EDI Web Services

in

Danske Bank

Version 5.2 October 08, 2026

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Version	Date	Change
0.1	02.12.2009	Initial version
0.2	11.12.2009	After Internal Review
0.3	22.12.2009	After review with Sampo Bank Appendix E added
0.4	29.01.2010	Updated with features regarding feedback files and real time files.
0.4	25.02.2010	Language clarifications.
0.4	22.03.2010	Changes to CustomerExtension and FileType in section "UploadFile" and Appendix D.
1.0	13.04.2010	Document placed under configuration management control
1.1	22.04.2010	Real-Time files revisited: They are now part of the output from DownloadFileList. Appendix F rewritten. Updates to DowloadFileList and DownloadFile sections.
1.1	28.04.2010	Real-Time appendix reviewed
2.0	05.05.2010	Specification baseline
2.0	26.05.2010	Examples for real-time files. Usage of special parameters.
2.0	30.07.2010	Changes to Appendix D and F. Create description on camt052, camt053 and camt054. Update online files TAPN and APSN
2.0	04.08.2010	Minor changes in the section 0 clarifying the agreements necessary to use WS.
2.0	25.08.2010	Updated the above mentioned text about agreements.
2.0	01.09.2010	Notice about the lifetime of a SOAP-packet.
2.0	13.10.2010	Changes to Appendix F: Some updates for CAMT052, using Bulk debit entries. See description of ServiceID Changes to Appendix D: Some updates for CAMT052, concerning subtype. Changes to Appendix E: Some updates for CAMT052
2.1	21.10.2010	Appendix E (Service Bureaus) replaced by new Section 4. Appendix F (Real Time Files) renamed Appendix E. Changed title of document to be in line with the product: EDI Web Services.
2.1	22.12.2010	Part 4 concerning Service Bureau's are moved to a separate document.
2.1	20.12.2010	Updated TOC after removal of Section 4.
2.2	27.06.2011	Added information about requirements for integrators.
2.3	29.09.2011	Added a new sub-type for camt.054: FBFOPFI. Removed the "Currently not available" for the three eInvoice related formats: pain.008.001.02, camt.055.001.01 and pain.002.001.03.
2.4	29-09.2011	Section 'Using the ApplicationRequest': - Description of ServiceId refers to app. F. - Description of FileReference refers to app. G. Section 'DownloadFile'. - Description of ServiceId refers to app. F. Appendix A: - Description of ServiceId refers to app. F. Appendix D: - Added file types: LM02, LM03, PELL, UM2L, UMTL,

		AMLL, FILL, FISL, FILN, FIRN, FIVN, EMAN, EMBN. - Deleted file types: ATML, AYRN, OLVN, YVLL, YVLN, YVVN (scoped out). - Changed descriptions of several others (mainly comment about implementation in 2010). Appendix F (new): - Usage of field ServiceId. Appendix G (new): - Usage of field FileReference.
2.4	06-10-2011	Minor changes.
2.4	11-10-2011	Service LKVL out of scope.
2.4	17-10-2011	Appendix D: • Text 'Linkki legacy format :' was missing for some services. • Service names LM02/LM03 changed to OL2L/OL3L. • FILL/FILN services are FInvoice services, not invoice services. Appendix F: • Added examples of application header to DownloadFile. • Comment about default parameters.
2.5	02.12.2011	'General notes': Download file section changed Section 'Using the ApplicationRequest': Update ServiceId description Section 3.3: DownloadFile: Update Filereference field Appendix F: Description of the usage of ServiceId is changed Added examples of application header to DownloadFile with separators. Appendix G: DownloadFile description changed Appendix H (new): Usage of separators
2.6	Dec. 2011	Appendix D: List is split up in Upload file types and Download file types - Added file types to list of outgoing file types: CMMSEKT, CMMKOM,CMMFAST,CREMUL96A, HTMLFIK, CMMBG8, CMMBGX, KOMBANSTA, BANSTA96A, HTMLMFB, TR1, DEBMUL96A, DEBADV96A, DEBADV921, HTMLDEB, HTMLFIK, IMG-IMAGE, IMIN, CMTLF, CMTLK,CMTLFF, CMTLFK, CMDPF, CMDPK, CMDADF, CMDADK, KONTOAF, KTAFKOM, KTPSKOM, OTUXML, OFUXML, CREEXT96A, HTMLCRE, SCRE96A, NCRE96A, CRECSF, BGMAX, DCRE96A, FINS921, FINS96A, XMLTITO, SWMT9X0, SWMTSTD, MT940SP, MT940SW, KOMDEBOVS, CAP, CAPCSV, CAPUDD, ERP, MT942SW, CMKU, CMKUVA, CMKV, CKMVVA, CMKXKOM, CMKXKVA, CMKXFST, CMKXFVA, CMKXKOX, CMKXKVX, CMKXKUX, CMKXSAL, CMKXKSX, CMKS, CMKSVA, CMKSIA, CMKSCP, CMVCLH, CMVCLHV, CMVCLPO, CMVCLPV,

		CMVCLP1, VAKNO, VAKNOD, VKSKOM, VKSFAST, VAKUN, NOKVKSF, NOKVKSK, FINVKS, SEKVKSF, SEKVKSK, VKKKOM, VKKFAST, VAKDK, VAKDKD, VAKUS, VARI, VARU, VARUD, TLPR2, INC, KOMSTATMED, COLLACK, IDOCACK, UBLORS, UBLREM, UBLINV, UBLCRE, UBLRES, VIONFI, IBK, IKB, IKO, CHD, KTO, CHK, LØN, CUD, KNR, LKC, OIOXMLCRE, OIOXMLINV, MT94, TRRE, TITO, BALR - Deleted file types: VTON (agreed with KZ) - Appendix F for Usage of ServiceID updated for DownloadFileList. New ServiceID's added to OLLN, USEN and some of the new file types added in Appendix D - In FileDescripter – General Description the column Danske Bank usage is updated in field 'UserFileName' -
2.6	15.12.2011	Minor changes.
2.6	19.12.2011	Minor changes.
2.6	10.01.2012	0. Background updated. Four paragraphs removed and replaced by a new paragraph and a link to EDI-website.
2.6	03.01.2012	Minor changes.
2.6	30. 01.2012	Appendix D: Added a new sentence that other file types than those listed in the table must be tested.
2.6	22.02.2012	Appendix F: Examples of ApplicationRequest for EMDN corrected.
2.7	08.05.2012	Logo replaced.
2.8	23.10.2012	0. Background updated – info about EDI Web Services address added. Appendix D updated – pain.001.001.03 added and pain.002.001.03 D updated.
2.9	05.11.2012	Re-branding. Sampo Bank to Danske Bank.
3.0	02.01.2013	Filereference in part 3.1. 'ApplicationRequest –Upload file' is changed from Used to Not used
3.1	01.02.2013	Filereference in part 3.1. 'ApplicationRequest –Upload file' is ' Not used' is replaced with a reference to appendix G Filereference in part 3.3. 'ApplicationRequest –Download file' is ref. to appendix H change to G. The total of file references allowed in DownLoad file increased to 2000
3.2	16.06.2013	Information about Group of accounts is updated in: 'ApplicationRequest: General description': Danske Bank usage for FileReferences updated 'ApplicationRequest:DownloadFile': Description/value for FileReferences updated 'Appendix D – Download Filetypes': camt.052.001.02, camt.053.001.02 and camt.054.001.02 updated camt.053.001.02 updated with additional sub type 'Appendix E': Information about group of accounts added 'Appendix F – Download Filelist': camt.052.001.02, camt.053.001.02 and camt.054.001.02 updated
3.3	23.08.2013	The total of file references allowed in multiple DownLoad

		file increased to 10000
3.4	04.09.2013	Added MT199, MT900 and MT941 file types, added info about compression in general notes
3.4	04.10.2013	Minor change to downloadtype for CREMUL
3.5	25.10.2013	Added limits for number of that can be uploaded/downloaded per agreement per day
3.6	24.04.2014	FileDescriptor/UserFileName/Danske Bank usage is added a text regarding when 'File order name' includes '&'.
3.7	16.12.2014	Under General notes: 'UploadFile number of files' and 'DownloadFile number of files' are removed and moved to 'Maximum number of files' including 'The total number of Uploadfiles and DownloadFilelists may not exceed 600 per minute' 2000 changes to 10000 under 3.3. DownloadFile Appendix D updated with Swedish LB format, Swedish BG Invoice format, Swedish KI Löner, Corporate Reporting Bankgiro statistics, Corporate Reporting Transaction Volume Report and Corporate Reporting FEE Global Service Code Report 3.4 (Operation unknown) is replaced by (DeleteFile function not implemented) 3.5 GetUserInfo is added GetUserInfo' is added in Danske Bank usage column in Application Request - General Description in Field Command as a not implemented value. Minor changes related to outgoing encryption in 'General notes' and Application Response 'Encrypted' field, and a change of n from 5000 to 10000 in Appl.Req FileReference field
3.8	14.06.2015	Appendix D and F updated for Swedish AG, LB, BIL and BGMax files Appendix D updated regarding discontinued Linkki legacy formats : AMLL, EMVL, MKTL, MKUL, AMVN, EMAN, EMBN, EMDN, EMTN, EMVN, MKON, MK1N, MKLN, MKTN, OLLN, VIONFI EDI Web Services URL added in background chapter
3.9	31.01.2016	Appendix D updated – MCT - MasterCard Corporate Card transaction and MCF - MasterCard Corporate Card invoice added Appendix E updated – camt.052.001.02 always provide all postings since last camt.052.001.02. Information about Service Window added to section General notes Environment specification is case sensitive and be in capital letters.
4.0	24.10.2016	Added information on chunked transfer encoding under General notes.
4.1	13.11.2016	In "General notes" information about maximum number of

		requests per minute (600) removed.
4.2	07.02.2017	Updated 'Danske Bank Usage' column for Timestamp in Request Header.
4.3	08.03.2017	Updated Appendix D for file types from 'Must be blank' to 'Must be omitted', added download file type for pass through files and updated service id description for camt.52.001.02 and camt 53.001.02.
4.4	02.06.2017	Updated Appendix D for Finnish updates, primarily changing Linkki legacy format to Finnish format. Also, added new Download File type 'BGCRMO' in Appendix D.
4.4	19.06.2017	Updated Appendix F for file type 'BGCRMO'.
4.5	09.04.2019	Updated: Appendix D Supported file types: Upload file types: added camt.055.001.01payments cancellation. Download file types: Added MT940DE and MT942DE. Appendix F: Usage of field ServiceId: DownloadFileList: added camt.029.001.03, MT940DE and MT942DE.
4.6	03.11.2020	Updated: Added OCN file in supported file types.
4.7	19.09.2023	General review (some format and spelling changes) Business Online is changed to District Updated links to our Integration Service homepage. In section 1. General notes updated the section about Service bureau. Deleted Service House and the reference to Appendix E. Section 2.3. field CustomerId and Danske Bank usage removed the reference to Appendix E. Section 2.3 field Signature and Danske Bank usage, updated the usage. Apendix D for Swedish Autogiro format changed "File type string" to "Be omitted, AGIRO or agiro" Apendix E, changed Danske Bank to Danske Bank Finland in the sentence "TAPN, APSN and USEN can only be requested on accounts held with Danske Bank Finland" The changelog 2.1 from 22.12.2010 "Part 4 concerning Service Bureau's are moved to a separate document". There do not exist a separate document and it do not exist a part 4 in this document.
4.8	12.12.2023	Under '2.3 Using the ApplicationRequest' and '3.2 DownloadFileList' the default value in 'Status' is changed from ALL to NEW.
4.9	08.03.2024	Added Recommendations info under 3.2 DownloadFileList
5.0	31.07.2025	Added "We are supporting SOAP version 1.1"
5.1	13.07.2026	New supported sup-types for camt.054.001.02

5.2	08.10.2026	Updated with support of pain.001 v.9 and pain.002 v.10

0. 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 District 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 our Integration Service site 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 District 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
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 2.1, 2.2 and 2.3.

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.

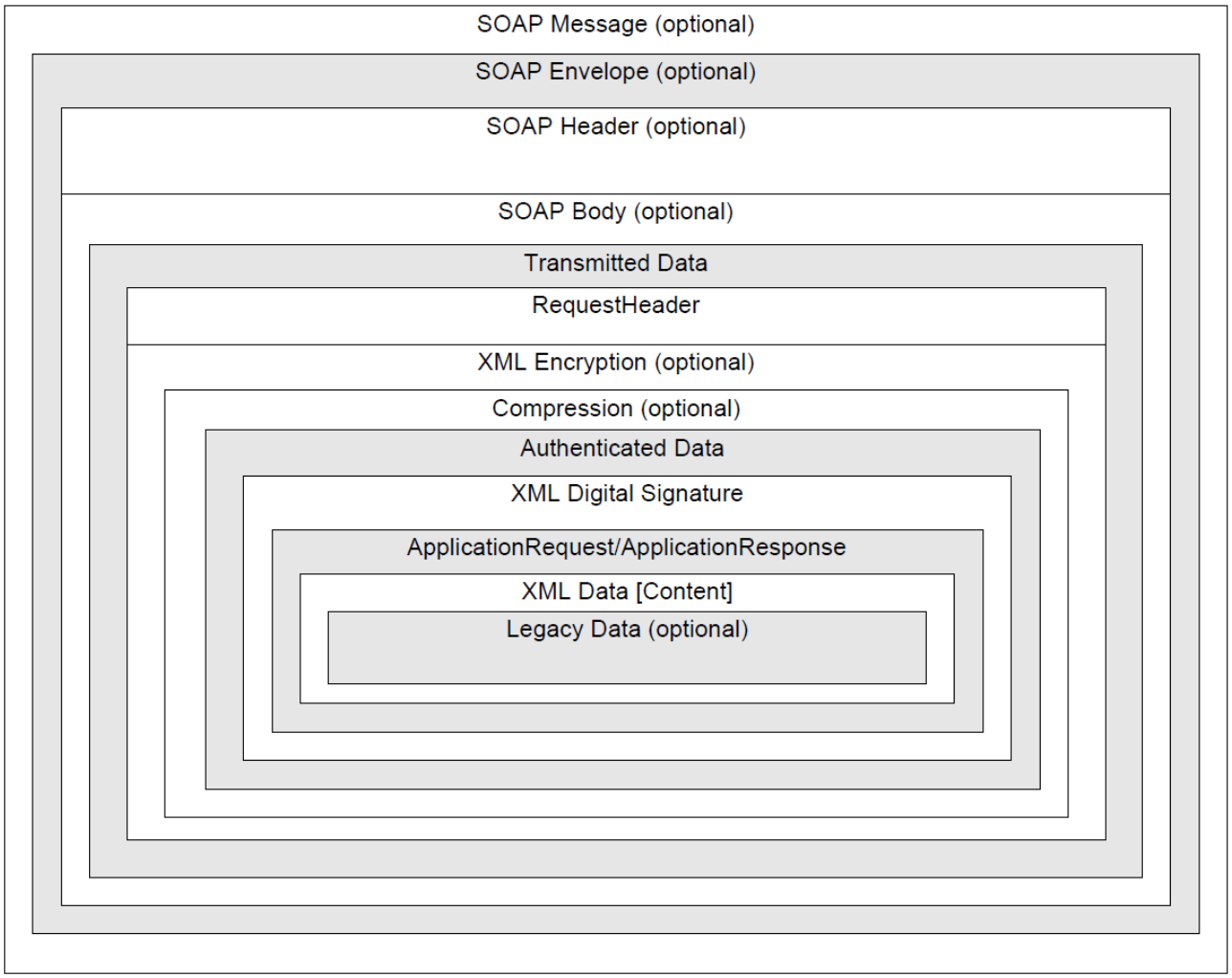
If the client experiences a timeout on a multiple file DownloadFile request – the client side may have to split the operation into multiple calls to DownloadFile.

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:



We are supporting SOAP version 1.1.

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.*

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" (default) = 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" = 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]*	*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.* *In DownloadFile request for multiple files the field can be use to state a predefined separator*	*See appendix F.*
Environment	*Must specify one of the following codes: "PRODUCTION" = Production environment, "TEST" = Testing environment.*	*[1..1]*	*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".*	*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]*	*Unique identification of the file that is the target of the operation.* *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.* *The customer never generates the FileReference. This value is generated in the bank. It is comparable to a file system File Handle.*	*Usage deviates slightly from the official usage.* *See appendix G.* *In Danske Bank:* *n = 10000*

ApplicationRequest – General Description				
Field	*Type*	*Cardinality*	*Official definition of the field*	*Danske Bank usage*
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.* *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"*	*Used* *Will be displayed in List of files in District*
TargetId	*Max80Text*	*[0..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.*	*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]*	*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*

ApplicationRequest – General Description				
Field	*Type*	*Cardinality*	*Official definition of the field*	*Danske Bank usage*
AmountTotal	*Double*	*[0..1]*	*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. 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.*	*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]*	*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.*	*Used See Appendix D*
Content	*Base64Binary*	*[0..1]*	*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.*	*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 CustomerId field then the certificate ID must belong to a Service Bureau that is allowed to handle payments on behalf of the customer. If that is the case then we will use the Customer User ID from CustomerId instead of the one from the Signature. ApplicationRequest has to be signed by one and only one signature*

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]*	*Encrytion 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.*
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]*	*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.* *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.* *Rule: There is no requirement for the bank to use this element even if the file type would allow for it.*	*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 specifyingTargetId 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]*	*Digital signature of the ApplicationResponse. 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. 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.*	*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*
ServiceId	*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:

ApplicationResponse - UploadFile	
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. 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.

Recommendations
Most files are available for download end of day or at fixed times during the day. To avoid unnecessary traffic both for you and Danske Bank, we recommend that DownloadFileList function only requests for available files at fixed times during the day.
Please do **not** *request for available files i.e. every five minutes.*

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" (default) = 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" = Give me a list of both new and already downloaded files.*
ServiceId	*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*

ApplicationRequest – DownloadFileList	
Field	*Description / Value*
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*
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*
ServiceId	*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 10.000 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:

ApplicationResponse - DownloadFile	
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 DowloadFileList 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. 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"*	*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]*	*The status (state) of the file.* *One of the following codes must be 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*	*Only values DLD and NEW are used*

FileDescriptor – General Description				
Field	*Type*	*Cardinality*	*Definition*	*Danske Bank usage*
+AmountTotal	*Double*	*[0..1]*	*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.* *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.* *Rule: There is no requirement for the bank to use this element even if the file type would allow for it*	*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]*	*Some filetypes can have a substatus (substate), eg. Finish Payment Service filetype (LMP300)* *If Code One of the following codes must be used:* *Code* – *Name* *HIGH* – *High* *NORM* – *Normal*	*Not used*
+SubStatusText	*Max70Text*	*[0..1]*	*A text describing the FileSubStatus*	*Not used*
+MissingTransactions	*Boolean*	*[0..1]*	*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*	*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]*	*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 DowloadFileList operation each time prior to the DownLoadFile operation*	*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:* *Code* / *Name* *New* / *The file is new* *Down-loaded* / *The file has been downloaded*	*Not used*
++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 RespnseCodes 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.055.001.01CustomerPaymentCancellationRequest: 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 LM02 & Express Giro.
OL3L	Finnish format : Payment of domestic invoices LM03 & Express Giro.
pain.001.001.02	The CustomerCreditTransferInitiation message from ISO 20022 XML, version 2
pain.001.001.03	The CustomerCreditTransferInitiation message from ISO 20022 XML, version 3
pain.001.001.09	The CustomerCreditTransferInitiation message from ISO 20022 XML, version 9
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
Must be omitted	EDIFACT 96 A format: PAYMUL
Must be omitted	EDIFACT 96A format: DIRDEB
Must be omitted	Danske Bank commaseparated format: Payment files CMBO,CMUO,CMGB,CMBODK,CMSI,CMNI,CMFI,CMDE,CMGBDC,CMII, CMUOGB,CMIIDC,CMUOIE,CMUO10,CMUOSE,CMUOFI,CMUODE,CMUONO
Must be omitted	Danske Bank commaseparated format: Collection files COLLECTION,COLDEBMOD,COLDELETE
Must be omitted	Danske Bank Idoc format: Payment file

Must be omitted	MT101 format
Must be omitted	MT104 format
Must be omitted	EFTS format
Must be omitted	BACS format (Header is required - contact Customer Support)
Must be omitted	Norwegian BBS format
Must be omitted	Norwegian Telepay format
Must be omitted	Swedish UtLands LB format
Be omitted, AGIRO or agiro	Swedish Autogiro format
Must be omitted	Swedish LB format
Must be omitted	Swedish BG Invoice format
Must be omitted	Swedish KI Löner
Must be omitted	OIOXML format
Must be omitted	OIOUBL format: UBLINV,UBLREM,UBLRES,UBLORD,UBLORS,UBLCRE
Must be omitted	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

<table>
<tr><th>File type string</th><th>Description</th></tr>
<tr><td>AG</td><td>Swedish Autogiro format (new and old format)
An additional subtype will be delivered
<table>
<tr><th>Code</th><th>Name</th></tr>
<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>
</table></td></tr>
<tr><td>APSN</td><td>Finnish format: Balance information (Real time request).</td></tr>
<tr><td>BALR</td><td>Finnish format: Balance information for DB, Helsinki branch</td></tr>
<tr><td>BANSTA96A</td><td>EDIFACT 96A format: Status file
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>MFB</td><td>Status file</td></tr>
</table></td></tr>
<tr><td>BGCRMO</td><td>Swedish Returned money orders from BankGirot</td></tr>
<tr><td>BGCVOL</td><td>Corporate Reporting Bankgiro statistics</td></tr>
<tr><td>BG_MAX</td><td>Swedish BG Max format
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>BGI</td><td>Pass-through file from BankGirot</td></tr>
<tr><td></td><td></td></tr>
</table></td></tr>
<tr><td>BGMAX</td><td>Swedish BG Max format: Credit entries
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>KRE</td><td>Credit entries</td></tr>
</table></td></tr>
<tr><td>BIL</td><td>Swedish BILD format
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>IMA</td><td>Pass-through file from BankGirot</td></tr>
</table></td></tr>
<tr><td>DEBADV921</td><td>EDIFACT 92-1 format: Debit entries
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>DEB</td><td>Debit entries</td></tr>
</table></td></tr>
<tr><td>DEBADV96A</td><td>EDIFACT 96A format (single payment): Debit entries
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>DEB</td><td>Debit entries</td></tr>
</table></td></tr>
</table>

<table>
<tr><td>DEBMUL96A</td><td>EDIFACT 96A format: Debit entries
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>DEB</td><td>Debit entries</td></tr>
</table></td></tr>
<tr><td>camt.029.001.03</td><td>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:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>MFB</td><td>Status file</td></tr>
</table></td></tr>
<tr><td>camt.052.001.02</td><td>ISO 20022 XML BankToCustomerAccountReport format: Account Report
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>BAL</td><td>Balance Information</td></tr>
<tr><td>ACC</td><td>Account Entries</td></tr>
</table></td></tr>
<tr><td>camt.053.001.02</td><td>ISO 20022 XML BankToCustomerStatement format: Account Statement(End of day)
An additional subtype will be delivered:
<table>
<tr><th>Code</th><th>Name</th></tr>
<tr><td>FIN</td><td>Account Statement</td></tr>
</table></td></tr>
<tr><td>camt.054.001.02</td><td>ISO 20022 XML BankToCustomerDebitCreditNotification format: DebitCreditNotification
An additional subtype will be delivered in DCN-file:
<table>
<tr><th>Code</th><th>Name</th></tr>
<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>
<tr><td>DBNSAL</td><td>Debit entries – No salaries</td></tr>
<tr><td>DBOSAL</td><td>Debit entries – Only salaries</td></tr>
<tr><td>DBNSWEEP</td><td>Debit entries – No sweeps</td></tr>
<tr><td>CRNSWEEP</td><td>Credit entries – No sweeps</td></tr>
</table></td></tr>
<tr><td>CAP</td><td>Fixed format in Ireland and UK : Customer Account Postings
An additional subtype will be delivered in DCN-file:
<table>
<tr><th>Code</th><th>Name</th></tr>
<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>
</table></td></tr>
<tr><td>CAPCSV</td><td>Danske Bank comma-separated format: Customer Account Postings
An additional subtype will be delivered in DCN-file:
<table>
<tr><th>Code</th><th>Name</th></tr>
<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>
</table></td></tr>
</table>

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

<table>
<tr><td>CMKSCP</td><td>Danske Bank comma-separated format: Balance information including external account number, currency codes, interest balance and booked balance
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>SLI</td><td>Balance information</td></tr></table></td></tr>
<tr><td>CMKSIA</td><td>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:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>SLI</td><td>Balance information</td></tr></table></td></tr>
<tr><td>CMKSVA</td><td>Danske Bank comma-separated format: Balance information with currence codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>SLI</td><td>Balance information</td></tr></table></td></tr>
<tr><td>CMKU</td><td>Danske Bank comma-separated format: Entries
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTO</td><td>Entries</td></tr></table></td></tr>
<tr><td>CMKUVA</td><td>Danske Bank comma-separated format: Entries including currency codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTO</td><td>Entries</td></tr></table></td></tr>
<tr><td>CMKV</td><td>Danske Bank comma-separated format (non-recurring file orders): Entries
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTO</td><td>Entries</td></tr></table></td></tr>
<tr><td>CMKVVA</td><td>Danske Bank comma-separated format: (non-recurring file orders): Entries including currency codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTO</td><td>Entries</td></tr></table></td></tr>
<tr><td>CMKXFST</td><td>Danske Bank fixed format: Entries for reconciliation
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXFVA</td><td>Danske Bank fixed format: Entries for reconciliation including currency codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
</table>

<table>
<tr><td>CMKXKOM</td><td>Danske Bank comma-separated format: Entries for reconciliation
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXKOX</td><td>Danske Bank comma-separated format: Entries for reconciliation including external account number
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXKVA</td><td>Danske Bank comma-separated format: Entries for reconciliation including currency codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXKVX</td><td>Danske Bank comma-separated format: Entries for reconciliation including external account number and currency codes
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXKUX</td><td>Danske Bank comma-separated format: Entries for reconciliation including external account number, currency codes and extended advice
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXSAL</td><td>Danske Bank comma-separated format: Entries for reconciliation including balance
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMKXKSX</td><td>Danske Bank comma-separated format: Entries for reconciliation including external account number, currency codes, extended advice and balance
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PTX</td><td>Entries for reconciliation</td></tr></table></td></tr>
<tr><td>CMTLF</td><td>Danske Bank fixed format: Forward rate and options transactions specified with Contract and sub-trade number
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>TRM</td><td>Forward rate and options transactions</td></tr></table></td></tr>
<tr><td>CMTLK</td><td>Danske Bank comma-separated format: Forward rate and options transactions specified with Contract and sub-trade number
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>TRM</td><td>Forward rate and options transactions</td></tr></table></td></tr>
</table>

CMTLFF	Danske Bank fixed format: Forward rate and options transactions specified with Trade number An additional subtype will be delivered: Code: TRM — Name: Forward rate and options transactions
CMTLFK	Danske Bank comma-separated format: Forward rate and options transactions specified with Trade number An additional subtype will be delivered: Code: TRM — Name: Forward rate and options transactions
CMVCLH	Danske Bank fixed format: Balances for currency accounts An additional subtype will be delivered: Code: SLU — Name: Balances for currency accounts
CMVCLHV	Danske Bank fixed format: Balances for currency accounts including currency codes An additional subtype will be delivered: Code: SLU — Name: Balances for currency accounts
CMVCLPO	Danske Bank comma-separated format: Balances for currency accounts An additional subtype will be delivered: Code: SLU — Name: Balances for currency accounts
CMVCLPV	Danske Bank comma-separated format: Balances for currency accounts including currency codes An additional subtype will be delivered: Code: SLU — Name: Balances for currency accounts
CMVCLP1	Danske Bank comma-separated format: Balances for currency accounts including currency codes and expiry date An additional subtype will be delivered: Code: SLU — Name: Balances for currency accounts
COLLACK	Danske Bank comma-separated format: Network receipt An additional subtype will be delivered: Code: ACK — Name: An acknowledgement file
CRECSF	Danske Bank comma-separated format: Credit entries An additional subtype will be delivered: Code: KRE — Name: Credit entries

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

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

<table>
<tr><td>KOMDEBOVS</td><td>Danske Bank comma-separated format: List of debtors
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>DEO</td><td>List of debtors</td></tr></table></td></tr>
<tr><td>KOMSTATMED</td><td>Danske Bank comma-separated format: Status file on collection or debtor amendment
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>PSR</td><td>Payment Status Report</td></tr></table></td></tr>
<tr><td>KONTOAF</td><td>Norwegian fixed format: Bank reconciliation
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>KAF</td><td>Bank reconciliation</td></tr></table></td></tr>
<tr><td>KTAFKOM</td><td>Norwegian standard comma-separated format: Bank reconciliation
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>KAF</td><td>Bank reconciliation</td></tr></table></td></tr>
<tr><td>KTPSKOM</td><td>Norwegian simple comma-separated format: Bank reconciliation
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>KAF</td><td>Bank reconciliation</td></tr></table></td></tr>
<tr><td>KTO</td><td>Danske Bank giro format: Processing list account-to-account</td></tr>
<tr><td>KTON</td><td>Finnish format: Account Statement</td></tr>
<tr><td>LB</td><td>Swedish Leverantörsbetalningar format
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><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></table></td></tr>
<tr><td>LKC</td><td>Danske Bank giro format: Countermanded cheques</td></tr>
<tr><td>LØN</td><td>Danske Bank giro format: Processing list salary</td></tr>
<tr><td>MCF</td><td>MasterCard Corporate Card invoice</td></tr>
<tr><td>MCT</td><td>MasterCard Corporate Card transactions</td></tr>
<tr><td>MT199</td><td>MT199 format Free format message
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>REJECTED</td><td>A feedback file (after validation of payment)</td></tr></table></td></tr>
<tr><td>MT900</td><td>MT900 format Confirmation of debit
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>BOOKED</td><td>A feedback file (after payment execution)</td></tr></table></td></tr>
</table>

<table>
<tr><td>MT94</td><td>MT940 Finnish file type format (Standard version) for Danske Bank, Helsinki branch
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>MT940DE</td><td>MT942 format (German version): Account statement
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>MT940SP</td><td>MT940 format (SAP version): Account statement
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>MT940SW</td><td>MT940 format (Standard version): Account statement
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>MT941SW</td><td>MT941 format Balance information
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>SLI</td><td>Balance information</td></tr></table></td></tr>
<tr><td>MT942DE</td><td>MT942 format (German version): Transaction Report
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>TRE</td><td>Transaction Report</td></tr></table></td></tr>
<tr><td>MT942SW</td><td>MT942 format (Standard version): Transaction Report
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>TRE</td><td>Transaction Report</td></tr></table></td></tr>
<tr><td>NCRE96A</td><td>EDIFACT 96A format (Norwegian payments): Credit entries
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>KRE</td><td>Credit entries</td></tr></table></td></tr>
<tr><td>NOKVKSF</td><td>Danske Bank fixed format: Exchange rates – the Norwegian National Bank's buying, selling and average rates
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>NOKVKSK</td><td>Danske Bank comma-separated format: Exchange rates – the Norwegian National Bank's buying, selling and average rates
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
</table>

<table>
<tr><td>OTUXML</td><td>Readable format: Transfers abroad
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>OUT</td><td>Transfers abroad</td></tr></table></td></tr>
<tr><td>OFUXML</td><td>Readable format: Transfers from abroad
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>OFU</td><td>Transfers from abroad</td></tr></table></td></tr>
<tr><td>OIOXMLCRE</td><td>OIOXML format: Creditnote</td></tr>
<tr><td>OIOXMLINV</td><td>OIOXML format: Invoice</td></tr>
<tr><td>OTHERDATA</td><td>Pass through files</td></tr>
<tr><td>pain.002.001.02</td><td>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

An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><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></table></td></tr>
<tr><td>pain.002.001.03</td><td>ISO 20022 XML CustomerPaymentStatusReport version 3.
Used for both acknowledgement and feedback and is generated as a result of an incoming ISO 20022 XML pain.001.001.02 CustomerCreditTransferInitiation message

An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><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></table></td></tr>
<tr><td>pain.002.001.10</td><td>ISO 20022 XML CustomerPaymentStatusReport version 10.
Used for both acknowledgement and feedback and is generated as a result of an incoming ISO 20022 XML pain.001.001.02 CustomerCreditTransferInitiation message

An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><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></table></td></tr>
<tr><td>SCRE96A</td><td>EDIFACT 96A format (Swedish payments): Credit entries
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>KRE</td><td>Credit entries</td></tr></table></td></tr>
</table>

<table>
<tr><td>SEKVKSF</td><td>Danske Bank fixed format: Exchange rates – the Swedish National Bank's buying, selling and average rates
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>SEKVKSK</td><td>Danske Bank comma-separated format: Exchange rates – the Swedish National Bank's buying, selling and average rates
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>SOVN</td><td>Finnish format: Common Transfer – Customer specific material transfers to customer; various purposes, no common file structure.</td></tr>
<tr><td>SWFN</td><td>Finnish format: SWIFT account statement</td></tr>
<tr><td>SWMT9X0</td><td>MT940 format (old SAP version): Account statement
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>SWMTSTD</td><td>MT940 format (old standard version): Account statement
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>TAPN</td><td>Finnish format: Account entries (Real time request).</td></tr>
<tr><td>TITO</td><td>Finnish format for DB, Helsinki branch: Basic transaction list
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>TLPR2</td><td>Telepay format: Return advices for processed payments
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>TLP</td><td>Return advices for processed payments</td></tr></table></td></tr>
<tr><td>TR1</td><td>Telepay format: Acknowledgement Receipt
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>TR1</td><td>Acknowledgement Receipt</td></tr></table></td></tr>
<tr><td>TRANVOL</td><td>Corporate Reporting Transaction Volume Report</td></tr>
<tr><td>TRRE</td><td>Finnish legacy format:
- Basic transaction list</td></tr>
<tr><td>UBLCRE</td><td>UBL 2.0 format: Creditnote</td></tr>
<tr><td>UBLINV</td><td>UBL 2.0 format: Invoice</td></tr>
<tr><td>UBLORS</td><td>UBL 2.0 format: Order Response Simple</td></tr>
<tr><td>UBLREM</td><td>UBL 2.0 format: Reminder</td></tr>
<tr><td>UBLRES</td><td>UBL 2.0 format: ApplicationResponse</td></tr>
<tr><td>ULJN</td><td>Finnish format: State officer files from the bank (Ministry of justice).</td></tr>
<tr><td>UM2N</td><td>Finnish format: Feedback on foreign payments</td></tr>
<tr><td>USEN</td><td>Finnish format: Incoming foreign payments (Real time request).</td></tr>
</table>

<table>
<tr><td>VAKDK</td><td>Danske Bank comma-separated format: Exchange cross rates against DKK
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKK</td><td>Currence cross rates</td></tr></table></td></tr>
<tr><td>VAKDKD</td><td>Danske Bank fixed-separated format: Exchange cross rates against DKK
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKK</td><td>Currence cross rates</td></tr></table></td></tr>
<tr><td>VAKNO</td><td>Danske Bank comma-separated format: Exchange rates – the Danish National Bank's middle rates
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>VAKNOD</td><td>Danske Bank fixed format: Exchange rates – the Danish National Bank's middle rates
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>VAKUN</td><td>Danske Bank fixed format: Exchange rates – Danske Bank's selling rates
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>VAKUS</td><td>Danske Bank comma-separated format: Exchange cross rates against USD
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKK</td><td>Currency cross rates</td></tr></table></td></tr>
<tr><td>VARI</td><td>Danske Bank comma-separated format: Currency interest rates on deposits
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VRS</td><td>Currency interest rates</td></tr></table></td></tr>
<tr><td>VARU</td><td>Danske Bank comma-separated format: Currency interest rates on loans
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VRS</td><td>Currency interest rates</td></tr></table></td></tr>
<tr><td>VARUD</td><td>Danske Bank comma-separated format: Currency interest rates on loans
An additional subtype will be delivered:
<table><tr><th>Code</th><th>Name</th></tr><tr><td>VRS</td><td>Currency interest rates</td></tr></table></td></tr>
</table>

<table>
<tr><td>VKKFST</td><td>Danske Bank fixed format: Exchange cross rates with optional counter currency
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKK</td><td>Currency cross rates</td></tr></table></td></tr>
<tr><td>VKKKOM</td><td>Danske Bank comma-separated format: Exchange cross rates with optional counter currency
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKK</td><td>Currency cross rates</td></tr></table></td></tr>
<tr><td>VKSFAST</td><td>Danske Bank fixed format: Exchange rates
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>VKSKOM</td><td>Danske Bank comma-separated format: Exchange rates
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>VKS</td><td>Exchange rates</td></tr></table></td></tr>
<tr><td>VIPN</td><td>Finnish format:
- Basic transaction list
- Factoring invoices for Danske Finance.</td></tr>
<tr><td>VK01</td><td>Finnish format: EUR currency rates for DB, Helsinki branch</td></tr>
<tr><td>VKEN</td><td>Finnish format: Exchange rates.</td></tr>
<tr><td>XMLTITO</td><td>Danske Bank XML format: Account statement
An additional subtype will be delivered:<table><tr><th>Code</th><th>Name</th></tr><tr><td>FIN</td><td>Account statement</td></tr></table></td></tr>
<tr><td>OCN</td><td>Norwegian OCN format: Credit entries</td></tr>
</table>

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 Finland, 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 the request will only contain posting from today. Otherwise, the request will contain the last 50 postings (potentially from multiple days) – only for TAPN.* *If <ServiceID> is omitted – return the last 50 postings for TAPN and the last 200 postings for camt.052.001.03.*	`<ServiceId>P</ServiceId>` *Return the last 50 positive postings – only for TAPN.* `<ServiceId>17052010</ServiceId>` *Providing today is May 17th, 2010 – return 50 postings from today – only for TAPN.* `<ServiceId>P24122009<ServiceId>` *Providing today is Dec. 24th, 2009 – return 50 positive postings from today – only for TAPN.*

`<FileReferences>`
 	
`<FileReference>`
	Use the content from FileReference entry of the FileDescriptor you receive from DownloadFileList.	*Download specific entry for TAPN:*
		`<FileReferences>`
		`<FileReference>TAPNFI8529141722212410`
		`</FileReference>`
		`</FileReferences>`
		
		Download specific entry for CAMT:
		`<FileReferences>`
		`<FileReference>CAMTFI8529141722212410(ACC)`
		`</FileReference>`
		`</FileReferences>`

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 an 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 District). 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)</FileRefere nce>`
		`</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 ServiceId

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 serviceId 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 ServiceId.

The last two characters in a ServiceId 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	Not provided
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	Not provided
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><tr><th>SubType</th><th>ServiceID</th></tr><tr><td>FBFOPFI</td><td>Not provided</td></tr><tr><td>DCN</td><td>Account no. or IBAN no. or Group of accounts</td></tr></table>
CAP	Account no. or Group of Accounts
CAPCSV	Account no. or Group of Accounts
CAPUDD	Account no. or Group of Accounts
CHD	Not provided
CHK	Not provided
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	*Not provided*
CRECSF	*Account no. or Group of Accounts*
CREEXT96A	*Account no. or Group of Accounts*
CREM96A	<table><tr><th>SubType</th><th>ServiceID</th></tr><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></table>
CUD	*Not provided*
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	*Not provided*
IBAN	*Not provided*
IBK	*Not provided*
IDOCACK	*Not provided*
IKB	*Not provided*
IKO	*Not provided*
IMG-IMAGE	*Account no. or Group of Accounts*
IMIN	*Account no. or Customer no.*
INC	*Not provided*
KMHN	*Batch no. or File name*
KMVN	*Batch no. or File name*
KNR	*Not provided*
KOMBANSTA	*Not provided*
KOMDEBOVS	*Creditor no.*

KOMSTATMED	*Not provided*
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	*Not provided*
LB	*Bankgirot no.*
LKC	*Not provided*
LØN	*Not provided*
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*
NOKVKSK	*Group of currencies*
OTUXML	*Account no. or Group of Accounts*
OFUXML	*Account no. or Group of Accounts*
OIOXMLCRE	*Not provided*
OIOXMLINV	*Not provided*
Pain.002.001.02	*Not provided*
pain.002.001.03	*Not provided*
SCRE96A	*Account no. or Group of Accounts*
SEKVKSF	*Group of currencies*
SEKVKSK	*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	*Not provided*
TRRE	*Account no.*
UBLCRE	*Not provided*
UBLINV	*Not provided*
UBLORS	*Not provided*
UBLREM	*Not provided*
UBLRES	*Not provided*
ULJN	*Batch no. or File name*
UM2N	*Not provided*
USEN	*Not provided*
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	*Not provided*
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.001CustomerCreditTransfer. (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 refenrences for balance information (APSN) to be downloaded:

Separator (upper - case sensitive)	Content of the returned file
S1 (3 line breaks)	*180001234567890+00000004776978+00000004776978+* *0000000477697811205140 0+00000000000000EUR* *180001234567891+00000020213753+00000020213753+* *0000002021375311205140 0+00000000000000USD* *180001234567892+00000000481498+00000000481498+* *0000000048149811205140 0+00000000000000EUR*
S2 (10 strokes '----------')	*180001234567890+00000004776978+00000004776978+* *0000000477697811205140 0+00000000000000EUR* ---------- *180001234567891+00000020213753+00000020213753+* *0000002021375311205140 0+00000000000000USD* ---------- *180001234567892+00000000481498+00000000481498+* *0000000048149811205140 0+00000000000000EUR*

S3 (file reference)	APSNFI9580001234567890 180001234567890+00000004776978+00000004776978+ 0000000477697811205140 0+00000000000000EUR APSNFI5880001234567891 180001234567891+00000020213753+00000020213753+ 0000002021375311205140 0+00000000000000USD APSNFI1980001234567892 180001234567892+00000000481498+00000000481498+ 0000000048149811205140 0+00000000000000EUR