

CBF Release in May 2016: Advance announcement of changes

Clearstream Banking¹ informs customers in advance regarding some changes that will be implemented on

Monday, 2 May 2016

with the CBF Release, since these changes may lead to system changes for the customers.

We will inform you about further changes that will come into effect as a result of the CBF Release in May 2016 and, if necessary, provide additional details on the changes listed below at a later date.

1. Settlement Services

Changes to Bank-Information

With the CBF Release in May 2016 market "07 Euroclear" will be removed from the "Bank-Information". That means that in future no information on Euroclear Bank participants can be retrieved via "KVAV IA resp. IB".

¹This Announcement is published by Clearstream Banking AG (CBF), registered office at Mergenthalerallee 61, 65760 Eschborn, Germany, registered with the Commercial Register of the District Court in Frankfurt am Main, Germany, under number HRB 7500.

Current

```
1 2 3 4 5 6 7 8
1234567890123456789012345678901234567890123456789012345678901234567890
01 TRAN: KVAV FC: IA SB:
02
03 AUFTRAGSABWICKLUNG BANK-INFORMATION VEROEFFENTLICHUNGEN
04 ALPHA-SUCHE
05 INTERNATIONALE MAERKTE
06 01 CBF GERMANY CBF
07 02 OEKB AUSTRIA OEKB
08 03 EFR ESES FR
09 06 CBL INV CBL AS INVESTOR
10 07 EOC EUROCLEAR
11 11 DTCC USA DTCC
12 16 EFI FINLAND EFI
13 20 VP DENMARK VP
14 25 IBERCLEAR SPAIN IBERCLEAR
15 26 HELEX GREECE HELEX
16 33 ESES FR ESES FR
17 34 ESES NL ESES NL
18 35 ESES BE ESES BE
19
20
21 MARKT: __ (A=AUSLAND) ALPHA VON: _____ BIS: _____
22 -- ID-KZ: -- PW: ----- -- -- --
23 KV0014I Bitte Daten eingeben
24 PF3:Rücksprung PF4:Abbruch PF8:Vor
```

New

```
1 2 3 4 5 6 7 8
1234567890123456789012345678901234567890123456789012345678901234567890
01 TRAN: KVAV FC: IA SB:
02
03 AUFTRAGSABWICKLUNG BANK-INFORMATION VEROEFFENTLICHUNGEN
04 ALPHA-SUCHE
05 INTERNATIONALE MAERKTE
06 01 CBF GERMANY CBF
07 02 OEKB AUSTRIA OEKB
08 03 EFR ESES FR
09 06 CBL INV CBL AS INVESTOR
10 11 DTCC USA DTCC
11 16 EFI FINLAND EFI
12 20 VP DENMARK VP
13 25 IBERCLEAR SPAIN IBERCLEAR
14 26 HELEX GREECE HELEX
15 33 ESES FR ESES FR
16 34 ESES NL ESES NL
17 35 ESES BE ESES BE
18
19
20
21 MARKT: __ (A=AUSLAND) ALPHA VON: _____ BIS: _____
22 -- ID-KZ: -- PW: ----- -- -- --
23 KV0014I Bitte Daten eingeben
24 PF3:Rücksprung PF4:Abbruch PF8:Vor
```

2. Vaults

2.1 KCSL CSV file

To enhance the existing CARAD service, co-issuing banks (EBI) will have the opportunity to request the current CARAD holdings of a single ISIN that they are responsible for additionally as a CSV file. This new CSV file will also include certificate numbers in future.

2.1.1. Selection screen

Current screen

```

      1           2           3           4           5           6           7           8
1234567890123456789012345678901234567890123456789012345678901234567890
01  TRAN: KCSL FC:      SB:
02
03  CARAD      A N F O R D E R U N G E N   L I S T E N   B A T C H
04
05
06  AG  Aktuelle Gesamtliste
07  AE  Aktuelle Einzelliste
08  AK  Aktuelle Kundendepotliste
09
10  EM  Aktuelle Bestandsauswertung emissionsbegleitendes Institut
11
12  AV  Aktuelle Veränderungen Rahmenurkunden
13
14
15  nur CBF:
16
17  NV  Auftragsnummernverzeichnis
18  ST  Urkundensuche
19  US  Stückenummern zur Sammelurkunde
20  LB  Blockpostenliste
21
22  -- ID-KZ: 7907232003 -- PW:          ----- B7907494 -- 13/11/15 -- 10:36:53 --
23  KC0113F Feld muss einen der angezeigten Auswahlcodes enthalten
24  PF3:Rücksprung PF4:Abbruch
```

Future screen

```
1 2 3 4 5 6 7 8
123456789012345678901234567890123456789012345678901234567890
01 TRAN: KCSL FC: AG SB: W#520160#####
02
03 CARAD ANFORDERUNGEN LISTEN BATCH
04
05
06 AG Aktuelle Gesamtliste
07 AE Aktuelle Einzelliste
08 AK Aktuelle Kundendepotliste
09 AC Aktueller CSV-File mit Stückenummern
10
11 EM Aktuelle Bestandsauswertung emissionsbegleitendes Institut
12
13 AV Aktuelle Veränderungen Rahmenurkunden
14
15 nur CBF:
16
17 NV Auftragsnummernverzeichnis
18 ST Urkundensuche
19 US Stückenummern zur Sammelurkunde
20 LB Blockpostenliste
21
22 -- ID-KZ: 7907660002 -- PW: ----- B7999ADB -- 06/11/15 -- 10:10:46 --
23 KC0103I Verarbeitung abgebrochen
24 PF3:Rücksprung PF4:Abbruch
```

```
1 2 3 4 5 6 7 8
123456789012345678901234567890123456789012345678901234567890
01 TRAN: KCSL FC: AC SB:
02
03 CARAD ANFORDERUNGEN CSV-FILE BATCH
04 CSV-File Gesamt aktuell mit Stückenummern
05
06 Tresor-Segm : 1 (1-GS/2-SVT/3-FTB/5-SONST)
07 Bank : _____
08
09 WKN : I _____
10
11
12 HLG-Art : _____
13 Stückeauswahl : I (I)
14 Referenziert : _ (J/N)
15
16
17
18
19 Druck-Datum : TT.MM.JHJJ
20 Ausgabemedium : 04 INTERNET CSV-FILE
21 Empfangs-Abt. : -KVB-
22 -- ID-KZ: 7907660002 -- PW: ----- B7999ADB -- 06/11/15 -- 09:24:30 --
23 KC0027I Bitte mit PF3 bestätigen
24 PF3:Verarbeitung PF4:Abbruch
```

Customers can only request ISINs they are responsible EBI for.

Parameters

| Parameter | Value | Description |
|---------------|---|---|
| Tresor-Segm | 1 GS, 2. SVT, 3 FTB and 5 SONST | Other values are not valid. |
| Bank | Numeric(4,0) | Valid for Vaults segment 2 SVT and 3 FTB only. Will be validated against first 4 digits of the user-id. |
| WKN | B Börsenkürzel C CUSIP-Number F CEDEL-EURO-Number I ISIN W Alphanumeric WKN | Pre-set with "I" followed by a valid security number. ISIN will not be validated. |
| HLG-Art | Numeric(2,0) | Will be validated against chosen Vaults segment. |
| Stückauswahl | I | Pre-set; no modification possible. |
| Referenziert: | J, N | Other values are not valid. |
| Druck-Datum: | Date (TT.MM.JJJJ) | Current date is pre-set, can be modified with a future date. |
| Ausgabemedium | 04 INTERNET CSV-FILE | Pre-set; no modification possible. |
| Empfangs-Abt. | Numeric(2,0) | First 4 digits of user-id will be set (can not be modified). |

Reports can be requested and will be produced intraday.

2.1.2. General format definitions

- The field contents must not contain a semicolon as this is used as a separator for the individual columns.
- The number of separators is identical in each record.
- The field sizes that are indicated are maximum sizes.
- Figures are displayed in the German figure format, which means that a comma is used instead of a decimal point. This character is also transmitted. The fields are defined as numerical fields. This means that in the case of numeric fields, the field that is transmitted is one position longer than stated in the description.
- Figures do not contain any separator for 1000.
- No leading zeros are displayed, but trailing zeros are displayed (after the decimal comma).

Example:

A record consists of three fields, 7-digit numeric with four positions before the comma and three positions after the comma, with the number sequence:

| | | |
|--------|---------|----------|
| 43,000 | 432,001 | 1234,999 |
|--------|---------|----------|

Display in CSV: 43,000;432,001;1234,999

- Narrative fields do not contain any leading or trailing spaces.
- Fields without contents are shown without an inserted space.

Example:

| | | | | |
|------|--|------|-------|-------|
| 1,11 | | 5666 | 87999 | 12154 |
|------|--|------|-------|-------|

Display in CSV: 1,11;;5666;87999;12154

- Certificate numbers are displayed in accordance with ISO standard 4217.
- Sequential certificate numbers within a denomination are grouped into sequence blocks. For certificate numbers “-to” only the positions to be changed are displayed. Certificate numbers 100 to 126 would therefore be displayed as “100-26”.

- Coupons with several certificate numbers are shown in the form of a compound number.

Example:

Certificate numbers 100 to 110 → are displayed as 100/10

- Any existing literals for the certificate number will precede it, for example, SD46-7.

2.1.3. Sort Criteria

Records are sorted by:

- KREF-SOND-KZ-ALPHA (indicator for customer reference)
- KREF-DRITTBK-GIT (customer reference 1st part)
- KREF-DRITTBK (customer reference 2nd part)
- KREF-KUNDE-GIT (customer reference 3rd part)
- KREF-KUNDE (customer reference 4th part)
- ABW.GATTUNGSBEZ.
- HLG
- SAMMEL-NR
- DENOMINATION (Stückelung)
- STK-NR*

Certificate numbers are sorted in arithmetical order. For HLG 30 FTB and REFERENZIERT = “N” certificate numbers are **not** separated by K-Ref.

2.1.4. Format description

The certificates for an ISIN are shown in CSV file format with the following structure:

```
1.Header: Literals of the general data of a csv file
2.Header: General data of a csv file
3.Header: Literals of the issued data of a csv file
1.Data line for the csv file
2.Data line for the csv file
1.Final line for the csv file
```

The various fields within a line are separated by a semicolon.

The **first header line** contains the following literals in the following sequence:

- U1
Identifies this line as the header with literals of the general data.
- EMPFAENGER (customer account)
- DRUCKDATUM (print date)
- DATEIBEZEICHNUNG (file name)
- LFD-NR (counter)
- ISIN (ISIN)

- ALPHA-WKN
- WKN-BEZ (description of the security)
- VAULTS-SEGMENT (Vaults segment value)
- VAULTS-SEGEMENT-TEXT (Vaults segment description)
- BANK (account number)
- HLG (deposit type)
- HLG-TEXT (deposit type description)
- REFERENZIERT (J/N) (customer reference Y/N)

The **second header line** contains the following data in the format described below and in the following sequence:

- U2
Identifies this line as the header with general data.
- Empfänger (customer account)
This is a 4-digits numeric field.
- Druckdatum (print date)
This field has 10 digits and the format, DD.MM.YHYY.
- Dateibezeichnung (file name)
This is a 35-digits alphanumeric field.
- Laufende Nummer der Listanforderung (counter)
This is a 5-digits numeric field.
- ISIN
This is a 12-digits alphanumeric field. It will be filled at the header line only in that case, if the query is restricted to a certain ISIN during entering the request and a description is available. Otherwise this field remains empty
- ALPHA-WKN
This is a 6-digits alphanumeric field. If no Alpha-WKN is available, this field remains empty.
- WKN-Bezeichnung (description of the security)
This is a 35-digits alphanumeric field. If no description is available, this field remains empty.
- Vaults Segment (Vaults segment value)
This is a 3-digit numeric field. If not requested, this field remains empty.
- Vaults Segment Text (Vaults segment description)
This is a 35-digit alphanumeric field. If not requested, this field remains empty.
- BANK-NR
This is a 4-digits numeric field. If not requested, this field remains empty.
- HLG (Deposit Type)
This is a 2-digit numeric field. If not requested, this field remains empty.
- HLG-TEXT (Deposit Type description)
This is a 35-digit alphanumeric field. If not requested, this field remains empty.
- REFERENZIERT (J/N) (Customer Reference Y/N)
This is a 1-digit alphanumeric field. If not requested, this field remains empty.

The **third header line** contains the following literals in the following sequence:

- U3
Identifies this line as a header with literals of the issued data.
- KREF-SOND-KZ-ALPHA (indicator for customer reference)
- KREF-DRITTBK-GIT (customer reference 1st part)
- KREF-DRITTBK (customer reference 2nd part)
- KREF-KUNDE-GIT (customer reference 3rd part)
- KREF-KUNDE (customer reference 4th part)
- ABW.GATTUNGSBEZ. (deviating description of the security)
- ABW.GATTUNGSBEZ.-TEXT (description of deviating description of the security)
- HLG (deposit type)
- HLG-TEXT (description of deposit type)
- SAMMEL-NR (Collective number)
- ORD-NR (Organisation number)
- NOMINALE SAMMEL (Collective nominal)
- RAHMEN-NOMINALE (UpTo nominal)
- NOMINALE-OFFEN (open nominal)
- NOMINALE-DISPOSITIV (allocated nominal)
- STATUS (status of certificate)
- STATUS-TEXT (description of status)
- EINLIEF-GRUND (deposit reason)
- EINLIEF-GRUND-TEXT (description of deposit reason)
- BES-STK (characteristic of certificate)
- BES-STK-TEXT (description of characteristic of certificate)
- NACHWEISART (evidence type)
- NACHWEISART-TEXT (description of evidence type)
- STUECKELUNG (denomination)
- SUMME NOMINALE (totalised nominals)
- ANZAHL URKUNDEN (number of certificates)
- STK-NR1 (Certificate number 1)
- STK-NR2 (Certificate number 2)
- STK-NR3 (Certificate number 3)
- STK-NR4 (Certificate number 4)
- STK-NR5 (Certificate number 5)
- STK-NR6 (Certificate number 6)
- STK-NR7 (Certificate number 7)
- STK-NR8 (Certificate number 8)
- STK-NR9 (Certificate number 9)
- STK-NR10 (Certificate number 10)

The **data lines** contain the following data in the format described below and the following sequence:

| | |
|----|---|
| D1 | Identifies this line as a data line of individual certificates |
| D2 | Identifies this line as a data line of global certificates |
| D3 | Identifies this line as a repeat data line. If a denomination in the case of an individual certificate contains so many certificate numbers that one line is not sufficient to display them all, at least one D3 line is inserted. If a global certificate contains several denominations, at least one D3 line is inserted as from the second denomination, for each further denomination. |

- KREF-SOND-KZ-ALPHA (indicator for customer reference)
This is a 1-digits alphanumeric field. If HLG ≠30, this field remains empty. If HLG = 30 but REFERENZIERT = "N", this field remains empty.
- KREF-DRITTBK-GIT (customer reference 1st part)
This is a 3-digits alphanumeric field. If HLG ≠30, this field remains empty. If HLG = 30 but REFERENZIERT = "N", this field remains empty.
- KREF-DRITTBK (customer reference 2nd part)
This is a 15-digits alphanumeric field. If HLG ≠30, this field remains empty. If HLG = 30 but REFERENZIERT = "N", this field remains empty.
- KREF-KUNDE-GIT (customer reference 3rd part)
This is a 3-digits alphanumeric field. If HLG ≠30, this field remains empty. If HLG = 30 but REFERENZIERT = "N", this field remains empty.
- KREF-KUNDE (customer reference 4th part)
This is a 15-digits alphanumeric field. If HLG ≠30, this field remains empty. If HLG = 30 but REFERENZIERT = "N", this field remains empty.
- ABW.GATTUNGSBEZ. (deviating description of the security)
This is a 3-digits numeric field. If no value is available, this field remains empty.
- ABW.GATTUNGSBEZ.-TEXT (description of deviating description of the security)
This is a 35-digits alphanumeric field. If no description is available, this field remains empty.
- Hinterlegungsart (Deposit type)
This is a 2-digits alphanumeric field. If not requested, this field remains empty.
- Hinterlegungsart Text (description of deposit type)
This is a 35-digits alphanumeric field. If no description is available, this field remains empty.
- Sammelnummer (collective number)
This is a 6-digits numeric field. If a certificate has no collective number, this field remains empty.
- Ordnungsnummer (organisation number)
This is a 6-digits numeric field. If a certificate has no organisation number, this field remains empty.
- Nominale der Sammelurkunde (nominal of the global certificate)
This is a 18-digit numeric field with 15 positions before the decimal point and three positions after the decimal point. The field remains empty in the case of individual certificates.
- Rahmennominale (UpTo-nominal)
This is a 18-digit numeric field with 15 positions before the decimal point and three positions after the decimal point. The field remains empty if the certificate is not an UpTo-certificates.
- Nominale Offen (open nominal)

This is a 18-digit numeric field with 15 positions before the decimal point and three positions after the decimal point. The field is filled with SPACE, if the certificate is not an UpTo-certificates.

- Dispositive Nominale (allocated nominal)

This is a 18-digit numeric field with 15 positions before the decimal point and three positions after the decimal point. The field is filled with SPACE, if the certificate is not an UpTo-certificates.

- Status der Sammelurkunde (status of the global certificate)

This is a 3-digits numeric field. The field is filled with SPACE, if the certificate is not an UpTo-certificates.

- Status-Text der Sammelurkunde (description of status)

This is a 35-digits alphanumeric field. The field is filled with SPACE, if the certificate is not a global certificate or a description is not available.

- Einlief-Grund (reason for deposit)

This is a 2-digits numeric field. The field is filled with SPACE, if the certificate is not a global certificates.

- Einlief-Grund-Text (description of reason for deposit)

This is a 20-digits alphanumeric field. The field is filled with SPACE, if a description is not available.

- BES-STK (characteristic of certificate)

This is a 3-digits numeric field. The field is filled with SPACE, if a characteristic is not available.

- BES-STK-TEXT (description of characteristic of certificate)

This is a 20-digits alphanumeric field. The field is filled with SPACE, if a description is not available.

- NACHWEISART (evidence type)

This is a 3-digits numeric field. The field is filled with SPACE, if a characteristic is not available.

- NACHWEISART-TEXT (description of evidence type)

This is a 20-digits alphanumeric field. The field is filled with SPACE, if a description is not available.

- Stückelung (denomination)

This is a 15-digit numeric field with 12 positions before the decimal point and three positions after the decimal point. It contains the denomination of the individual certificates. The field remains empty in the case of global certificates.

- Summe Nominale (totalised nominals per denomination)

This is a 18-digit numeric field with 15 positions before the decimal point and three positions after the decimal point. The field remains empty in the case of global certificates.

- Anzahl Urkunden (number of certificates per denomination)

This is a 9-digits numeric field. The field remains empty in the case of global certificates.

- STK-NR1 (certificate number 1)

This is a 40-digit alphanumeric field. It contains a single certificate number, a sequence block or a compound number. If there is no certificate number, the field remains empty.

- STK-NR2 (certificate number 2)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR3 (certificate number 3)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR4 (certificate number 4)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR5 (certificate number 5)

This field contains a sequence block of certificate numbers. If there is no certificate number the field remains empty.

- STK-NR6 (certificate number 6)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR7 (certificate number 7)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR8 (certificate number 8)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR9 (certificate number 9)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

- STK-NR10 (certificate number 10)

This field contains a sequence block of certificate numbers. If there is no certificate number, the field remains empty.

The “Sammel Nominale” and “Anzahl Urkunden” include the sum of the certificate numbers of individual certificates out of working-, bloc- and ice bloc stock holdings within one deposit type and denomination. Certificates with stop order, lack or replacement are included, but not indicated.

The **final line** serves to show that the end of the file has been reached and that no further data lines will follow.

- E

Identifies this line as the final line. It only contains separators.

3. Asset Services

3.1 Settlement of Fractions in cash

For event type 134 – “Cash compensation at repayment/redemption” with the launch of the release on 2 May 2016 the cash amount per nominal for non-delivered shares will be reported separately in the SWIFT messages MT564 and MT566. The cash compensation for non-delivered shares is equal to the redemption price in case of redemption of securities pursuant to recital 106 of the Letter of the Ministry of Finance of 9 October 2012. For redemption of securities pursuant to recital 107 the cash compensation consists of two components: A cash amount for settlement of fractions of non-delivered shares and a cash payment stipulated in the offering terms. Both components are submitted to different tax treatments. With the separate reporting of the cash amount for settlement of fractions it is possible to differentiate both components.

MT564/MT566

The cash amount for settlement of fractions is reported in sequence E of the MT564 and in sequence D of the MT566 under qualifier CINL – “cash in lieu”:

:90A: :CINL//PRCT/ bzw. :90B: :CINL//ACTU/

The amount for settlement of fractions is taken from field ‘SPITZNAUSGL.RZ.107’ of the WSS WM redemption data, if the field is filled. In this case the repayment complies with the ruling of recital 107, that is, the cash redemption has two components and the settlement of fractions is shown in this field. If the field is not filled, the redemption is assumed to be compliant to recital 106 and the redemption price is reported as “cash in lieu”.

Online Reporting KVG1

The amount of the cash compensation for settlement of fractions for non-delivered shares is shown for event type 134 with the new field “SP.AUS.107” (WSS 3270) respectively “COMP.107” (CASCADE-PC), if the redemption is compliant to recital 107 of the Letter of the Ministry of Finance of 9 October 2012. If the cash compensations consists only of one component (redemption compliant to recital 106), the field is empty.

4. Xemac

In line with the stepwise implementation of measures for T2S the following changes will be implemented in Xemac as part of the CBF release:

- The distribution timing of the Xemac Collateral and Exposure Statement (Summary and Detailed) Reports in format MT569 at end of day will be changed from approx. 19:15 or 19:30 to 18:15.
- Some Xemac report definitions will be disabled. All reports impacted are available as tabular views from where they can be printed/saved in the Xemac client.

5. Preparatory measures for TARGET2-Securities (T2S) Wave 4

The implementation plan published by CBF for the implementation of measures for T2S explains that CBF applications are being adapted in stages. Since November 2013, CBF has been providing functionality required for T2S in each release, the aim being to prepare customers for the changes in good time. In particular, the following changes in this Release due to T2S provide measures that reduce the migration workload associated with implementing Wave 4 (February 2017).

5.1 Changes to CASCADE reports

5.1.1. List of instructions that will be deleted after 40 days

The list of instructions that will be deleted after 40 days will be renamed to „VON CBF/T2S WEGEN FRISTABLAUF ZUR LOESCHUNG MARKIERTE AUFTRAEGE“ with this Release.

5.1.2. Avis aus WP-Übertrag

With the previous Releases, CBF has already adapted a number of Settlement Reports to the future processing with T2S. With the Release on 2 May 2016, we will additionally adapt the processing of the "Avis" to be compliant with T2S. Today, CBF sends the "Avis" at 06:15 (job number JQ200534), after 1. SDS-Batch (job number JQ200724), after 2. SDS-Batch (job number JQ200774) and at 18:15 (job number JQ200800). In future, it will only be sent once at end of day with job number JQ200800 – expected at around 18:15.

Customers who automatically process our "Avis" are requested to adapt their systems and inform their datacentre about the new process accordingly.