgages An additional subtype will be delivered:	
	Code	Name
	VPD	Custody funds
CMDPK	Danske Bank comma-separated format: Custody funds with mortgages An additional subtype will be delivered:	
	Code	Name
	VPD	Custody funds
CMDAOF	Danske Bank fixed format: Custody funds with shares and bonds An additional subtype will be delivered:	
	Code	Name
	VPD	Custody funds
CMDAOK	Danske Bank comma-separated format: Custody funds with shares and bonds An additional subtype will be delivered:	
	Code	Name
	VPD	Custody funds
CMMFAST	Danske Bank fixed format: Joint inpayment forms An additional subtype will be delivered:	
	Code	Name
	FIK	Joint Inpayment forms
CMMKOM	Danske Bank comma-separated format: Joint inpayment forms An additional subtype will be delivered:	
	Code	Name
	FIK	Joint Inpayment forms
CMMSEKT	Danske Bank standard format: Joint inpayment forms An additional subtype will be delivered:	
	Code	Name
	FIK	Joint Inpayment forms
CMMBG8	Danske Bank giro format: Joint inpayment forms with end-record	
CMMBGX	Danske Bank giro format: Joint inpayment forms with an additional kind-record	
CMKS	Danske Bank comma-separated format: Balance information An additional subtype will be delivered:	
	Code	Name
	SLI	Balance information



<p>CMKSCP</p>	<p>Danske Bank comma-separated format: Balance information including external account number, currency codes, interest balance and booked balance An additional subtype will be delivered:</p> <table border="1" data-bbox="488 353 1431 421"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SLI</td> <td>Balance information</td> </tr> </tbody> </table>	Code	Name	SLI	Balance information
Code	Name				
SLI	Balance information				
<p>CMKSIA</p>	<p>Danske Bank comma-separated format: Balance information including external account number, currency codes, interest balance, booked balance, accrued interest and interest date An additional subtype will be delivered:</p> <table border="1" data-bbox="488 577 1431 645"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SLI</td> <td>Balance information</td> </tr> </tbody> </table>	Code	Name	SLI	Balance information
Code	Name				
SLI	Balance information				
<p>CMKSVA</p>	<p>Danske Bank comma-separated format: Balance information with currence codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 768 1431 835"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SLI</td> <td>Balance information</td> </tr> </tbody> </table>	Code	Name	SLI	Balance information
Code	Name				
SLI	Balance information				
<p>CMKU</p>	<p>Danske Bank comma-separated format: Entries An additional subtype will be delivered:</p> <table border="1" data-bbox="488 925 1431 992"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTO</td> <td>Entries</td> </tr> </tbody> </table>	Code	Name	PTO	Entries
Code	Name				
PTO	Entries				
<p>CMKUVA</p>	<p>Danske Bank comma-separated format: Entries including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1120 1431 1187"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTO</td> <td>Entries</td> </tr> </tbody> </table>	Code	Name	PTO	Entries
Code	Name				
PTO	Entries				
<p>CMKV</p>	<p>Danske Bank comma-separated format (non-recurring file orders): Entries An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1314 1431 1382"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTO</td> <td>Entries</td> </tr> </tbody> </table>	Code	Name	PTO	Entries
Code	Name				
PTO	Entries				
<p>CMKVVA</p>	<p>Danske Bank comma-separated format: (non-recurring file orders): Entries including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1503 1431 1570"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTO</td> <td>Entries</td> </tr> </tbody> </table>	Code	Name	PTO	Entries
Code	Name				
PTO	Entries				
<p>CMKXFST</p>	<p>Danske Bank fixed format: Entries for reconciliation An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1666 1431 1733"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXFVA</p>	<p>Danske Bank fixed format: Entries for reconciliation including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1856 1431 1924"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				

<p>CMKXKOM</p>	<p>Danske Bank comma-separated format: Entries for reconciliation An additional subtype will be delivered:</p> <table border="1" data-bbox="488 293 1431 360"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXKOX</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including external account number An additional subtype will be delivered:</p> <table border="1" data-bbox="488 483 1431 551"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXKVA</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 674 1431 741"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXK VX</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including external account number and currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 866 1431 934"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXKUX</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including external account number, currency codes and extended advice An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1059 1431 1126"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXSAL</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including balance An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1252 1431 1319"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMKXKSX</p>	<p>Danske Bank comma-separated format: Entries for reconciliation including external account number, currency codes, extended advice and balance An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1476 1431 1543"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PTX</td> <td>Entries for reconciliation</td> </tr> </tbody> </table>	Code	Name	PTX	Entries for reconciliation
Code	Name				
PTX	Entries for reconciliation				
<p>CMTLF</p>	<p>Danske Bank fixed format: Forward rate and options transactions specified with Contract and sub-trade number An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1666 1431 1733"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TRM</td> <td>Forward rate and options transactions</td> </tr> </tbody> </table>	Code	Name	TRM	Forward rate and options transactions
Code	Name				
TRM	Forward rate and options transactions				
<p>CMTLK</p>	<p>Danske Bank comma-separated format: Forward rate and options transactions specified with Contract and sub-trade number An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1865 1431 1933"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TRM</td> <td>Forward rate and options transactions</td> </tr> </tbody> </table>	Code	Name	TRM	Forward rate and options transactions
Code	Name				
TRM	Forward rate and options transactions				

CMTLFF	<p>Danske Bank fixed format: Forward rate and options transactions specified with Trade number An additional subtype will be delivered:</p> <table border="1" data-bbox="488 320 1431 387"> <thead> <tr> <th data-bbox="488 320 890 353">Code</th> <th data-bbox="890 320 1431 353">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 353 890 387">TRM</td> <td data-bbox="890 353 1431 387">Forward rate and options transactions</td> </tr> </tbody> </table>	Code	Name	TRM	Forward rate and options transactions
Code	Name				
TRM	Forward rate and options transactions				
CMTLFK	<p>Danske Bank comma-separated format: Forward rate and options transactions specified with Trade number An additional subtype will be delivered:</p> <table border="1" data-bbox="488 510 1431 577"> <thead> <tr> <th data-bbox="488 510 890 544">Code</th> <th data-bbox="890 510 1431 544">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 544 890 577">TRM</td> <td data-bbox="890 544 1431 577">Forward rate and options transactions</td> </tr> </tbody> </table>	Code	Name	TRM	Forward rate and options transactions
Code	Name				
TRM	Forward rate and options transactions				
CMVCLH	<p>Danske Bank fixed format: Balances for currency accounts An additional subtype will be delivered:</p> <table border="1" data-bbox="488 674 1431 741"> <thead> <tr> <th data-bbox="488 674 890 707">Code</th> <th data-bbox="890 674 1431 707">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 707 890 741">SLU</td> <td data-bbox="890 707 1431 741">Balances for currency accounts</td> </tr> </tbody> </table>	Code	Name	SLU	Balances for currency accounts
Code	Name				
SLU	Balances for currency accounts				
CMVCLHV	<p>Danske Bank fixed format: Balances for currency accounts including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 869 1431 936"> <thead> <tr> <th data-bbox="488 869 890 902">Code</th> <th data-bbox="890 869 1431 902">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 902 890 936">SLU</td> <td data-bbox="890 902 1431 936">Balances for currency accounts</td> </tr> </tbody> </table>	Code	Name	SLU	Balances for currency accounts
Code	Name				
SLU	Balances for currency accounts				
CMVCLPO	<p>Danske Bank comma-separated format: Balances for currency accounts An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1025 1431 1093"> <thead> <tr> <th data-bbox="488 1025 890 1059">Code</th> <th data-bbox="890 1025 1431 1059">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1059 890 1093">SLU</td> <td data-bbox="890 1059 1431 1093">Balances for currency accounts</td> </tr> </tbody> </table>	Code	Name	SLU	Balances for currency accounts
Code	Name				
SLU	Balances for currency accounts				
CMVCLPV	<p>Danske Bank comma-separated format: Balances for currency accounts including currency codes An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1220 1431 1288"> <thead> <tr> <th data-bbox="488 1220 890 1254">Code</th> <th data-bbox="890 1220 1431 1254">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1254 890 1288">SLU</td> <td data-bbox="890 1254 1431 1288">Balances for currency accounts</td> </tr> </tbody> </table>	Code	Name	SLU	Balances for currency accounts
Code	Name				
SLU	Balances for currency accounts				
CMVCLP1	<p>Danske Bank comma-separated format: Balances for currency accounts including currency codes and expiry date An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1411 1431 1478"> <thead> <tr> <th data-bbox="488 1411 890 1444">Code</th> <th data-bbox="890 1411 1431 1444">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1444 890 1478">SLU</td> <td data-bbox="890 1444 1431 1478">Balances for currency accounts</td> </tr> </tbody> </table>	Code	Name	SLU	Balances for currency accounts
Code	Name				
SLU	Balances for currency accounts				
COLLACK	<p>Danske Bank comma-separated format: Network receipt An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1570 1431 1637"> <thead> <tr> <th data-bbox="488 1570 890 1603">Code</th> <th data-bbox="890 1570 1431 1603">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1603 890 1637">ACK</td> <td data-bbox="890 1603 1431 1637">An acknowledgement file</td> </tr> </tbody> </table>	Code	Name	ACK	An acknowledgement file
Code	Name				
ACK	An acknowledgement file				
CRECSF	<p>Danske Bank comma-separated format: Credit entries An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1731 1431 1798"> <thead> <tr> <th data-bbox="488 1731 890 1765">Code</th> <th data-bbox="890 1731 1431 1765">Name</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1765 890 1798">KRE</td> <td data-bbox="890 1765 1431 1798">Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries
Code	Name				
KRE	Credit entries				

CREEXT96A	EDIFACT 96A (single payment):Credit entries An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries		
Code	Name						
KRE	Credit entries						
CREM96A	EDIFACT 96A format: An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIK</td> <td>Joint inpayment forms</td> </tr> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	FIK	Joint inpayment forms	KRE	Credit entries
Code	Name						
FIK	Joint inpayment forms						
KRE	Credit entries						
CUD	Danske Bank giro format: List of issued cheques						
DCRE96A	EDIFACT 96A format (Swedish payments with BGMAX summary): Credit entries An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries		
Code	Name						
KRE	Credit entries						
EF	Swedish Autogiro format (new and old format) An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>MVI</td> <td>Mandates via the Internet Bank</td> </tr> </tbody> </table>	Code	Name	MVI	Mandates via the Internet Bank		
Code	Name						
MVI	Mandates via the Internet Bank						
ERP	Danske Bank XML-format: STP of Forex Trades An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ERP</td> <td>STP of Forex Trades</td> </tr> </tbody> </table>	Code	Name	ERP	STP of Forex Trades		
Code	Name						
ERP	STP of Forex Trades						
FEEGSC	Corporate Reporting FEE Global Service Code Report						
FILN	Finnish Finvoice format: Retrieval of Invoices or Direct Payments.						
FINS921	EDIFACT 92-1 format: Account statement An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement		
Code	Name						
FIN	Account statement						
FINS96A	EDIFACT 96A format: Account statement An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement		
Code	Name						
FIN	Account statement						
FINVKS	Danske Bank fixed format: Exchange rates - the European Central Bank's buying, selling and average rates An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates		
Code	Name						
VKS	Exchange rates						
FIRN	Finnish Finvoice format: Receiver info						
FIVN	Finnish Finvoice format: Retrieval of error messages (ack)						

HTMLCRE	<p>Readable format: Credit entries An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries
Code	Name				
KRE	Credit entries				
HTLMDEBA	<p>Readable format: Debit entries An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEB</td> <td>Debit entries</td> </tr> </tbody> </table>	Code	Name	DEB	Debit entries
Code	Name				
DEB	Debit entries				
HTMLFIK	<p>Readable format: Joint Inpayment forms An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEB</td> <td>Joint Inpayment forms</td> </tr> </tbody> </table>	Code	Name	DEB	Joint Inpayment forms
Code	Name				
DEB	Joint Inpayment forms				
HTMLMFB	<p>Readable format: Status file An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>MFB</td> <td>Status file</td> </tr> </tbody> </table>	Code	Name	MFB	Status file
Code	Name				
MFB	Status file				
IBAN	Finnish format: IBAN account numbers converted from BBAN.				
IBK	Danske Bank giro format: Giro Inpayments Forms				
IDOCACK	<p>Danske Bank Idoc format: Acknowledgement file An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ACK</td> <td>An acknowledgement file</td> </tr> </tbody> </table>	Code	Name	ACK	An acknowledgement file
Code	Name				
ACK	An acknowledgement file				
IKB	Danske Bank giro format: Inpayments with voucher				
IKO	Danske Bank giro format: Inpayments - personnel welfare dept.				
IMG-IMAGE	<p>Danske Bank format: Images</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>IMG</td> <td>Images</td> </tr> </tbody> </table>	Code	Name	IMG	Images
Code	Name				
IMG	Images				
IMIN	<p>Danske Bank comma-separated format: International MultiCurrency Interest Netting An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>IMN</td> <td>International MultiCurrency Interest Netting</td> </tr> </tbody> </table>	Code	Name	IMN	International MultiCurrency Interest Netting
Code	Name				
IMN	International MultiCurrency Interest Netting				
INC	<p>Danske Bank comma-separated format: Incentive programme An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>INC</td> <td>Incentive programme</td> </tr> </tbody> </table>	Code	Name	INC	Incentive programme
Code	Name				
INC	Incentive programme				
KMHN	Finnish format: Information to KELA about problems within student loans.				
KMVN	Finnish format: Claim from Bank to KELA.				
KNR	Danske Bank giro format: Processing list of customer numbers				
KOMBANSTA	<p>Danske Bank comma-separated format: Status file An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>MFB</td> <td>Status file</td> </tr> </tbody> </table>	Code	Name	MFB	Status file
Code	Name				
MFB	Status file				

KOMDEBOVS	Danske Bank comma-separated format: List of debtors An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>DEO</td> <td>List of debtors</td> </tr> </tbody> </table>	Code	Name	DEO	List of debtors								
Code	Name												
DEO	List of debtors												
KOMSTATMED	Danske Bank comma-separated format: Status file on collection or debtor amendment An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>PSR</td> <td>Payment Status Report</td> </tr> </tbody> </table>	Code	Name	PSR	Payment Status Report								
Code	Name												
PSR	Payment Status Report												
KONTOAF	Norwegian fixed format: Bank reconciliation An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KAF</td> <td>Bank reconciliation</td> </tr> </tbody> </table>	Code	Name	KAF	Bank reconciliation								
Code	Name												
KAF	Bank reconciliation												
KTAFKOM	Norwegian standard comma-separated format: Bank reconciliation An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KAF</td> <td>Bank reconciliation</td> </tr> </tbody> </table>	Code	Name	KAF	Bank reconciliation								
Code	Name												
KAF	Bank reconciliation												
KTPSKOM	Norwegian simple comma-separated format: Bank reconciliation An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KAF</td> <td>Bank reconciliation</td> </tr> </tbody> </table>	Code	Name	KAF	Bank reconciliation								
Code	Name												
KAF	Bank reconciliation												
KTO	Danske Bank giro format: Processing list account-to-account												
KTON	Finnish format: Account Statement												
LB	Swedish Leverantörsbetalningar format An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SPE</td> <td>Payments specification with payment types</td> </tr> <tr> <td>REC</td> <td>Reconciliation report</td> </tr> <tr> <td>STO</td> <td>Stopped payments</td> </tr> <tr> <td>REJ</td> <td>Rejected payments</td> </tr> <tr> <td>CAN</td> <td>Cancellations and date amendments</td> </tr> </tbody> </table>	Code	Name	SPE	Payments specification with payment types	REC	Reconciliation report	STO	Stopped payments	REJ	Rejected payments	CAN	Cancellations and date amendments
Code	Name												
SPE	Payments specification with payment types												
REC	Reconciliation report												
STO	Stopped payments												
REJ	Rejected payments												
CAN	Cancellations and date amendments												
LKC	Danske Bank giro format: Countermanded cheques												
LØN	Danske Bank giro format: Processing list salary												
MCF	MasterCard Corporate Card invoice												
MCT	MasterCard Corporate Card transactions												
MT199	MT199 format Free format message An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>REJECTED</td> <td>A feedback file (after validation of payment)</td> </tr> </tbody> </table>	Code	Name	REJECTED	A feedback file (after validation of payment)								
Code	Name												
REJECTED	A feedback file (after validation of payment)												
MT900	MT900 format Confirmation of debit An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>BOOKED</td> <td>A feedback file (after payment execution)</td> </tr> </tbody> </table>	Code	Name	BOOKED	A feedback file (after payment execution)								
Code	Name												
BOOKED	A feedback file (after payment execution)												

<p>MT94</p>	<p>MT940 Finnish file type format (Standard version) for Danske Bank, Helsinki branch An additional subtype will be delivered:</p> <table border="1" data-bbox="488 322 1431 389"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
<p>MT940DE</p>	<p>MT940 format (German version): Account statement An additional subtype will be delivered:</p> <table border="1" data-bbox="488 483 1431 551"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
<p>MT940SP</p>	<p>MT940 format (SAP version): Account statement An additional subtype will be delivered:</p> <table border="1" data-bbox="488 640 1431 707"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
<p>MT940SW</p>	<p>MT940 format (Standard version): Account statement An additional subtype will be delivered:</p> <table border="1" data-bbox="488 801 1431 869"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
<p>MT941SW</p>	<p>MT941 format Balance information An additional subtype will be delivered:</p> <table border="1" data-bbox="488 965 1431 1032"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SLI</td> <td>Balance information</td> </tr> </tbody> </table>	Code	Name	SLI	Balance information
Code	Name				
SLI	Balance information				
<p>MT942DE</p>	<p>MT942 format (German version): Transaction Report An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1133 1431 1200"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TRE</td> <td>Transaction Report</td> </tr> </tbody> </table>	Code	Name	TRE	Transaction Report
Code	Name				
TRE	Transaction Report				
<p>MT942SW</p>	<p>MT942 format (Standard version): Transaction Report An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1290 1431 1357"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TRE</td> <td>Transaction Report</td> </tr> </tbody> </table>	Code	Name	TRE	Transaction Report
Code	Name				
TRE	Transaction Report				
<p>NCRE96A</p>	<p>EDIFACT 96A format (Norwegian payments): Credit entries An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1451 1431 1518"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries
Code	Name				
KRE	Credit entries				
<p>NOKVKSF</p>	<p>Danske Bank fixed format: Exchange rates - the Norwegian National Bank's buying, selling and average rates An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1641 1431 1709"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				
<p>NOKVSKS</p>	<p>Danske Bank comma-separated format: Exchange rates - the Norwegian National Bank's buying, selling and average rates An additional subtype will be delivered:</p> <table border="1" data-bbox="488 1832 1431 1899"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				

OTUXML	<p>Readable format: Transfers abroad An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>OUT</td> <td>Transfers abroad</td> </tr> </tbody> </table>	Code	Name	OUT	Transfers abroad				
Code	Name								
OUT	Transfers abroad								
OFUXML	<p>Readable format: Transfers from abroad An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>OFU</td> <td>Transfers from abroad</td> </tr> </tbody> </table>	Code	Name	OFU	Transfers from abroad				
Code	Name								
OFU	Transfers from abroad								
OIOXMLCRE	OIOXML format: Creditnote								
OIOXMLINV	OIOXML format: Invoice								
OTHERDATA	Pass through files								
pain.002.001.02	<p>ISO 20022 XML Payment Status Report version 2. Used for both acknowledgement and feedback and is generated as a result of an incoming ISO 20022 XML pain.001.001.02 CustomerCreditTransferInitiation message</p> <p>An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ACK</td> <td>An acknowledgement file (after validation of format)</td> </tr> <tr> <td>BOOKED</td> <td>A feedback file (after payment execution)</td> </tr> <tr> <td>REJECTED</td> <td>A feedback file (after validation of payment)</td> </tr> </tbody> </table>	Code	Name	ACK	An acknowledgement file (after validation of format)	BOOKED	A feedback file (after payment execution)	REJECTED	A feedback file (after validation of payment)
Code	Name								
ACK	An acknowledgement file (after validation of format)								
BOOKED	A feedback file (after payment execution)								
REJECTED	A feedback file (after validation of payment)								
pain.002.001.03	<p>ISO 20022 XML CustomerPaymentStatusReport version 3. Used for both acknowledgement and feedback.</p> <p>An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ACK</td> <td>An acknowledgement file (after validation of format)</td> </tr> <tr> <td>BOOKED</td> <td>A feedback file (after payment execution)</td> </tr> <tr> <td>REJECTED</td> <td>A feedback file (after validation of payment)</td> </tr> </tbody> </table>	Code	Name	ACK	An acknowledgement file (after validation of format)	BOOKED	A feedback file (after payment execution)	REJECTED	A feedback file (after validation of payment)
Code	Name								
ACK	An acknowledgement file (after validation of format)								
BOOKED	A feedback file (after payment execution)								
REJECTED	A feedback file (after validation of payment)								
SCRE96A	<p>EDIFACT 96A format (Swedish payments): Credit entries An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KRE</td> <td>Credit entries</td> </tr> </tbody> </table>	Code	Name	KRE	Credit entries				
Code	Name								
KRE	Credit entries								
SEKVKSF	<p>Danske Bank fixed format: Exchange rates - the Swedish National Bank's buying, selling and average rates An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates				
Code	Name								
VKS	Exchange rates								
SEKVKSK	<p>Danske Bank comma-separated format: Exchange rates - the Swedish National Bank's buying, selling and average rates An additional subtype will be delivered:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates				
Code	Name								
VKS	Exchange rates								
SOVN	Finnish format: Common Transfer - Customer specific material transfers to customer; various purposes, no common file structure.								
SWFN	Finnish format: SWIFT account statement								



SWMT9XO	MT940 format (old SAP version): Account statement An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
SWMTSTD	MT940 format (old standard version): Account statement An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
TAPN	Finnish format: Account entries(Real time request).				
TITO	Finnish format for DB, Helsinki branch: Basic transaction list An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				
TLPR2	Telepay format: Return advices for processed payments An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TLP</td> <td>Return advices for processed payments</td> </tr> </tbody> </table>	Code	Name	TLP	Return advices for processed payments
Code	Name				
TLP	Return advices for processed payments				
TR1	Telepay format: Acknowledgement Receipt An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TR1</td> <td>Acknowledgement Receipt</td> </tr> </tbody> </table>	Code	Name	TR1	Acknowledgement Receipt
Code	Name				
TR1	Acknowledgement Receipt				
TRANVOL	Corporate Reporting Transaction Volume Report				
TRRE	Finnish legacy format: - Basic transaction list				
UBLCRE	UBL 2.0 format: Creditnote				
UBLINV	UBL 2.0 format: Invoice				
UBLORS	UBL 2.0 format: Order Response Simple				
UBLREM	UBL 2.0 format: Reminder				
UBLRES	UBL 2.0 format: ApplicationResponse				
ULJN	Finnish format: State officer files from the bank (Ministry of justice).				
UM2N	Finnish format: Feedback on foreign payments				
USEN	Finnish format: Incoming foreign payments (Real time request).				
VAKDK	Danske Bank comma-separated format: Exchange cross rates against DKK An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKK</td> <td>Currence cross rates</td> </tr> </tbody> </table>	Code	Name	VKK	Currence cross rates
Code	Name				
VKK	Currence cross rates				
VAKDKD	Danske Bank fixed-separated format: Exchange cross rates against DKK An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKK</td> <td>Currence cross rates</td> </tr> </tbody> </table>	Code	Name	VKK	Currence cross rates
Code	Name				
VKK	Currence cross rates				
VAKNO	Danske Bank comma-separated format: Exchange rates - the Danish National Bank's middle rates An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				

VAKNOD	Danske Bank fixed format: Exchange rates - the Danish National Bank's middle rates An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				
VAKUN	Danske Bank fixed format: Exchange rates - Danske Bank's selling rates An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				
VAKUS	Danske Bank comma-separated format: Exchange cross rates against USD An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKK</td> <td>Currence cross rates</td> </tr> </tbody> </table>	Code	Name	VKK	Currence cross rates
Code	Name				
VKK	Currence cross rates				
VARI	Danske Bank comma-separated format: Currency interest rates on deposits An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VRS</td> <td>Currency interest rates</td> </tr> </tbody> </table>	Code	Name	VRS	Currency interest rates
Code	Name				
VRS	Currency interest rates				
VARU	Danske Bank comma-separated format: Currency interest rates on loans An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VRS</td> <td>Currency interest rates</td> </tr> </tbody> </table>	Code	Name	VRS	Currency interest rates
Code	Name				
VRS	Currency interest rates				
VARUD	Danske Bank comma-separated format: Currency interest rates on loans An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VRS</td> <td>Currency interest rates</td> </tr> </tbody> </table>	Code	Name	VRS	Currency interest rates
Code	Name				
VRS	Currency interest rates				
VKKFST	Danske Bank fixed format: Exchange cross rates with optional counter currency An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKK</td> <td>Currence cross rates</td> </tr> </tbody> </table>	Code	Name	VKK	Currence cross rates
Code	Name				
VKK	Currence cross rates				
VKKKOM	Danske Bank comma-separated format: Exchange cross rates with optional counter currency An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKK</td> <td>Currence cross rates</td> </tr> </tbody> </table>	Code	Name	VKK	Currence cross rates
Code	Name				
VKK	Currence cross rates				
VKSFAST	Danske Bank fixed format: Exchange rates An additional subtype will be delivered: <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				

VKSKOM	Danske Bank comma-separated format: Exchange rates An additional subtype will be delivered:				
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VKS</td> <td>Exchange rates</td> </tr> </tbody> </table>	Code	Name	VKS	Exchange rates
Code	Name				
VKS	Exchange rates				
VIPN	Finnish format: - Basic transaction list - Factoring invoices for Danske Finance.				
VK01	Finnish format: EUR currency rates for DB, Helsinki branch				
VKEN	Finnish format: Exchange rates.				
XMLTITO	Danske Bank XML format: Account statement An additional subtype will be delivered:				
	<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>FIN</td> <td>Account statement</td> </tr> </tbody> </table>	Code	Name	FIN	Account statement
Code	Name				
FIN	Account statement				

### Appendix E: “Real time” files

When executing the DownloadFileList function the list of FileDescriptors returned can contain a mixture of entries that refers to either files available for download or “Real time” files that will be generated upon request (DownloadFile).

An individual FileDescriptor for a file ready for download can look like this:

```
<FileDescriptor>
  <FileReference>1004160005-1004160750</FileReference>
  <TargetId>20100416</TargetId>
  <FileType>pain.002.001.01</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
</FileDescriptor>
```

Users can request real time balances and postings using field FileReference in operation DownloadFile directly. There are three types of requests available. They are described in detail in the sub-sections of this appendix.

TAPN, APSN and USEN can only be requested on accounts held with Danske Bank, whereas CAMT.052 can be requested on all accounts held with Danske Bank Group.

#### TAPN/CAMT.052 - Last 50/200 postings

If there are TAPN-files available - the result from a call to DownloadFileList will also contain entries like these:

```
<FileDescriptors>
...
  <FileDescriptor>
    <FileReference>TAPNFI8516344400211864</FileReference>
    <TargetId>20100416</TargetId>
    <ServiceId>FI8516344400211864</ServiceId>
    <FileType>TAPN</FileType>
    <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
    <Status>NEW</Status>
```

```

</FileDescriptor>
<FileDescriptor>
  <FileReference>TAPNFI8529141722212410</FileReference>
  <TargetId>20100416</TargetId>
  <ServiceId>FI8529141722212410</ServiceId>
  <FileType>TAPN</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
</FileDescriptor>
...
</FileDescriptors>
    
```

If there are CAMT.052-files available - the result from a call to DownloadFileList will also contain entries like these:

```

<FileDescriptors>
...
  <FileDescriptor>
    <FileReference>CAMTFI8516344400211864(ACC)</FileReference>
    <TargetId>20100416</TargetId>
    <ServiceId>FI8516344400211864</ServiceId>
    <FileType>camt.052.001.02</FileType>
    <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
    <Status>NEW</Status>
    <SubType>ACC</SubType>
  </FileDescriptor>
    
```

The user can request the TAPN for individual accounts. For camt.052.001.02 the user can request for both single accounts and group of accounts. The account numbers must be in either IBAN or BBAN format. The ServiceId contains account-number or name on group of accounts for which the request can be downloaded (informational).

When calling DownloadFile to retrieve the TAPN/CAMT.052 the following tags from the ApplicationRequest has special meaning (see also section 3.3):

Tag	Content	Sample
<ServiceId>	Format: [P][ddmmyyyy]  If "P" is specified the request will only contain positive amounts - only for TAPN.  If a date is specified it must be the current date. Then	<ServiceId>P</ServiceId> Return the last 50 positive postings - only for TAPN.  <ServiceId>17052010</ServiceId> Providing today is May 17 <sup>th</sup> , 2010 - return 50 postings from today - only for TAPN.  <ServiceId>P24122009<ServiceId> Providing

	<p>the request will only contain posting from today. Otherwise, the request will contain the last 50 postings (potentially from multiple days) - only for TAPN.</p> <p>If &lt;ServiceID&gt; is omitted - return the last 50 postings for TAPN and the last 200 postings for camt.052.001.03.</p>	<p>today is Dec. 24<sup>th</sup>, 2009 - return 50 positive postings from today - only for TAPN.</p>
<p>&lt;FileReferences&gt; &lt;FileReference&gt;</p>	<p>Use the content from FileReference entry of the FileDescriptor you receive from DownloadFileList.</p>	<p>Download specific entry for TAPN: &lt;FileReferences&gt; &lt;FileReference&gt;TAPNFI8529141722212410 &lt;/FileReference&gt; &lt;/FileReferences&gt;</p> <p>Download specific entry for CAMT: &lt;FileReferences&gt; &lt;FileReference&gt;CAMTFI8529141722212410 (ACC) &lt;/FileReference&gt; &lt;/FileReferences&gt;</p>

**APSN/CAMT.052 Balances**

If there are APSN-files available - the result from a call to DownloadFileList will also contain entries like these:

```

<FileDescriptors>
...
<FileDescriptor>
  <FileReference>APSN</FileReference>
  <TargetId>20100416</TargetId>
  <FileType>APSN</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
</FileDescriptor>
<FileDescriptor>
  <FileReference>APSNFI8516344400211864</FileReference>
  <TargetId>20100416</TargetId>
  <ServiceId>FI8516344400211864</ServiceId>
  <FileType>APSN</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
</FileDescriptor>
<FileDescriptor>
  <FileReference>APSNFI8529141722212410</FileReference>
  <TargetId>20100416</TargetId>
    
```

```
<ServiceId>FI8529141722212410</ServiceId>
<FileType>APSN</FileType>
<FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
<Status>NEW</Status>
</FileDescriptor>
...
</FileDescriptors>
```

If there are CAMT.052-files available - the result from a call to DownloadFileList will also contain entries like these:

```
<FileDescriptors>
...
<FileDescriptor>
  <FileReference>CAMTFI8516344400211864(BAL)</FileReference>
  <TargetId>20100416</TargetId>
  <ServiceId>FI8516344400211864</ServiceId>
  <FileType>camt.052.001.02</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
  <SubType>BAL</SubType>
</FileDescriptor>
```

Please notice that the sample above contains two entries on specific account numbers plus one entry with no account number specified. If there are APSN's available for more than one account the caller will also be able to request a APSN without account number specified which will give a combined APSN for all available account numbers.

The user can request the APSN for individual accounts and for camt.052.001.02 the user can request for both individual accounts and group of accounts (group of accounts are maintained in Business Online). The account numbers must be in either IBAN or BBAN format.

When calling DownloadFile to retrieve the APSN/CAMT.052 the following tag from the ApplicationRequest has special meaning (see also section 3.3):

Tag	Content	Sample
<FileReferences> > <FileReference>	Use the content from FileReference entry of the FileDescriptor you receive from DownloadFileList.	Download APSN for all connected accounts: <FileReferences> <FileReference>APSN</FileReference> </FileReferences>  Download APSN specifically for account number 80001999999999: <FileReferences> <FileReference>APSNFI80001999999999</FileReference> </FileReferences>  Download CAMT.052 specifically for account number 80001999999999: <FileReferences> <FileReference>CAMTFI80001999999999(BAL)</FileReference> </FileReferences>  Download CAMT.052 for group of account: MY GROUP: <FileReferences> <FileReference>CAMTMY GROUP (BAL)</FileReference> </FileReferences>

**USEN – Incoming foreign payments:**

If a USEN file is available – the result from a call to DownloadFileList will also contain an entry like this:

```
<FileDescriptors>
...
<FileDescriptor>
  <FileReference>USEN</FileReference>
  <TargetId>20100416</TargetId>
  <FileType>USEN</FileType>
  <FileTimestamp>2010-04-16T07:50:00</FileTimestamp>
  <Status>NEW</Status>
</FileDescriptor>
...
</FileDescriptors>
```

When calling DownloadFile to retrieve the USEN the following tag from the ApplicationRequest has special meaning (see also section 3.3):

Tag	Content	Sample
<FileReferences>  <FileReference>	USEN	Download USEN for all connected business ID's: <FileReferences> <FileReference>USEN</FileReference> </FileReferences>  There is no way of downloading USEN for a specific business ID.



## Appendix F: Usage of field Serviceld

Appendix F consists of two parts - DownloadFile and DownloadFileList. Both parts are described.

### DownloadFile with request of multiple files

When a DownloadFile request contains more than one file to be downloaded the files are concatenated into one big file and sent to the client.

For usage of FileReference in connection with download multiple files - see appendix G.

If the client side wants to have the concatenated files separated the field serviceld can be used to state a separator. When a separator is used, it will be inserted between each file. The default setup is that no separator is used.

There are three predefined separators available - see Appendix H:

S1: 3 line breaks (before next file to be read)

S2: 10 strokes ('-----')

S3: File reference

The separator is surrounded by new line characters (CR+LF) .

A separator must always be appended to other information that might be used in the Serviceld.

The last two characters in a Serviceld must be the separator

**DownloadFileList**

The below table lists the ServiceID's provided for each filetype. The ServiceID can be used to identify a specific file among many files with the same FileType.

File type string	ServiceID						
AG	Bankgirot no.						
APSN	IBAN no.						
BALR	Account no.						
BANSTA96A	<i>Not provided</i>						
BGCRMO	Bankgirot no.						
BGI	Bankgirot no.						
BGMAX	Account no. or Group of Accounts						
BIL	Customer no.						
DEBADV921	Account no. or Group of accounts						
DEBADV96A	Account no. or Group of accounts						
DEBMUL96A	Account no. or Group of accounts						
camt.029.001.03	<i>Not provided</i>						
camt.052.001.02	Account no. or IBAN no. or Group of accounts						
camt.053.001.02	Account no. or IBAN no. or Group of accounts						
camt.054.001.02	<table border="1"> <thead> <tr> <th>SubType</th> <th>ServiceID</th> </tr> </thead> <tbody> <tr> <td>FBFOPFI</td> <td><i>Not provided</i></td> </tr> <tr> <td>DCN</td> <td>Account no. or IBAN no. or Group of accounts</td> </tr> </tbody> </table>	SubType	ServiceID	FBFOPFI	<i>Not provided</i>	DCN	Account no. or IBAN no. or Group of accounts
SubType	ServiceID						
FBFOPFI	<i>Not provided</i>						
DCN	Account no. or IBAN no. or Group of accounts						
CAP	Account no. or Group of Accounts						
CAPCSV	Account no. or Group of Accounts						
CAPUDD	Account no. or Group of Accounts						
CHD	<i>Not provided</i>						
CHK	<i>Not provided</i>						
CMDPF	Custody account						
CMDPK	Custody account						
CMDAOF	Custody account						
CMDAOK	Custody account						
CMMFAST	Creditor no., Account no. or Group of accounts						
CMMKOM	Creditor no., Account no. or Group of Accounts						
CMMSEKT	Creditor no., Account no. or Group of Accounts						
CMMBG8	Creditor no., Account no. or Group of Accounts						
CMMBGX	Creditor no., Account no. or Group of Accounts						
CMKS	Account no. or Group of Accounts						
CMKSCP	Account no. or Group of Accounts						
CMKSIA	Account no. or Group of Accounts						
CMKSVA	Account no. or Group of Accounts						
CMKU	Account no. or Group of Accounts						
CMKUVA	Account no. or Group of Accounts						
CMKV	Account no. or Group of Accounts						
CMKVVA	Account no. or Group of Accounts						
CMKXFST	Account no. or Group of Accounts						
CMKXFVA	Account no. or Group of Accounts						
CMKXKOM	Account no. or Group of Accounts						

CMKXKOX	Account no. or Group of Accounts						
CMKXKVA	Account no. or Group of Accounts						
CMKXKVX	Account no. or Group of Accounts						
CMKXKUX	Account no. or Group of Accounts						
CMKXSAL	Account no. or Group of Accounts						
CMKXKSX	Account no. or Group of Accounts						
CMTLF	Customer no.						
CMTLK	Customer no.						
CMTLFF	Customer no.						
CMTLFK	Customer no.						
CMVCLH	Account no. or Group of Accounts						
CMVCLHV	Account no. or Group of Accounts						
CMVCLPO	Account no. or Group of Accounts						
CMVCLPV	Account no. or Group of Accounts						
CMVCLP1	Account no. or Group of Accounts						
COLLACK	<i>Not provided</i>						
CRECSF	Account no. or Group of Accounts						
CREEXT96A	Account no. or Group of Accounts						
CREM96A	<table border="1"> <thead> <tr><th>SubType</th><th>ServiceID</th></tr> </thead> <tbody> <tr><td>FIK</td><td>Creditor no., Account no. or Group of Accounts</td></tr> <tr><td>KRE</td><td>Account no. or Group of Accounts</td></tr> </tbody> </table>	SubType	ServiceID	FIK	Creditor no., Account no. or Group of Accounts	KRE	Account no. or Group of Accounts
SubType	ServiceID						
FIK	Creditor no., Account no. or Group of Accounts						
KRE	Account no. or Group of Accounts						
CUD	<i>Not provided</i>						
DCRE96A	Account no. or Group of Accounts						
EF	Bankgirot no.						
ERP	Customer no.						
FILN	E-invoice address						
FINS921	Account no. or Group of Accounts						
FINS96A	Account no. or Group of Accounts						
FINVKS	Group of currencies						
FIRN	Creditor no.						
FIVN	E-invoice address						
HTMLCRE	Account no. or Group of Accounts						
HTLMDEBA	Account no. or Group of Accounts						
HTMLFIK	Creditor no., Account no. or Group of accounts						
HTMLMFB	<i>Not provided</i>						
IBAN	<i>Not provided</i>						
IBK	<i>Not provided</i>						
IDOCACK	<i>Not provided</i>						
IKB	<i>Not provided</i>						
IKO	<i>Not provided</i>						
IMG- IMAGE	Account no. or Group of Accounts						
IMIN	Account no. or Customer no.						
INC	<i>Not provided</i>						
KMHN	Batch no. or File name						
KMVN	Batch no. or File name						
KNR	<i>Not provided</i>						
KOMBANSTA	<i>Not provided</i>						
KOMDEBOVS	Creditor no.						

KOMSTATMED	<i>Not provided</i>
KONTOAF	Account no., Group of accounts or Company ID
KTAFKOM	Account no., Group of accounts or Company ID
KTPSKOM	Account no., Group of accounts or Company ID
KTON	Account no.
KTO	<i>Not provided</i>
LB	Bankgirot no.
LKC	<i>Not provided</i>
LØN	<i>Not provided</i>
MT94	BIC address and Account no.
MT940DE	BIC address and Account no.
MT940SP	BIC address and Account no.
MT940SW	BIC address and Account no.
MT942DE	BIC address and Account no. or Group of Accounts
MT942SW	BIC address and Account no. or Group of Accounts
NCRE96A	Account no. or Group of Accounts
NOKVKSF	Group of currencies
NOKVSKS	Group of currencies
OTUXML	Account no. or Group of Accounts
OFUXML	Account no. or Group of Accounts
OIOXMLCRE	<i>Not provided</i>
OIOXMLINV	<i>Not provided</i>
Pain.002.001.02	<i>Not provided</i>
pain.002.001.03	<i>Not provided</i>
SCRE96A	Account no. or Group of Accounts
SEKVKSF	Group of currencies
SEKVKS	Group of currencies
SOVN	Batch no. or File name
SWFN	BIC address and Account no.
SWMT9X0	BIC address and Account no.
SWMTSTD	BIC address and Account no.
TAPN	IBAN no.
TITO	Account no or IBAN no.
TLPR2	Company no. or Group of companies
TR1	<i>Not provided</i>
TRRE	Account no.
UBLCRE	<i>Not provided</i>
UBLINV	<i>Not provided</i>
UBLORS	<i>Not provided</i>
UBLREM	<i>Not provided</i>
UBLRES	<i>Not provided</i>
ULJN	Batch no. or File name
UM2N	<i>Not provided</i>
USEN	<i>Not provided</i>
VAKDK	Group of currencies
VAKDKD	Group of currencies
VAKNO	Group of currencies
VAKNOD	Group of currencies
VAKUN	Group of currencies
VAKUS	Group of currencies

VARI	Group of currencies
VARU	Group of currencies
VARUD	Group of currencies
VKKFST	Group of currencies
VKKKOM	Group of currencies
VKSFAST	Group of currencies
VKSKOM	Group of currencies
VIPN	Account no.
VKEN	<i>Not provided</i>
XMLTITO	Account no.

## Appendix G: Usage of field FileReference

This section describes the usage of FileReference in UploadFile and DownloadFile

### UploadFile

If user fills in this with own reference when using operation UploadFile, Danske Bank will put this reference in ParentFileReference (note: only 16 characters available) in operation DownloadFileList when creating feedback files. This enables the customer to see links between payload and response files - e.g. when pain.002 PaymentStatusReport needs to be linked to the pain.001 CustomerCreditTransfer. (See description of ParentFileReference of DownloadFileList).

Only one FileReference can be used in UploadFile.

If FileType is SOVL then a six digit batch number which has to be agreed with Danske Bank, Finland must be filled in when using operation UploadFile.

### DownloadFile

If a client wants to download more than one file using DownloadFile a maximum of 10000 FileReferences is permitted.

For usage of FileReference in connection with "Real-time" files - see appendix E.

## Appendix H: Usage of separators

Separators can only be use in connection with a DownloadFile request of more than one file.

In the examples below are shown a DownloadFile request with 3 file referrences for balance information (APSN) to be downloaded:

Separator (upper -case sensitive)	Content of the returned file
S1 (3 line breaks)	180001234567890+00000004776978+00000004776978+ 000000047769781112051400+000000000000000EUR  180001234567891+00000020213753+00000020213753+ 000000202137531112051400+000000000000000USD  180001234567892+00000000481498+00000000481498+ 000000004814981112051400+000000000000000EUR
S2 (10 strokes '-----')	180001234567890+00000004776978+00000004776978+ 000000047769781112051400+000000000000000EUR ----- 180001234567891+00000020213753+00000020213753+ 000000202137531112051400+000000000000000USD ----- 180001234567892+00000000481498+00000000481498+ 000000004814981112051400+000000000000000EUR

S3 (file reference)	<p>APSNFI9580001234567890</p> <p>180001234567890+00000004776978+00000004776978+ 000000047769781112051400+0000000000000000EUR</p> <p>APSNFI5880001234567891</p> <p>180001234567891+00000020213753+00000020213753+ 000000202137531112051400+0000000000000000USD</p> <p>APSNFI1980001234567892</p> <p>180001234567892+00000000481498+00000000481498+ 000000004814981112051400+0000000000000000EUR</p>