

CreationDirect

**Data Interchange Specifications:  
ISO (SWIFT) and XML instruction and report  
file formats**

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# ISO (SWIFT) and XML instruction and report file formats

The guide provides customers of Clearstream Banking with an overview of the record formats required by CreationDirect when sending instructions<sup>1</sup> and receiving reports.

## The purpose of this guide

This guide is designed for system developers who have a knowledge of ISO and XML message standards. The purpose of the guide is to provide an understanding of the record and file structures required by CreationDirect to:

- send a file of instructions;
- process the technical feedback file containing the results of the initial validation of the clearing and settlement instructions;
- process a file containing a report.

This guide applies to all CreationDirect delivery options: via Internet, via VPN, via LiMa and via SWIFTNet.

## How this guide is organised

This guide is organised as follows:

- Section 1, Handling ISO instruction files;
- Section 2, Corporate Actions reference data;
- Section 3, Receiving Reports;
- Section 4, XML Report Specifications.

## Related documentation

**Note:** Unless otherwise indicated, all publications referred to in this guide are available on the Clearstream Banking web site [www.clearstream.com](http://www.clearstream.com) under Publications and Downloads.

## Related CreationDirect documentation

Related documentation for CreationDirect includes the following:

- CreationOnline User Manual;
- CreationDirect via Internet User Guide;
- CreationDirect PDF report guide.

**Note:** For details of scheduling reports online for delivery via CreationDirect, please refer to the CreationOnline User Manual.

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1. Cash and securities instruction files must be in ISO format. There is currently no provision for sending custody instruction files via CreationDirect.

## ISO detailed documentation

- For detailed information about the ISO record layouts referred to in this guide, please refer to the Clearstream Banking Creation via SWIFT User Guide.
- For information about the SWIFT network, please refer to the standard set of proprietary documentation provided by SWIFT. In particular, the FIN Service Description manual contains useful information concerning message structures.
- CreationDirect via SWIFTNet is based on the SWIFTNet FileAct service. For information about this service, please refer to the standard set of proprietary documentation provided by S.W.I.F.T.

## Field format notation

The following is a key to symbols used in the message format tables:

6!n	6 numeric characters, fixed length	6*50x	up to 6 lines of up to 50 characters each
1!e	one blank space	1!n	one numeric character
3!a	3 alpha characters, fixed length	15!d	15 numeric characters including decimal separator, fixed length
ISIN1!e12!c	"ISIN" followed by one blank, followed by the ISIN, fixed length	/XS/9n	"XS" between slashes followed by the Common Code, up to 9 digits

## Where to get assistance

For further information or if you have specific questions regarding CreationDirect and/or communications with CBL, please contact Customer Services Connectivity Support as follows:

	<b>Luxembourg</b>	<b>Frankfurt</b>	<b>London</b>
Tel:	+352-243-38110	+49-(0) 69-2 11-1 15 90	+44-(0)20-786 27100
Fax:	+352-243-638110	+49-(0) 69-2 11-6 1 15 90	+44 (0) 20-786 27254
Email:	connectlux@clearstream.com	connectfrankfurt@clearstream.com	connectlondon@clearstream.com

Before contacting CBL, please ensure that you have the following information to hand:

- Your organisation name and account number with Clearstream Banking.
- Your telephone number, fax number and E-mail address.
- Details of the problem (please have full details available).
- If you have received an error message, full details of the error, with the error message number.
- If connected via VPN:
  - Your CreationDirect address and
  - The CONNECT:Direct version number and the operating system where it has been installed.
- If connected via SWIFTNet FileAct:
  - Your organisation's Distinguished Name (DN) and
  - If you are using FTI, any FTI error code received.

Customers should note that, as is normal practice within financial organisations, CBL has implemented telephone line recording to ensure that the interests of CBL and of its customers are protected against misunderstandings or miscommunications.

Areas subject to telephone line recording include Customer Services, the Treasury Dealing Room and back office operations. The recorded lines are the subject of an ongoing formal maintenance and quality control programme to ensure their continued effective and appropriate deployment and operation.

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# 1. Handling ISO instruction files

This section describes the structure of the header and trailer records that must be added to the file that contains the instructions to be submitted to Clearstream Banking.

You prepare cash or securities instructions<sup>1</sup> in ISO format<sup>2</sup> and then add header and trailer records to this ISO envelope of messages.

Clearstream offers the choice of two different formats for the headers and trailers:

- CreationDirect proprietary format (available on all CreationDirect channels).
- Giovannini File Transfer Rulebook format. (only available on CreationDirect via Internet and CreationDirect via FileAct)

The choice between the two formats can be specified by the customer during the address setup. For CreationDirect via Internet, this can be done in CreationOnline via a new flag in the Filestore settings. For CreationDirect via FileAct, the option is available via the main subscription form. Customers may also request to use the new Giovannini File Transfer header by sending an authenticated MT599 or by contacting the Connectivity Help Desk.

Once a format is specified on a CreationDirect Address, it will apply to all Clearstream inbound (instructions) and outbound (reports) files transmitted via the specified address.

**Note:** Cash instructions and securities instructions must be submitted in separate respective files.

When this file has been prepared, you send it to Clearstream Banking via CreationDirect. On receipt, the file and individual instructions are validated and a technical validation feedback file containing the results of the file and instruction validation is then created.

## Cash instructions via MT1xx/2xx

The following table shows the relationship between the ISO MT1xx/2xx messages supported by CreationDirect and Clearstream Banking's cash instructions.

ISO message	Clearstream Banking cash instructions
<b>MT103/103+</b> Single Customer Credit Transfer	Withdrawal of funds from Clearstream Banking Internal transfer of funds
<b>MT202</b> General Financial Institution Transfer	Withdrawal of funds from Clearstream Banking Internal transfer of funds
<b>MT203</b> Multiple General Financial Institution Transfer	Withdrawal of funds from Clearstream Banking Internal transfer of funds
<b>MT210</b> Notice to Receive	Pre-advice of entry of funds into Clearstream Banking

<sup>1</sup> Cash and securities instruction files can only be sent in ISO (SWIFT) format.

<sup>2</sup> For details of ISO message types, please refer to the Clearstream Banking Creation via SWIFT User Guide.

## Securities instructions via MT54x

The following table shows the relationship between the ISO MT5xx messages supported by CreationDirect and Clearstream Banking securities instructions.

ISO message	Clearstream Banking securities instructions
<b>MT540</b> Receive free	(temporary, for matching only) Receipt of securities from Clearstream Banking or Euroclear, free of payment
	Receipt of securities from Clearstream Banking or Euroclear, free of payment
	Receipt of securities from outside Clearstream Banking and Euroclear, free of payment
<b>MT541</b> Receive against payment	(temporary, for matching only) Receipt of securities against payment
	Receipt of securities against payment
	Receipt of securities from outside Clearstream Banking and Euroclear, against payment
<b>MT542</b> Deliver free	(temporary, for matching only) Delivery of securities from Clearstream Banking or Euroclear, free of payment
	Transfer of securities between customer accounts, free of payment
	Delivery of securities from Clearstream Banking or Euroclear, free of payment
	Delivery of securities outside Clearstream Banking and Euroclear, free of payment
	Delivery of securities outside Clearstream Banking and Euroclear, free of payment
<b>MT543</b> Deliver against payment	(temporary, for matching only) Delivery of securities from Clearstream Banking or Euroclear, free of payment
	Delivery of securities against payment
	Delivery of securities outside Clearstream Banking and Euroclear, against payment
	Delivery of securities outside Clearstream Banking and Euroclear, against payment
<b>MT530</b> Transaction Processing Command	Modification of a pending settlement instruction



## Instruction file structure

### CreationDirect format

The envelope of the instruction file has the following structure.

#### Structure of instruction file envelope

<b>Header</b>
One or more ISO messages:
<b>Trailer (for transmission control)</b>

### Header format

The header has the format 25!a and a fixed value as follows:

```
25!a    HEADERCLEARSTREAM BANKING
```

### Header content

The header comprises the following information (please refer to the example presented below):

- A mandatory Basic header {1:F01BANKLULLXXXX0000000000} where BANKLULL can be replaced by your BIC. If you do not have a BIC, you can use CEDELULL.
- A mandatory Application header {2:InnnCEDELULLXXXXN} where nnn is the message type.
- An optional User header {3:{108:message user reference}} where 108: can be followed by a message reference.

### ISO messages

The ISO messages and envelope should have the formats as defined by the standard ISO (SWIFT) messaging guidelines.

**Note:** Messages must be concatenated with no separators.

### Trailer format

The trailer has the format 26!a13!n and values as follows:

```
26!a    TRAILERCLEARSTREAM BANKING
13!n    The number of ISO messages in the file, right-aligned with leading zeros,
        for example, 0000000000005
```

## Example of an CreationDirect format instruction file

The example below shows an input file containing an MT540 message followed by an MT543 message.

```
HEADERCLEARSTREAM BANKING
{1:F01BANKLULLXXXX0000000000}{2:I540CEDELULLXXXXN}{3:{108:message user
reference}}{4:
:16R:GENL
:20C::SEME//CHECK-53A1
:23G:NEWM
:16S:GENL
:16R:TRADDET
:98A::SETT//20010508
:98A::TRAD//20010504
:35B:ISIN HK0008009653
:70E::SPRO//ab/ADDPRTY/
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/10,
:97A::SAFE//12345
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//HKSCHKH1
:16S:SETPRTY
:16R:SETPRTY
:95Q::DEAG//HONGKONG AND SHANGHAI
BANKING CORPORATION LTD
:16S:SETPRTY
:16R:SETPRTY
:95Q::SELL//BANQUE GENERALE
DU LUXEMBOURG
:97A::SAFE//12345
:16S:SETPRTY
:16S:SETDET
-}{1:F01BANKLULLXXXX0000000000}{2:I543CEDELULLXXXXN}{3:{108:message user
reference}}{4:
:16R:GENL
:20C::SEME//2310702-P3
:23G:NEWM
:16S:GENL
:16R:TRADDET
:98A::SETT//20010508
:98A::TRAD//20010504
:35B:ISIN DE0001025708
:16S:TRADDET
:16R:FIAC
:36B::SETT//FAMT/240000,
:97B::SAFE//ABRD/11215TEST
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//CEDELULL
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/CEDE/12345
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR192000,
:16S:AMT
:16S:SETDET
-}
TRAILERCLEARSTREAM BANKING0000000000002
```

## Giovannini File Transfer Rulebook XML header

### Header format

Customers using this format must follow the standard format as defined by SWIFT in the Giovannini File Transfer (GFT) Rulebook specifications which are available on [www.swift.com](http://www.swift.com) and must also comply with Clearstream's requirements as listed below.

### Header content

The following fields are mandatory fields in the transmission:

#### **Sender**

For files sent by CreationDirect via Internet, this field must contain your CreationDirect via Internet address. For files sent over CreationDirect via FileAct, it must contain the BIC-8 of your institution.

#### **Receiver**

must contain 'CEDELULL'

#### **Payload identifier**

Must contain the file name. For compressed files, this field must contain the .GZ extension.

#### **Creation date and time**

Must contain a valid Creation date and time in the format DD-MM-YYYY HH:MM:SS

#### **Payload type**

must contain 'ISO15022'

#### **Number of Documents**

must contain the exact number of ISO messages present in the payload

#### **Document delimiter**

must contain '-}'

Notes:

- The payload must contain valid ISO files with blocks 1 to 4. Block 5 is not accepted by Clearstream in a GFT input file.
- Files with multiple payloads are not accepted. Only one payload with ISO messages of the same type (i.e. cash or securities type instructions) are accepted.
- Non ISO messages cannot be transmitted with the Giovannini FT Header. For non-ISO messages, the CBL proprietary formats will continue to apply.
- GFT compliant Files must use UTF-8 encoding. Other formats will not be accepted by Clearstream.

### ISO messages

The ISO messages and envelope should have the formats as defined by the standard ISO (SWIFT) messaging guidelines.

## Example of an instruction file with GFT Rulebook header

```
<?xml version="1.0" encoding="UTF-8"?>
<Exchange>
  <Header>

    <Sender>
      <Identifier>BANKLULL</Identifier>
    </Sender>
    <Receiver>
      <Identifier>CEDELULL</Identifier>

    </Receiver>

  </Header>
  <PayloadDescription>
    <PayloadDetails>

<PayloadIdentifier>CON003.005.002.CR85.FA.54x.with.vaild.number.of.Documents.iso
</PayloadIdentifier>
    <CreationDateAndTime>01-09-2008</CreationDateAndTime>

    </PayloadDetails>
    <PayloadTypeDetails>
      <Type>ISO15022</Type>

    </PayloadTypeDetails>

    <TechnicalInfo>

    <DocumentDelimiter>-}</DocumentDelimiter>

    </TechnicalInfo>
    <ManifestDetails>

    <NumberOfDocuments>2</NumberOfDocuments>
    </ManifestDetails>
  </PayloadDescription>
  <Payload>
    <Data>
{1:F01CEDELUL0AXXX0000000000}{2:I540CEDELUL0AXXXN}{3:{108:BANKLULLXXXX}}{4:
:16R:GENL
:20C::SEME//GFT-CS-MT540
:23G:NEWM
:16S:GENL
:16R:TRADDET
:98A::SETT//20080902
:35B:ISIN XS0082720698
BIRS 0 97/28
:16S:TRADDET
:16R:FIAC
:36B::SETT//FAMT/10000,
:97A::SAFE//12345
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//CEDELULL
:16S:SETPRTY
:16R:SETPRTY
:95R::DEAG/CEDE/67890
:16S:SETPRTY
:16S:SETDET
-}
{1:F01CEDELUL0AXXX0000000000}{2:I542CEDELUL0AXXXN}{3:{108:BANKLULLXXXX}}{4:
:16R:GENL
:20C::SEME//GFT-CS-MT542
:23G:NEWM
```

```
:16S:GENL
:16R:TRADEDET
:98A::SETT//20080903
:35B:ISIN XS0082720698
BIRS 0 97/28
:16S:TRADEDET
:16R:FIAC
:36B::SETT//FAMT/100000,
:97A::SAFE//12345
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//CEDELULL
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/CEDE/67890
:16S:SETPRTY
:16S:SETDET
-}
</Data>
  </Payload>
</Exchange>
```

## Feedback file

Immediately upon receipt of a customer cash or securities instruction, Clearstream Banking runs a syntactical validation routine to check for format and completeness.

Badly formatted or erroneous securities instructions that are identified in the initial validation routine will not be processed further by Clearstream Banking and will be advised to the customer immediately by means of a technical feedback file.

**Note:** Where an instruction contains more than one error, Clearstream Banking cannot guarantee to identify each error in the advice of error message sent to the customer.

## Correlation of the Feedback file to relevant instruction file

The technical feedback file can be correlated to the relevant instruction file using the &RFILE parameter. For example, if &RFILE is set to "TCHFBC", then the name of the technical feedback file will be TCHFBC.TXT. For more details on using the &RFILE parameter please refer to the CreationDirect User Manual.

## Feedback file structure

The structure of the feedback file depends upon the results of the instruction file validation:

- If the instruction file is found to be valid, the feedback file will have the same structure as the instructions file. It will contain the same number of ISO messages as on the inbound file and its envelope will be exactly the same as that of the inbound file.

Additionally, each ISO format instruction will have the results of its validation added to it. The number of errors reported arising from this validation is limited to a maximum of ten errors per ISO format instruction.

- If the instruction file is found to be invalid, it will contain just one message.

## Valid instruction file

If the instruction file is found to be valid, each ISO message has the results of its validation added to it as a sixth block with format {6:STATUS:3!n/100x} where:

3!n        represents the status value

100x      represents the status description

## Status messages

Possible values for the status message are as follows:

Status value	Status description
000	OK
001	SWIFT MESSAGE TYPE NOT ACCEPTED
002	ACCOUNT NOT AUTHORISED FOR THIS EMITTER
003	MESSAGE NOT ISO15022 COMPLIANT
004	MESSAGE DOES NOT COMPLY WITH CLEARSTREAM BANKING SWIFT CUSTOMER GUIDE RULES plus CreationDirect error message - see below for details
005	MESSAGE NOT SWIFT COMPLIANT plus Network Validated Rule

The specific errors arising from status value 004 are shown in the following table.

#### CreationDirect error messages

25 is a mandatory field <sup>a</sup>
33B is a mandatory field <sup>a</sup>
53a is a mandatory field <sup>a</sup>
53a is not valid. It must be :53a:[/1!a]/CEDEL or :53a:[/1!a]/cedel <sup>a</sup>
56a is a mandatory field <sup>a</sup>
57a is a mandatory field <sup>a</sup>
Cash instructions must contain header/trailer <sup>a</sup>
Field 97A in sequence E1 not found
File must be ASCII (DOS) format compliant <sup>a</sup>
File must be ASCII (DOS) or EBCDIC format compliant <sup>a</sup>
In field 70E of sequence B, code word /ADDSETN/ and /ADDSETD/ cannot be together
Invalid Account set-up. Please contact your local customer services officer and ask for your account to be linked to your CreationDirect address
Invalid accrued interest Sequence E3 field 19A
Invalid amount Sequence E3 field 19A (SETT)
Invalid code in field 36B of sequence C. Code AMOR not allowed
Invalid code in field 23B. Only 'CRED' value is allowed <sup>a</sup>
Invalid combination of fields (22F, 23G, 35B, 95a). Internal transaction type cannot be identified
Invalid counterparty account number
Invalid fees Sequence E3 field 19A (SPCN)
Invalid field 70D in sequence C (invalid nominal value)
Invalid field 70D in sequence C (invalid number of nominal value)
Invalid format for tag 95Q
Invalid format of field 95Q, sequence E1
Invalid ISO15022 Message
Invalid option P, Q or R of field 95, sub sequence E1 qualifier DEAG or REAG
Invalid option in field 56a, only option A is allowed <sup>a</sup>
Invalid option in field 56a, only options A and D are allowed <sup>a</sup>
Invalid option in field 57a, only options A and D are allowed <sup>a</sup>
Invalid price Sequence B field 90
Invalid qualifier in field 97 in sequence C. Qualifier SAFE has not been found
Invalid quantity Sequence C field 36B
Invalid trade amount Sequence E3 field 19A (DEAL)
Mandatory Field 97 option A not found in sequence E1
Message type not allowed
Missing Account number either in 95R or in 97A (SAFE)
Missing field 19A, sequence E3, qualifier STAM
Missing Field 94 (place of trade) sequence B
Missing field 95, sequence E1
No internal/bridge physical instruction allowed
No settlement amount in this instruction. Field 19A of sequence E3 not found
No valid Security code found in field 35B
Only one occurrence of sequence C is allowed in message MT54x
Only option A of field 97 in sequence C must be used
Place of Settlement unknown
Priority incompatibility. Invalid combination of field 22F and field 70E. in sequence B
Qualifier RTGS allowed only for internal instruction
Technical error during processing of the message

---

a. This error message is new for the cash service.

## Example of a feedback file for a valid instruction file

The example below shows a feedback file with a status 004 error message for the second instruction, an MT543 message. This instruction was rejected because option B was used instead of option A in field :97a: (Safekeeping Account) in sequence C, Financial Instrument/Account.

```
HEADERCLEARSTREAM BANKING
{1:F01CEDELULLAXXX000000000}{2:I540CEDELULLAXXXN}{3:{108:BANLULXXXX}}{4:
:16R:GENL
:20C::SEME//CHECK-53A1
:23G:NEWM
:16S:GENL
:16R:TRADDET
:98A::SETT//20010508
:98A::TRAD//20010504
:35B:ISIN HK0008009653
:70E::SPRO//ab/ADDPRTY/
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/10,
:97A::SAFE//12345
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//HKSCHKH1
:16S:SETPRTY
:16R:SETPRTY
:95Q::DEAG//BANK LTD
:16S:SETPRTY
:16R:SETPRTY
:95Q::SELL//BANKB LTD
:97A::SAFE//12345
:16S:SETPRTY
:16R:SETDET
-
}{6:STATUS:000/OK}{1:F01CEDELULLAXXX000000000}{2:I543CEDELULLAXXXN}{3:{108:BANK
XXXX}}{4:
:16R:GENL
:20C::SEME//2310702-P3
:23G:NEWM
:16S:GENL
:16R:TRADDET
:98A::SETT//20010508
:98A::TRAD//20010504
:35B:ISIN DE0001025708
:16S:TRADDET
:16R:FIAC
:36B::SETT//FAMT/240000,
:97B::SAFE//ABRD/11215TEST
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95P::PSET//CEDELULL
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/CEDE/12345
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR192000,
:16S:AMT
:16R:SETDET
-}{6:STATUS:004/MESSAGE DOES NOT COMPLY WITH CLEARSTREAM BANKING SWIFT CUSTOMER
GUIDE RULES/9017/Only option A of field 97 in sequence C must be used.}
TRAILERCLEARSTREAM BANKING00000000000002
```



## Invalid instruction file

If the instruction file is found to be invalid, the file will contain just one message, the status message, with the following format:

- Line 1: "Status" (3!n/100x), where:  
3!n represents the status value; and  
100x represents the status description;  
Line 2: "File received at" (Date/Time receipt timestamp provided by CreationDirect);  
Line 3: "File Name" (File name).

Status messages are grouped by account number within the same scheduled report file and possible values are as follows:

Status value	Status description
104	File is not readable; for example, it does not contain SWIFT messages
105	Expected number of SWIFT messages (as indicated on the trailer) is different from the actual number of messages found in the file
106	File does not have a correct header
107	File does not have a correct trailer
108	Failed file header validation error. FIELD_NAME supplied in the header is incorrect
109	Failed file validation error. Only one Payload must be present in the file
110	Failed file validation error. Missing account setup for Giovannini File Transfer request
110	Failed file validation error. File must be Giovannini compliant
110	Failed file validation error. Block 5 not allowed
110	Failed file validation error. Payload not SWIFT compliant
111	File encoding is not UTF-8

### Example of a feedback file for an invalid instruction file

```
HEADERCLEARSTREAM BANKING
{6:STATUS:104/File is not readable; for example, it does not contain SWIFT
messages
FILE RECEIVED AT: 2005-04-14 08:45:59
FILE NAME: VPN104_001.txt}
TRAILERCLEARSTREAM BANKING0000000000001
```

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## 2. Corporate Actions reference data

Customers can submit a list of security codes to Clearstream Banking and receive a report with all Corporate Actions Notifications associated with the securities. This report will be sent to the CreationDirect FileStore.

Additionally, Triparty Repo customers can receive Corporate Actions Notifications and Income Pre-advices for securities blocked in Triparty repo transactions.

The steps below must be followed in order to receive the report:

1. Customers must schedule the generation of the report in CreationOnline. This specifies the delivery channel and the options that will apply to the report. The schedule must only be set-up once to enable the generation and delivery of reports.
2. Customers then upload, using CreationDirect via Internet, a file containing the list of security codes for which they require Corporate Actions and IPAR Notifications.
3. Upon receipt of the list of security codes, the report is automatically scheduled and will be produced on a daily basis. This step is not required for Triparty Repo Subscriptions.
4. If customers want to add or remove securities from the list, they must resubmit a complete list of security codes. The new list will supersede the old one.

### Input file

The customer input file containing the list of securities must be an ASCII text file with the following structure:

- Header (first line) must be `HEADERCLEARSTREAM BANKING`
- There must be one single security code per line, either ISIN or Common Code (the file may contain a mix of ISIN and Common Codes)
  - Format of Common Code must be 12!n, i.e. 12 numbers fixed length with leading zeroes (e.g. 000123456789)
  - Format of ISIN must be 12!cSEC1!e, i.e. 12 characters fixed length determining the ISIN, followed by the code word `SEC`, followed by a space (e.g. AB1234567891SEC\_)
- Trailer (last line) must be `TRAILERCLEARSTREAM BANKING13!n`  
where 13!n equals the total number of ISIN/Common codes contained in the file, with leading zeroes up to the fixed length of 13 numbers. In case a security is listed more than once, it will only be considered once. Example: `TRAILERCLEARSTREAM BANKING0000000000123`
- The filename must be: `card.input.CUSTREP NAM.csv`  
where CUSTREP NAM is the Customer Report Name of the scheduled report in CreationOnline.  
If the filename is not correct, the list of instruments cannot be applied to the scheduled report (reflected in "Financial Instruments File timestamp" in CreationOnline) and a "NoSub" validation file is returned in CreationDirect to indicate the failed upload.

Example of a file:

card.input.MYREPORT.csv

```
HEADERCLEARSTREAM BANKING
000001000101
LU0010001369SEC_a
GB0040133505SEC_
TRAILERCLEARSTREAM BANKING0000000000003
```

a. "\_" represents a space

Customers must upload the Input file in their "Instructions\_inbox" folder of CreationDirect via Internet.

Once an input file has been sent to Clearstream Banking, a copy is stored in the "Instructions\_sent" folder for 5 days.

When a new file (with same file name) is received and accepted, it will overwrite the previous file and update the corresponding report schedule.

## Validation file

When submitted, the input file is validated by Clearstream Banking and a status file is created and sent to the CreationDirect via Internet "Report" folder.

1. If the syntax validation of the file is successful and the list of financial instruments can be applied to the customer's report subscription, a status file with the following naming convention is sent:

card.status.CUSTREPNAM.OK.ENDPERIOD.BDATE.xml

where

- CUSTREPNAM is the name customers gave the report at subscription in CreationOnline
- OK indicates a successful validation status
- ENDPERIOD is the system time (HHMM format),
- BDATE is the business date (YYYYMMDD format).

A successful file contains "OK" plus the number of Financial Instruments received.

2. If the syntax validation of the file is unsuccessful and the syntax validation of the file content failed, a status file with the following naming convention is sent:

card.status.CUSTREPNAM.NOK.ENDPERIOD.BDATE.xml

where

- NOK indicates an unsuccessful validation status

An unsuccessful file contains "NOK" plus the relevant error message(s).

If the file is syntactically correct but contains one or more invalid ISIN or Common Codes, the entire file is rejected.

3. If no Report Subscription exists for an input file, a status file with the following naming convention is sent:

card.status.CUSTREPNAM.NOSUB.ENDPERIOD.BDATE.xml

where

- NOSUB indicates an unsuccessful validation status

## Output file

The report is produced every business day before 06:00 CET and is sent to the customers' CreationDirect address. The report has the following naming convention:

card.output.CUSTREPNAME.FREQ.MODE.ENDPERIOD.BDATE.TID.EXT

where

- CUSTREPNAME is the Customer Report Name
- FREQ is always "DAILY"
- MODE is either "DELTA" or "COMPLETE"
- ENDPERIOD is the system time (HHMM format)
- BDATE is the "Business Date" (in format YYYYMMDD).
- TID is the Clearstream Banking internal template identifier
- EXT is either "ISO", "PDF" or "XML"

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### 3. French Financial Transaction Tax (FTT)

Customers can submit FTT Declarations using their CreationDirect FileStore. Valid declarations are then forwarded to Euroclear France. The resulting FTT Status Message is automatically posted on the originating filestore.

The steps below must be followed:

1. Customers upload, using CreationDirect via Internet, a file containing the transactions they must declare under the French Financial Transactions Tax.
2. Upon receipt of the declaration, the file is validated by Clearstream. Incorrect files are rejected and a technical rejection is sent.
3. If the declaration is valid, it is immediately forwarded to Euroclear France. An FTT Status Message is then sent by Euroclear France notifying acceptance or rejection of the declaration. Clearstream Banking posts the validation as soon as it is received from Euroclear France.

#### Input file

The customer declaration file must contain an ASCII text file formatted as a CSV with the following structure:

- The filename must be:  
ftt.decl.CUSTFT.DATE.TIME.csv  
where
  - CUSTFT is the file name defined by the customer
  - DATE is the date the declaration is submitted (YYYYMMDD)
  - TIME is the time the declaration is submitted (HHMMSS)
- The elements in the file must be separated by a colon (;)

Please refer to the [French FTT declaration and status description Excel file](#).

#### Example of a declaration

##### ftt.decl.MYFTT.20121002.164530.csv

```
641;D;5493.76;6;20121002;201211;/12345/MyFTT001;CEDELULLXXX;Clearstream Banking;42 Av. Kennedy;LUX;NONE  
1;Transaction1;S;N;FR0000120685;20121010;20121013;123;UNT;26468,76;Y; ;264.69;XPAR;  
2;Transaction2;R;N;FR0000130809;20121010;20121013;124;UNT;421778;Y; ;4217.78;XPAR;  
3;Transaction3;S;N;FR0000130810;20121010;20121013;125;UNT;1128,70;Y; ;11.29;XPAR;  
4;Transaction4;S;N;FR0000130810;20121010;20121013;126;FMT;100000,00;Y; ;1000;XPAR;Narrative Transaction4  
5;Transaction5;S;N;FR0000130809;20121010;20121013;127;UNT;15928,72;N;2;0;XPAR;Narrative Transaction5  
6;Transaction6;S;N;FR0000130812;20121010;20121013;128;UNT;928,73;N;3;0;PLAC;Narrative for Transaction6
```

Customers must upload the declaration file in their "Instruction\_inbox" folder of CreationDirect via Internet.

Once an input file has been sent to Clearstream Banking, a copy is stored in the "Instructions\_sent" folder for 5 days.

## Validation file

When submitted, the input file is validated by Clearstream Banking and a status file is created and sent to the CreationDirect via Internet "Report" folder.

1. If the syntax validation of the declaration is successful and it was subsequently accepted by Euroclear France, a status file with the following naming convention is sent:

ftt.decl.faccept.CUSTFT.DATE:TIME.csv

where

- CUSTFT is the file name defined by the customer
- DATE is the date the declaration feedback is submitted,
- TIME is the time the declaration feedback is submitted.

2. If the syntax validation of the file is unsuccessful and the syntax validation of the file content failed, a status file with the following naming convention is sent:

ftt.decl.treject.CUSTFT.DATE:TIME.csv

3. If the business content of the file is incorrect, a status file with the following naming convention is sent:

ftt.decl.freject.CUSTFT.DATE:TIME.csv

If the file is syntactically correct but contains one or more invalid transactions, the entire file is rejected and must be resubmitted.

Please refer to the [French FTT declaration and status description Excel file](#).

## Example of a rejection file

```
607;D;28653,06;3;20121012;201211;/82700/MyFTTDeclaration001;CEDELULLXXX;Clearstream Banking;42 Av. Kennedy;LUX;none;C0103004;MISMATCH BETWEEN TOTAL TAX AMOUNT HEADER FIELD 3 AND ALL INDIVIDUAL TRANSACTIONS;20121017172108
```



## 4. Receiving reports

CreationDirect customers should contact the Clearstream Banking Connectivity Help Desk concerning their reporting requirements<sup>1</sup>.

As reports are generated, they are packaged as standard output messages within the ISO envelope according to the standard ISO (SWIFT) messaging guidelines with a header and a trailer record added.

Clearstream offers the choice of two different formats for the headers and trailers:

- CreationDirect format (available on all CreationDirect channels).
- Giovannini File Transfer Rulebook format. (only available on CreationDirect via Internet and CreationDirect via FileAct)

The choice between the two formats can be specified by the customer during the address setup. For CreationDirect via Internet, this can be done in CreationOnline via a new flag in the Filestore settings. For CreationDirect via FileAct, the option is available via the main subscription form. Customers may also request to use the new Giovannini File Transfer header by sending an authenticated MT599 or by contacting the Connectivity Help Desk.

Once a format is specified on a CreationDirect Address, it will apply to all Clearstream inbound (instructions) and outbound (reports) ISO files transmitted via the specified address.

If a particular report exceeds the size limit for ISO messages, it will be split into as many messages as are necessary.

A scheduled report may be requested for more than one account number. In this case, the messages are grouped by account number within report schedule.

### Available ISO Messages types

Below are the ISO message types supported by CreationDirect.

#### Clearing and settlement reports

MT508 Intra-Position Advice

MT544 Receive free confirmation

MT545 Receive against payment confirmation

MT546 Deliver free confirmation

MT547 Deliver against payment confirmation

MT548 Settlement Status and Processing Advice

MT578 Settlement Allegements Report

---

<sup>1</sup> Use CreationOnline to schedule requests for the retrieval of reports via CreationOnline, CreationDirect or Creation via SWIFT.

## Securities statements

MT535 Statement of Holdings report  
MT536 Statement of Transactions report  
MT537 Statement of Pending Transactions report  
MT538 Statement of Intra-Position Advices  
MT586 Statement of Settlement Allegements report

## Cash statements and reports

MT900/910 Confirmation of Debit/Credit  
MT940 Money Suspense Report  
MT942 Interim Money Suspense Report  
MT950 Money Statement  
MT950 Cash Balance report  
MTn95 Query Message - Negative Validation Feedback

## Custody reports

MT564 Corporate Action Notification  
MT564 Income Pre-Advice Report (IPAR)  
MT566 Corporate Action Confirmation  
MT566 Confirmation of Income/Redemptions Proceeds  
MT568 Corporate Action Narrative

## Triparty Collateral Management reports

MT569 Triparty Collateral and Exposure Statement

## Miscellaneous reports

MT290 Securities Lending and Borrowing Common report  
MT935 Monthly Interest Scale report  
USTAX U.S. Withholding Tax report

## ISO report files naming convention

The naming structure for ISO report files (other than the MT548 Validation Feedback report - see overleaf) is as follows:

ACCOUNT.CUSTOMERREPORTNAME.REPTYP.FREQ.MODE.ENDPERIOD.BDATE.GROUPID.ISO

where:

**ACCOUNT** = Customer account number (5 Digits). For MT569 (TRPCOLRECSTMNT), the customer CmaX short code will be used.

**CUSTOMERREPORTNAME** = Customer Report Name. This is the name that is input by the customer at the report subscription within CreationOnline (maximum 60 characters).

**Note:** CUSTOMERREPORTNAME can contain only characters that are supported by UNIX file names.

**REPTYP** = Report type. This can have the following values:

CACONF, CANOTIF, CASHBAL, CASHCONF, INTERIMMONEYSUSP, INTRAPOSADV, INTRAPOSSTMNT, MIS, MONEYSTMNT, MONEYSUSP, SETTALGMNT, SETTCONF, SETTSTATUS, SLBC, STMNTOFALLGMNT, STMNTOFHOLD, STMNTOFPEND, STMNTOFTXN, TRPCOLRECSTMNT, TRPCOLGIVSTMNT, USTAXALL, USTAXNONUSPERSON, USTAXUSPERSON

**FREQ** = Report frequency. This can have the following values:

ALWAYS, CONT, DAILY, INTRADAY, MONTHLY, QUARTERLY, WEEKLY, YEARLY

**MODE** = Either Complete or Delta

**ENDPERIOD** = Business day processing time (HHMM). This can have the following values:

0000, 0100, 0200, 0300, 0400, 0500, 0630, 0730, 0830, 0930, 1030, 1130, 1200, 1300, 1330, 1430, 1530, 1600, 1630, 1700, 1800, 1930, 2100, 2200, 2300

**BDATE** = Business date (YYYYMMDD)

**GROUPID** = A number uniquely identifying the report subscription.

**ISO** = File extension: fixed = **ISO**

**Note:** ISO reports with the GFT Rulebook header will have the extension .ISO.XML

## File naming convention for the MT548 Validation Feedback report file

The naming structure for the MT548 Validation Feedback report file is as follows:

ACCOUNT.CUSTOMERREPORTNAME.REPTYP.FREQ.MODE.ENDPERIOD.BDATE.ISO

where:

**ACCOUNT** = Customer account number: fixed = **MULTI**

**CUSTOMERREPORTNAME** = Customer Report Name: fixed = **548**

**REPTYP** = Report type. fixed = **VALFDBCK**

**FREQ** = Report frequency: fixed = **continuous**

**MODE** = Either Complete or Delta: fixed = **COMPLETE**

**ENDPERIOD** = The time it was released from the Creation Platform (HHMM).

**BDATE** = Business date (YYYYMMDD)

**ISO** = File extension: fixed = **ISO**

**Note:** MT548 validation feedback reports with the GFT Rulebook header will have the extension .ISO.XML

For example:

MULTI.548.VALFDBCK.continuous.COMPLETE.1645.20030801.ISO

**Note:** The MT548 Validation Feedback report cannot be subscribed to as such but is sent automatically to CreationDirect customers whenever instructions are rejected by Clearstream Banking.

## File naming convention for the MTn95 Validation Feedback report file

The naming structure for the MTn95 Validation Feedback report file is as follows:

ACCOUNT.CUSTOMERREPORTNAME.REPTYP.FREQ.MODE.ENDPERIOD.BDATE.ISO

where:

**ACCOUNT** = Customer account number: fixed = **MULTI**

**CUSTOMERREPORTNAME** = Customer Report Name: fixed = **n95**

**REPTYP** = Report type: fixed = **VALFDBCK**

**FREQ** = Report frequency: fixed = **continuous**

**MODE** = Either Complete or Delta: fixed = **COMPLETE**

**ENDPERIOD** = The time it was released from the Creation Platform (HHMM).

**BDATE** = Business date (YYYYMMDD)

**ISO** = File extension: fixed = **ISO**

**Note:** MTn95 Validation Feedback reports with the GFT Rulebook header will have the extension .ISO.XML

For example:

MULTI.n95.VALFDBCK.continuous.COMPLETE.180920070516.ISO

**Note:** The MTn95 Validation Feedback report cannot be subscribed to as such but is sent automatically to CreationDirect customers whenever instructions are rejected by Clearstream Banking.

## File naming convention for the CreationDirect Technical Feedback report file

The naming structure for the CreationDirect Feedback report file is as follows:

TASKID.DATE.TIME.CUSTOMERFILENAME.ISO.TECHFDBCK.ISO

The naming convention for technical feedback files has been designed to help customers to match each instruction with its corresponding technical feedback file. The CreationDirect Technical Feedback report does not follow a valid ISO15022 format, and is therefore not applicable for the GFT Rulebook header

In the above example, the original instruction file is:

**TASKID** = Task ID

**DATE** = The date the instruction file was sent to CBL (YYYYMMDD)

**TIME** = The time it was sent to CBL (HHMMSS)

**CUSTOMERFILENAME** = The name of the file when it was sent to CBL

**ISO** = Indicator that this is an ISO file

**TECHFDBCK** = The report type

**ISO** = File extension: fixed = **ISO**

## ISO report file structure

### CreationDirect format

The envelope of the report file has the following structure.

#### Structure of ISO report file

Header
One or more ISO messages:
Trailer (for transmission control)

**Note:** By default, reports delivered to customers using CreationDirect via LiMa contain no Header or Trailer. Customers using CreationDirect via LiMa must specifically request that their reports should contain Headers and Trailers.

### Header format

The header has the format 25! and values as follows:

```
25!a    HEADERCLEARSTREAM BANKING
```

### ISO messages

The ISO messages and envelope are formatted according to standard ISO (SWIFT) messaging guidelines.

**Note:** Only blocks 1 to 4 are included in messages; block 5 is not included.

On all business reports, the BIC address for Clearstream Banking in block 1 is always CEDELULLFXXX (see ["Example of a CreationDirect format report file"](#) on page 4-6).

### Trailer format

The trailer has the format 26!a13!n and values as follows:

```
26!a    TRAILERCLEARSTREAM BANKING
```

```
13!n    The number of SWIFT messages in the file (right-aligned with leading zeros),  
        for example, 0000000000005
```

## Example of a CreationDirect format report file

The example below shows an input file containing two MT535 messages.

```
HEADERCLEARSTREAM BANKING
{1:F01CEDELULLFXXX0000000000}{2:05351755021202CEDELULLEXXX0000000000212021755N}
{3:{108:REPORTSERVER}}{4:
:16R:GENL
:28E:1/ONLY
:13A::STAT//009
:20C::SEME//00000000Z8O2R
:23G:NEWM
:98C::STAT//20011113160000
:22F::SFRE//INDA
:22F::CODE//COMP
:22F::STTY//CUST
:22F::STBA//SETT
:97A::SAFE//12345
:17B::ACTI//N
:17B::CONS//N
:16S:GENL
-}
{1:F01CEDELULLFXXX0000000000}{2:05351756021202CEDELULLIXXX0000000000212021756N}
{3:{108:REPORTSERVER}}{4:
:16R:GENL
:28E:1/ONLY
:13A::STAT//009
:20C::SEME//00000000Z8RXL
:23G:NEWM
:98C::STAT//20011113160000
:22F::SFRE//INDA
:22F::CODE//COMP
:22F::STTY//CUST
:22F::STBA//SETT
:97A::SAFE//12345
:17B::ACTI//N
:17B::CONS//N
:16S:GENL
-}
TRAILERCLEARSTREAM BANKING00000000000002
```

## Giovannini File Transfer Rulebook XML Header

### Header format

Clearstream reports will follow the standard format as defined by SWIFT in the GFT Rulebook specifications which are available on [www.swift.com](http://www.swift.com).

### Header content

The following fields are supplied in the transmission:

**Sender**

will contain 'CEDELULL'.

**Receiver**

For files sent by CreationDirect via Internet, this will contain your CreationDirect via Internet address. For files sent by CreationDirect via FileAct, this contains the BIC-8 of your institution.

**Payload identifier**

Contains the file name following Clearstream file naming conventions. For compressed files, this field will also contain the .GZ extension.

**Creation date and time**

Contains the Creation date and time in the format DD-MM-YYYY HH:MM:SS

**Payload type**

Contains 'ISO15022'

**Number of Documents**

Contains the exact number of ISO messages present in the payload

**Document delimiter**

Contains '-}'

**Note:**

- Non ISO messages will not be transmitted with the Giovannini FT Header. For non-ISO messages, the Clearstream CreationDirect formats will continue to apply.
- GFT compliant files will use UTF-8 encoding.

### ISO messages

The ISO messages and envelope are formatted according to standard ISO (SWIFT) messaging guidelines.

**Note:** Only blocks 1 to 4 are included in messages; block 5 is not included.

On all business reports, the BIC address for Clearstream Banking in block 1 is always CEDELULLFXXX (see [“Example of a CreationDirect format report file”](#) on page 4-6).

## Example of a GFT Rulebook header report file

```
<?xml version="1.0" encoding="UTF-8" ?>
<Exchange xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <Header>
    <Sender>
      <Identifier>CEDELULL</Identifier>
    </Sender>
    <Receiver>
      <Identifier>WEBX712001</Identifier>
    </Receiver>
  </Header>
  <PayloadDescription>
    <PayloadDetails>
      <PayloadIdentifier>64059.CDI_MT537_ISO_64059.STMNTOFPEND.
      INTRADAY.COMPLETE.1930.20080901.2207195.ISO.XML
      </PayloadIdentifier>
      <CreationDateAndTime>2008-10-31 16:09:58</CreationDateAndTime>
    </PayloadDetails>
    <PayloadTypeDetails>
      <Type>ISO15022</Type>
    </PayloadTypeDetails>
    <TechnicalInfo>
      <DocumentDelimiter>-}</DocumentDelimiter>
    </TechnicalInfo>
    <ManifestDetails>
      <NumberOfDocuments>1</NumberOfDocuments>
    </ManifestDetails>
  </PayloadDescription>
  <Payload>
    <Data>
{1:F01CEDELULLFXXX0000000000}{2:01951730081017CEDELULLFXXX00000000000810171730N}
{4:
:20:02EC5N000001
:21:GFT-CDI-103-9X1
:75:Message Rejected.
Please reinstruct corrected message
:11R:103
081017
:79:/REJT/20
/XG01/Duplicate instruction is not permitted
/MREF/GFT-CDI-103-9X1
/TEXT/:23B:CRED
//:32A:080901USD270,27
//:33B:USD270,27
//:50A:PARBFRPP
//:53A:/CEDEL 12345
//BANKLULLXXX
//:57A:CEDELULL
//:59A:/79999
//BANKBEBB
//:71A:SHA
-}
    </Data>
  </Payload>
</Exchange>
```



## Terms and conditions file naming convention

Customers can request terms and conditions from the Terms & Conditions tab of the Financial Instrument Reference Data detailed view screen in CreationOnline.

The delivery is immediate through CreationDirect via Internet.

The requested document is sent to a dedicated folder, called "Terms and Conditions", in the CreationDirect FileStore.

The report has the following naming convention:

ISIN\_Doc-id\_Lng\_User-id\_Ref-id\_Tmstamp.Ext

where

ISIN = the security ISIN code (max 12 char.)

Doc-id = the document id as defined in Hyparchive (link name) (max 12 char.)

Lng = the language (ISO code) of the requested document (max 3 char.)

User-id = the CreationOnline user-id of the requestor (max 35 char.)

Ref-id = the request reference id (max 16 char.)

Tmstamp = the file creation timestamp (YYYYMMDD.HHMMSS)

Ext = File extension:DOC, JPG, PDF, TXT, TIF, etc.

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## 5. XML Report Specifications

### XML report file naming conventions

The naming structure for XML report files is as follows:

ACCOUNT.CUSTOMERREPORTNAME.REPTYP.FREQ.MODE.ENDPERIOD.BDATE.GROUPID.XML

where:

**ACCOUNT** = Customer account number (5 Digits).

**CUSTOMERREPORTNAME** = Customer Report Name. This is the name that is input by the customer at the report subscription within CreationOnline (maximum 60 characters).

**Note:** CUSTOMERREPORTNAME can contain only characters that are supported by UNIX file names.

**REPTYP** = Report type. This can have the following values:

CACONF, CANOTIF, CASHBAL, CIRPR, INTERIMMONEYSUSP,  
INTRAPOSSTMNT, IPAR, MKTCLM, MIS, MONEYSTMNT,  
MONEYSUSP, SLBC, STMNTOFALLGMNT, STMNTOFHOLD,  
STMNTOFPEND, STMNTOFREPR, STMNTOFTXN,  
TRPCOLGIVSTMNT, TRPCOLRECSTMNT, USTAXALL,  
USTAXNONUSPERSON, USTAXUSPERSON, UUNOTIF

**FREQ** = Report frequency. This can have the following values:

ALWAYS, CONT, DAILY, INTRADAY, MONTHLY, QUARTERLY,  
WEEKLY, YEARLY

**MODE** = Either Complete or Delta

**ENDPERIOD** = Business day processing time (HHMM). This can have the following values:

0000, 0100, 0200, 0300, 0400, 0500, 0600, 0630, 0730, 0830, 0930,  
1000, 1030, 1130, 1200, 1300, 1330, 1430, 1530, 1600, 1630, 1700,  
1800, 1930, 2000, 2100, 2200, 2300

**BDATE** = Business date (YYYYMMDD)

**GROUPID** = A number uniquely identifying the report subscription.

**XML** = File extension: fixed = **XML**

## XML report grouping

Customers have the option to group reports for more than one account into a single XML file. The option can be activated when scheduling any report in XML format in CreationOnline

The structure of the XML remains unchanged except for a new element grouping all different account:

<...xmlreport...RepBundle>

where ...xmlreport... shows the label determining the type of report.

### Example MT950 Cash Balances <CashBalRepBundle>

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
-<CashBalRepBundle>
  -<CashBalRep repTmpFlg="N" xmlId="407495736" repFreq="INTRADAY" repMode="COMPLETE" tmstmp="2009-04-21T13:41:47">
    -<CustRepOptSubscr tmpId="2253291" zeroBallInclFlg="N" schdId="2341500" antNetBallInclFlg="N" tmpDetId="2305501">
      <RepSubscrNm>MT950 CB ER25258 GFV</RepSubscrNm>
    </CustRepOptSubscr>
    -<Per>
      <PerStart busEvt="R18" busTime="16:30:00" dt="2009-03-10" />
      <PerEnd busEvt="R19" busTime="17:00:00" dt="2009-03-10" />
    </Per>
    -<Acct>
      <AcctNm>CLEARSTREAM ASLPLUS</AcctNm>
      <AcctId acctOrig="CBL"12345</AcctId>
    </Acct>
    -<CashBal.section actvFlg="N">
      <CashInstr isoCurrCd="EUR" />
      <Bal lstUpdTmstmp="2009-03-10T17:00:00" lstUpdBusDt="2009-03-10">-76.000000</Bal>
    </CashBal.section>
    -<CashBal.section actvFlg="N">
      <CashInstr isoCurrCd="GBP" />
      <Bal lstUpdTmstmp="2009-03-10T17:00:00" lstUpdBusDt="2009-03-10">452812.500000</Bal>
    </CashBal.section>
    -<CashBal.section actvFlg="N">
      <CashInstr isoCurrCd="USD" />
      <Bal lstUpdTmstmp="2009-03-10T17:00:00" lstUpdBusDt="2009-03-10">694572.000000</Bal>
    </CashBal.section>
  </CashBalRep>
  -<CashBalRep repTmpFlg="N" xmlId="407495736" repFreq="INTRADAY" repMode="COMPLETE" tmstmp="2009-04-21T13:41:47">
    -<CustRepOptSubscr tmpId="2253291" zeroBallInclFlg="N" schdId="2341500" antNetBallInclFlg="N" tmpDetId="2305501">
      <RepSubscrNm>MT950 CB ER25258 GFV</RepSubscrNm>
    </CustRepOptSubscr>
    -<Per>
      <PerStart busEvt="R18" busTime="16:30:00" dt="2009-03-10" />
      <PerEnd busEvt="R19" busTime="17:00:00" dt="2009-03-10" />
    </Per>
    -<Acct>
      <AcctNm>EUREX CLEARING AG</AcctNm>
      <AcctId acctOrig="CBL"11111</AcctId>
    </Acct>
  </CashBalRep>
  +<CashBalRep repTmpFlg="N" xmlId="407495740" repFreq="INTRADAY" repMode="COMPLETE" tmstmp="2009-04-21T13:41:47">
```

New XML tag

Account 1

Account 2

## Appendix A. Glossary of XML attributes

XML Attribute	Description
@acctOrig	Cash account origin
@actvCd	Activity code
@actvFlg	Activity flag
@altIdTyp	Alternative settlement party identifier type
@amntPrcTyp	Price (Intermediary Security)
@availCd	Available flag
@balTyp	Balance type
@busEvt	Start business event of reporting period
@busTime	From business timestamp
@CAAddNarrTyp	Narrative type
@CAAmntPrcTyp	Price type (CA Detail)
@CACashMveTyp	Cash movement type
@CADtCdTyp	Event date code type (CA Option)
@CADtTyp	Date (Security Movement)
@CAEvtIndTyp	Payment type
@calDt	Call date
@CAMandVoluntIndTyp	Mandatory/Voluntary type
@CANarrTyp	Narrative type (CA Option)
@CAOptCdIndTyp	Payment type
@CAPctPrcTyp	Price type (CA Option)
@CAPerTyp	Period (Security Movement)
@CARef	Corporate Action Reference
@CASecMveTmpTyp	Security movement temporary
@CASecMveTyp	Security movement type
@cashMveAmntTyp	Amount type
@cashMveDt	Aggregate Value date
@chgOrigMsgFlg	General Information
@commissAmntTyp	Total commission amount type
@commonCd	Common code (Security Movement)
@confInd	Confirmation Indicator
@convDt	Conversion date
@convTypIndCd	Conversion type
@corpActEvtIndTyp	Corporate action event indicator type
@coupDt	Coupon date (CA Option)
@ctryCd	Alternative settlement party identifier country
@custdyEvtCd	CA event code
@CustdyEvtTyp	Custody event type
@custdyReasonCd	CA reason code

XML Attribute	Description
@DayTyp	Day type (Security Movement)
@dfltProcFlg	Default Indicator
@dispoFracIndTyp	Fractions Handling Type (Intermediary Security)
@distTypIndCd	Distribution type code
@divTypIndCd	Dividend type code
@dt	End business date
@dtDt	Date
@effctvDt	Effective date
@effSettleDt	Value date
@eligCd	Eligible code
@entryDt	Entry date
@evntTypCd	Event type code
@execDt	Execution date
@exmptCdId	Exemption code ID (total)
@expcSettleDt	Expected settlement date
@expDt	Expiry date (Security Movement)
@fctMsg	Function of message
@fgFlg	Fungibility flag
@filterCd	Filter code
@finInstrQtyCdTyp	Financial instrument quantity type code
@finInstrQtyTyp	Financial instrument quantity type (CA Detail)
@finRateTyp	Financial instrument rate type (CA Option)
@fltgRateNoteDt	Floating Rate Note Reset Date (CA Option)
@frgnXchgTypCd	Foreign exchange type code
@frstIsoCurrCd	First currency code (CA Detail Exchange rate)
@gmtOffset	Offset to GMT
@inputMedia	Input media
@insTypCd	Instruction type
@intAmntStatus	Interest amount status
@intermDtCdTyp	Termination date (Intermediary Security)
@intermDtTyp	Termination date (Intermediary Security)
@intermRateTyp	Rights rate
@intEvntTypCd	Internal event type code
@intTyp	Debit/Credit (interest)
@iRSIncCdId	IRS Income code ID (total)
@iRSRecipCdId	IRS Recipient code ID
@isinCd	ISIN
@isoCurrCd	Currency (balance)
@issDt	Issue date (CA Option)
@lcsTxnTyp	LCS transaction type
@lenBorrInd	Loan/Borrow indicator

XML Attribute	Description
@list	Activity states
@lnkRefTyp	Linkage reference type
@lnkTxnIndTyp	Linkage type
@loanTyp	Loan type
@lstDlvDt	Latest delivery date
@lstUpdBusDt	Value date
@lstUpdDt	Last movement
@lstUpdTmstmp	Last statement
@ltstDlvDt	Latest delivery date
@matDt	Maturity Date (CA Option)
@meetPlaceTyp	Meeting place type
@mrktPrclsoCurrCd	Denominated currency
@msgStatusCd	Message status code
@multTaxRateFlg	Multiple tax rate flag
@mveTyp	Movement type
@nomIsoCurrCd	Nominated currency
@offerTypIndCd	Offer type indicator code (CA Detail)
@OnlyTodayValInsFlg	For Value Today
@optFeatTypInd	Optional indicator
@othPartyTyp	Other party type
@partyCapalIndTyp	Party Capacity Indicator type
@payAmntTyp	Total payment amount type
@payUntilDt	Pay Until date
@pctPrcTyp	Percentage type (Cash Movement-Indicative Price)
@pndTradeFlg	Pending trade flag
@ProcStatusCdTyp	Processing status
@putDt	Put date
@qtyTyp	Quantity type
@rateStatus	Rate status (CA Detail)
@rateTyp	Rate type (Security Movement)
@rateTypCd	Rate type code (Security Movement)
@reasonCd	Reason code
@recDt	Record date
@recplsoCurrCd	Exchange rate - into
@RefDtTyp	Date type (CA Option)
@regOvridIndTyp	Registration Override Indicator type
@rencbEntStatusIndTyp	Renounceable status type (Intermediary Security)
@repActvFlg	Report activity flag
@repConsolFlg	Consolidated reporting flag
@repFreq	Reporting frequency
@repMode	Reporting mode

XML Attribute	Description
@repoTypIndTyp	Repo Indicator type
@repTempFlg	Temporary report
@repTyp	Report type
@reqSettleDt	Requested settlement date
@reqSettleDtCdTyp	N/A
@RTGSettleOvridIndTyp	RTGS override indicator type
@scdIsoCurrCd	Second currency code (CA Option)
@secInstrTyp	Instrument type (Security Movement)
@secXferAmntTyp	Amount type
@secXferDirect	Direction of transfer
@secXferTyp	Payment type
@sendRef	Sender's reference
@settlePartyDetlTyp	Settlement party type
@settlePartyNarrTyp	Settlement party narrative type
@settleTxnCondTyp	Settlement transaction condition type
@settleTxnIndTyp	Settlement transaction indicator type
@sfkpngPlaceTyp	Place of safekeeping type (Security Movement)
@sortDt	Sort date
@StandInsFlg	Standing instruction
@statusCd	Status code
@stmntBasisTyp	Statement basis
@stmntTypTyp	Statement type
@storeTmstmp	Store timestamp
@subFctMsg	Sub-function of message
@subRepTyp	Sub-report type
@swiftTxnTypIdCd	SWIFT transaction type
@swiftTyp	SWIFT message type
@systOrigId	Origin
@takOvrTypIndCd	Take-over type code (CA Detail)
@taxActvTypCd	Payment amount type code
@taxBenfTypCd	Beneficial owner type
@taxRate	Tax rate (total)
@tmplId	Template ID
@tmstmp	Report generation timestamp
@tradeTxnCondIndTyp	Trade transaction condition type
@tradeTypCd	Trade type
@txnIndTyp	Transaction indicator type
@valDt	Value date
@versNbr	Version number
@xmlId	XML identifier
AccrInt	Accrued interest



XML Attribute	Description
Acct	Account
AcctAbbr	Account abbreviation
AcctId	Account id
AcctNm	Cash account name
AcctNmAddr	Account name and address
Actv	Activity
Actv.list	Activity states
AggrBal	Fungible aggregate balance
AggrCashMveAmnt	Aggregate cash movement
AggrTaxRate	Aggregate tax rate
AllgmntRep.list	List of all allegation instructions
AltId	Alternative settlement party identifier
AltIdString	Alternative settlement party identifier
AmendDt	Amendment date
Amnt	Settled Amount
AntBal	Anticipated Net
Bal	Booked balance
BalAmnt	Balance
BalSfcpng	Safekeeping
BalString	Balance string
BalVal	Quantity
BalValString	Quantity
BorrCrLinBal	Borrowed Credit Line
CAAddInfo	Corporate Action Additional information
CAAddNarr	Narrative
CAAmntPrc	Price (CA Option)
CACashMve	Corporate Action Cash movement
CACnf	Corporate Action Confirmation
CACnfAggrInfo	Corporate Action Confirmation aggregate information
CACnfInfo	Corporate Action Information
CACnfMsg	Corporate Action Message
CADetl	Corporate Action Detail
CADetlInd	Corporate Action Detail indicator
CADt	Event date (CA Detail)
CADtCd	Event date code (Cash Movement)
CADtDayNbr	Days number (CA Option)
CADtGrp	Corporate Action Date group
CADtString	Days number string (CA Detail)
CAEvtlnd	Corporate Action Event indicator
CAEvtlndString	Corporate Action Event
CAInd	Corporate Action Indicator

XML Attribute	Description
CAMandVoluntInd	Corporate Action Mandatory/Voluntary indicator
CAMandVoluntIndString	Mandatory/Voluntary
CANarr	Narrative (CA Option)
CANotfAggrInfo	Corporate Action Notification aggregate information
CANotfInfo	Corporate Action Notification information
CANotfMsg	Corporate Action Notification message
CAOpt	Corporate Action Option
CAOptCdInd	Corporate Action Option code indicator
CAOptCdIndString	Option
CAOptInd	Corporate Action Option indicator
CAOptNbr	Option number
CAPctPrc	Price (Cash Movement)
CAPer	Corporate Action Period
CAPrcGrp	Corporate Action Price group
CARateGrp	Corporate Action Rate group
CASecMve	Corporate Action Security movement
CashAcct	Cash account
CashBal,section	Cash Balance
CashBal.section	Cash balance
CashInstr	Cash Instrument
CashMveAmnt	Amount
CashMveAmntDetl	Cash Movement Amount detail
CashMvePndAmnt	Pending amount
CashXfer	Cash transfer
CATmstmp	Clearstream Banking Deadline (CA Option)
ClassTypCfi	Financial instrument type
CloseAvailBal	Anticipated net balance
CloseBal	Closing balance
CommissAmnt	Commission amount
ConfBal	Confirmed Fund
ConvTypInd	Conversion Type indicator
ConvTypIndString	Conversion type string
CorpActEvtInd	Corporate action event indicator
CorpActEvtIndString	Corporate action event indicator
CtryCd	Country code
CurrIntDetl	Currency Interest Details
CustdyAddInfo	Custody Additional information
CustdyCd	Custody codes
CustdyDetl	Custody details
CustdyEvt	Custody Event
CustdyNarr	Custody narrative

XML Attribute	Description
CustdyQty	Custody quantity
CustdyRef	Corporate action reference
CustdySecInstr	Custody security instrument
CustdyXferAcct	Custody Transfer account
CustRef	Our reference
CustRepOptSubscr	Custody Report Option subscription
DealAmntPrc	Deal price as amount
DealPctPrc	Deal price as percentage
DenomCurr	Denomination currency
DenomTotHoldVal	Total holding value for currency
DepPlace	Depository Place
DepPlacePlaceNm	Safekeeping Place Name
DfltProcFlg	Default Processing flag
DispoFracInd	Fractions Handling indicator
DispoFracIndString	Fractions Handling (CA Option)
DistTypInd	Distribution Type indicator
DistTypIndString	Distribution type
DivTypInd	Dividend Type indicator
DivTypIndString	Dividend type
DtIntDetl	Date Interest detail
EffSettleAmnt	Settlement cash amount
EffSettleQty	Settled quantity
EntQty	Entitled quantity
EvntTyp	Event Type
ExmptCd	Exemption Code
ExmptCdNm	Exemption code name (total)
FinDt	Financial date
FinInstrAcctDetl	Financial instrument account details
FinInstrCharct	Financial Instrument characteristic
FinInstrQty	Financial instrument quantity (CA Detail)
FinInstrQtyCd	Financial Instrument Quantity code
FinInstrTyp	Financial instrument type
FinRate	Financial instrument rate (CA Option)
FrgnXchgCustdyRef	Foreign exchange custody reference
FrgnXchgDetl	Foreign Exchange detail
FrgnXchgTyp	Foreign Exchange type
FrstRateQty	New to Old Rate (Intermediary Security)
FwdAvailBal	Forward available balance
HeldEncCollBal	Pledged for collateral
HeldEncInsBal	Blocked for instructions
HeldFreeBal	Available

XML Attribute	Description
HoldQty	Holding quantity
HoldVal	Holding Value
IncPay	Income Payment
IncPay.Section	Income Payment section
IndAmntPrc	Indicative Price (CA Option)
IndPctPrc	Price percentage (Cash Movement)
InsDetl	Instruction details
InsDt	Instruction dates
InsInd	Instruction details
IntAmnt	Interest amount
IntermClsgBal	Interim closing balance
IntermDt	Termination date (Intermediary Security)
IntermDtCd	Termination date (Intermediary Security)
IntermDtCdString	Termination date (Intermediary Security)
IntermRate	Intermediary Rate
IntermSec	Intermediary Security
IntermSecInd	Intermediary Security Indicator
IntRate	Interest rate
IntRef	Internal reference
IRSIncCd	IRS Income code
IRSIncCdNm	IRS Income code name (total)
IRSRecipCd	IRS Recipient code
IRSRecipNm	IRS Recipient code name
Lnk	Linkage information
LnkRef	Our reference (ASFR)
LnkTxnInd	Link Tax indicator
LnkTxnIndString	Linkage
LoanClsgDt	Loan closing date
LoanOpngDt	Loan opening date
LoanQty	Loan quantity
LoanRef	Loan reference
MeetPlaceAddr	Meeting place
MoneyStmnt.section	Money statement section
MoneySusp.section	List of pending movements for a currency
MonthIntScaleRepAcct.section	Monthly Interest Scale Report section
MrktAmntPrc	Market Price (Intermediary Security)
MrktPctPrc	Market percentage (CA Detail)
MsgCustAct	Message status
MsgStatus	Message Status
Mve	Movement
Mve.list	Pending movement list

XML Attribute	Description
Narr	Narrative
OfferTypInd	Offer type indicator
OfferTypIndString	Offer type indicator (CA Detail)
OpenBal	Opening balance
OptFeatInd	Optional Features
OptFeatIndString	Optional indicator
OrigMsgAddInfo	Original Message Additional information
OthParty	Other Party
PartyCapalInd	Party Capacity Indicator
PartyCapalIndString	Party Capacity Indicator
PayAmnt	Total payment amount
PayCurr	Payment Currency
PayDetl	Payment Detail
PaySplitDetl	Payment Split Detail
PayStatus	Payment status
Per	Reporting period
PerDtCd	Period code (CA Detail)
PerDtCdEndDtDetl	End Period date detail
PerDtCdEndTmstmpDetl	End Period timestamp detail
PerEnd	End of reporting period
PerEndDt	Period end date (CA Detail)
PerEndTmstmp	Period end timestamp (CA Detail)
PerStart	Start of reporting period
PerStartDt	Period start date (CA Detail)
PerStartDtDtCdDetl	Start Period date detail
PerStartDtEndDtDetl	Start End Period date detail
PerStartTmstmp	Period start timestamp (CA Option)
PerStartTmstmpDtCdDetl	Start Period Timestamp detail
PerStartTmstmpEndTmstmpDetl	Start Period End Timestamp detail
PlaceNarr	Place of safekeeping narrative
PlaceNm	Place of safekeeping name (Intermediary Security)
PndBal	Pending
PrepDt	Preparation date
ProcStatusCd	Processing Status code
ProcStatusCdString	Processing status
Qty	Settled quantity
Rate	Rate
RateCurr	Current rate
RateCurrAmnt	Rate amount (CA Detail)
RateQtyTyp	Rate Quantity type
RateStatus	Rate status (CA Option)

XML Attribute	Description
RateTyp	Rate type
RateTypCurrAmnt	Rate amount type (CA Detail)
Reason	Reason
RegOvridInd	Registration Override Indicator
RegOvridIndString	Registration Override Indicator
RencblEntStatusInd	Renounceable Entitlement Status indicator
RencblEntStatusIndString	Renounceable status (Intermediary Security)
RepoDetl	Repo details
RepoTypInd	Repo Indicator
RepoTypIndString	Repo indicator
RepSubscrNm	Subscription name
ReqSettleAmnt	Requested settlement amount
ReqSettleDt	Expected Settlement Date
ReqSettleDtCd	N/A
ReqSettleDtString	Requested settlement date
ReqSettleQty	Requested settlement quantity
RTGSettleOvridInd	RTGS override indicator
RTGSettleOvridIndString	RTGS override indicator
ScdRateQty	Old to new Rate (Intermediary Security)
SecHold	Fungible securities holding
SecHold.section	Security Holding section
SecIncPay	Security income payment
SecInstr	Security instrument
SecLendCommiss.section	Security Lending commission section
SecLendCommissDetl	Security Lending commission detail
SecNm	Security name
SecTxn.section	Security transaction section
SecXfer	Security transfer
SecXferAmnt	Security transfer amount
SETradeDetl	SE trade details
SETradeInd	SE trade indicators
SettleParty	Settlement party
SettlePartyDetl	Settlement party details
SettlePartyNarr	Settlement party narrative
SettleTxnCond	Settlement transaction condition
SettleTxnCondString	Settlement transaction condition
SettleTxnInd	Settlement transaction indicator
SettleTxnIndString	Settlement transaction indicator
SfkpngAcct	Safekeeping account
SfkpngAcctString	Safekeeping account
SfkpngPlace	Safekeeping Place

XML Attribute	Description
SfkpngPlaceString	Place of safekeeping (CA Option)
Status	Status
StmntBasis	Statement basis
StmntBasisString	Statement basis
StmntNbr	Statement number
StmntTyp	Statement type
StmntTypString	Statement type
SubscrCashInstr	Subscription Cash instruction
SubscrEventTyp	Subscription event
SubSfkpngSecHold.section	Security safekeeping section
SwiftId	BIC
TakOvrTypInd	Take-over Type indicator
TakOvrTypIndString	Take-over type (CA Detail)
TaxActvTyp	Tax Activity Type
TaxBenfOwnNm	Beneficial owner name
TaxBenfTyp	Tax Beneficiary Type
TaxBenfTypNm	Beneficial owner type name
TotAvailCollForFin	Total collateral value
TotBorrVal	Total Borrowed value
TotCollPledgVal	Total collateral pledged
TotCommissAmnt	Total commission amount
TotEntAmnt	Total entitlement amount
TotHoldVal	Total holding value
TotIncPay	Total Income payment
TotIntAmnt	Total interest amount
TotIntNetAmnt	Total net interest amount
TotLentVal	Total lent value
TotPay	Total Payment
TotTaxPayAmnt	Total tax payment amount
TradeDetl	Trade details
TradeDt	Trade date
TradeDtString	Trade date
TradeTmstmp	Trade timestamp
TradeTxnCondInd	Trade transaction condition
TradeTxnCondIndString	Trade transaction condition
TxnInd	Transaction indicator
TxnIndString	Transaction indicator
UncBal	Unconfirmed Fund
UndrlgSec	Underlying security
XchgRate	Exchange rate

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