clearstream | DEUTSCHE BÖRSE GROUP

# Clearstream Banking Release July 2012

## Release Information

# CBL Release July 2012 - Release Information

21 June 2012

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# Foreword

In this Release information, Clearstream Banking[1] presents enhancements and developments that are planned for implementation on 2 July 2012.

The document contains key information about the content of the release, which covers the following areas, products and services:

- Custody Services and Connectivity;
- Investment Funds Services.

The aim of the document is to provide customers with the operational details required to extract the full benefits from the new and enhanced services and integrate these fully into their operational processes, as appropriate.

The summary of changes related to SWIFT message standards were published, together with quality enhancements, in Announcement A12015, dated 19 January 2012 and in the Creation via SWIFT User Guide pre-issue, dated 7 March 2012.

Changes related to the increase of the number of decimal digits for unit quantities of investment fund shares were published in CBL Announcement A12040, dated 24 February 2012.

The respective documentation and guides associated with the impacted products and/or services will be updated to reflect the enhancements in due course.

**Note:** In some cases, this document will not contain the details of enhancements where a separate announcement has been published to address the needs of a particular product or service.

# Further information

The Pre-Issue edition of the Creation via SWIFT User Guide is available at www.clearstream.com, under Information Centre / Connectivity / Creation via SWIFT Reference.

For further information about our products and services, please visit www.clearstream.com or contact Clearstream Banking Customer Service or your Relationship Officer.

You will find the relevant contact details at www.clearstream.com, under Customer Support / Contacts.

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1. Clearstream Banking refers to Clearstream Banking, société anonyme, registered office at 42, avenue John F. Kennedy, L-1855 Luxembourg, and registered with the Luxembourg Register of Commerce and Companies under number B-9248 (CBL).

# Release Information

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# 1.    Executive summary

Effective Monday, 2 July 2012, as part of Clearstream Banking's ongoing commitment to the timeliness and quality of our services to customers, CBL will implement quality enhancements to our existing services. The services impacted and a summary of the enhancements can be found below.

## Custody Services and Connectivity

Major enhancements will be made to our Coporate Action Notifications, Certification Requests and the Income Pre-Advice Report (IPAR). The enhancements made will apply to the MT564 and will offer a more detailed and granular reporting. Changes will be offered through all existing connectivity channels.

## Investment Funds Services

Clearstream Banking will increase the maximum number of decimal digits for unit quantities of investment fund shares from four (4) to six (6).This enhancement will apply across all services, including investment fund orders, securities settlement transactions, securities statements and custody services statements.

# 2. Custody Services and Connectivity

## Corporate Action Notification

The following enhancements[1] will be made to the Income Pre-Advice Report (IPAR), Corporate Action Notifications and Certification Requests via all connectivity media[2]:

- The Entitled Quantity (:36B::ENTL//) will be reported for redemptions in shares, warrants, dividend reinvestment and dividend option (added to IPAR).

- Securities movements (SECMOVE) that could be part of the flow of an event, for example Redemptions in Shares or Warrants (that pay in cash and/or cash and securities) will be reported (added to IPAR). Warrants that only pay in securities will not be reported.

- Options with different payment dates that have already been paid (confirmed by MT566) will be shown as inactive in the IPAR (:22F::OSTA//INTV). Only unconfirmed Options will remain active.

- For Redemptions in Shares and Warrants with CAMV//MAND, the IPAR will only be sent if the default option has been defined.

- Reporting of drawings (event DRAW) will be improved; in addition to the Eligible Balance, the Balance affected by the drawing will be reported (:93B::AFFB) as well as the remaining unaffected balance (:93B::UNAF).

- The reporting of interest payments will be improved to display the current pool factor if applicable (if other than 1). CBL will send the pool factor using field :92A::PRFC// (Previous Factor) instead of field :92A::NWFC// (Next factor).

- Pending balances will be reported using a new format (:93C::PEND//ELIG, :93C::PEND//NELG, :93C::PENR//ELIG, :93C::PENR//NELG) to more clearly distinguish eligible and non-eligible pending balances.

To determine the final balance on record date, the new eligible balance (ELIG) reported pre-record date should be read in conjunction with the PEND//ELIG and PENR//ELIG to obtain the forecast of the final balance on record date.

As from the record date, the balances reported in fields :93C::PEND//ELIG and :93C::PENR//ELIG may, depending on the underlying settlement transaction type (internal, Bridge, domestic), be subject to automatic compensations or claims to/from counterparties.

**Note:** In order to ensure that the pending balances are included in the IPAR, users of CreationOnline should tick the "Pending Trades" box when defining their IPAR scheduled report parameters.

In addition to the above changes, the balances calculation between Corporate Action Notifications, Certifications, IPARs and Missing Instructions Alerts will be harmonised. As a consequence, additional IPAR messages might be generated in the first run on 2 July 2012.

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1. Pre-advised in CBL Announcement A12015, dated 19 January 2012.
2. Creation via SWIFT, CreationOnline, CreationDirect via Internet, CreationDirect via VPN, CreationDirect via SWIFTNet, CreationDirect via LiMA.

If relevant to the event type reported, the following fields will be added:

**Sequence B1 – Financial Instrument Attributes**

| SWIFT Tag | Description | CAEV | CAMV |
|---|---|---|---|
| :92A::PRFC | Previous Factor | INTR | MAND |

**Sequence B2 – Account Information**

| SWIFT Tag | Description | CAEV | CAMV |
|---|---|---|---|
| :93B::AFFB | Affected Balance | DRAW | |
| :93B::UNAF | Unaffected Balance | DRAW | |
| :93C::PEND//ELIG | Pending Delivery Balance Eligible | | |
| :93C::PEND//NELG | Pending Delivery Balance Not Eligible | | |
| :93C::PENR//ELIG | Pending Receipt Balance Eligible | | |
| :93C::PENR//NELG | Pending Receipt Balance Not Eligible | | |

**Sequence D – Corporate Action Details**

| SWIFT Tag | Description | CAEV | CAMV |
|---|---|---|---|
| :98C::ETPD | Early Third Party Deadline | DVCA | CHOS |
| :98C::TPDT | Third Party Deadline | DVOP | CHOS |
| | | DRIP | CHOS |
| | | EXWA | MAND |
| | | EXWA | CHOS |

**Note:** Fields :98C::TAXB Tax Certification Deadline and :17B::CERT Certification Y/N will not be included in the IPAR message as previously indicated.

**Sequence E – Corporate Action Options**

| SWIFT Tag | Description | CAEV | CAMV |
|---|---|---|---|
| :22F::OSTA//INTV [1] | Option Status Inactive | | |
| :98C::EARD | Early Deadline | DVOP | CHOS |
| | | DRIP | CHOS |
| :98C::RDDT [1] | Clearstream Banking Deadline | DVCA | CHOS |
| :98C::MKDT [1] | | REDM | MAND |
| | | DVOP | CHOS |
| | | DRIP | CHOS |
| | | EXWA | MAND |
| | | EXWA | CHOS |

**Subsequence E1 – Securities Movement**

| SWIFT Tag | Description | CAEV | CAMV |
|---|---|---|---|
| :36B::ENTL [1] | Entitled Quantity | REDM | MAND |
| | | DVOP | CHOS |
| | | DRIP | CHOS |
| | | EXWA | MAND |
| | | EXWA | CHOS |
| :22H::CRDB//CRED [1] | Credit/Debit Indicator | REDM | MAND |
| | Credit | DVOP | CHOS |
| | | DRIP | CHOS |
| | | EXWA | MAND |
| | | EXWA | CHOS |

1. Applicable to IPAR only.

# Release Information

## Corporate Action Notifications

For Corporate Action Notifications, customers are reminded of the following rules:

- New corporate action (CA) option numbers will be reported if the currency in a CA option or the ISIN of the security proceeds is changed in a CA option. This will make it easier to distinguish between old and new options.

- For a large number of event types, CBL has added the early deadline in structured fields in order to reduce the usage of the :70E://ADTX field.

- Where applicable, several cash options will be reported in structured fields in order to reduce the usage of narrative.

- With regard to event type rights distribution (RHDI), more than one right can be reported within one option using structured fields, reducing the usage of narrative. In this particular case, the corresponding two rights exercise events (EXRI) will be linked to the one right distribution event (RHDI).

- For event type DVOP CHOS (French market), the dividend amount is removed from the CASHMOVE sequence in CA option SECU. The dividend amount is reported in the CA option CASH.

## Changes to CreationOnline

In addition to all the new fields added, the following enhancements will be implemented in CreationOnline, Custody, IPAR Queries, list and detail views:

- The IPAR Query on date selection "Payment Date from/to" will now check the Payment date in both Cash Movements and Securities Movements; (previously, only results for cash movements were returned).

- The columns of the IPAR list view will be rearranged and renamed to optimise field grouping:
  - Execution date is removed.
  - A new column for "Gross Tax Free" is added.
  - The former column "CCY" for Currency is removed and will be replaced by two columns:
    - "Denom CCY" for the denomination currency of the issue the other for "PAYT CCY" indicating the payment currency after any foreign exchange.
    - "Gross Amount" is renamed to "Gross Taxable".

- The column Earliest Payment Date will show the earliest payment date of Cash and Securities movements.

### Customer benefits

Customers will benefit from increased quality through more granular reports and refined user management. These quality enhancements are delivered through all connectivity media.

### Cutover

Customers do not need to take any action. The enhanced reports will be generated automatically for all customers from 2 July 2012.

### Details

The new IPAR list view will look like the following (here presented in two halves):

| IPAR Queries | Query | INTR AUD 6,25 TELSTR | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|

Action  View  List  Help  ◄ ►                                                                                    1-50 of

| Safekeeping Account | Cash Account | ISIN Code | Common Code | Common Code Type | Place of Safekeeping | Instrument Type | Corporate Action Ref. | Version | Payment | Cash CR/DB | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 00800 | 00800 | ES0314019003 | 013800758 | S | IBRCESMMXXX | Bond | AC0000008 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | ES0314019003 | 013800758 | S | IBRCESMMXXX | Bond | 0000000097646546 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | CH0100869582 | 042267937 | S | INSECHZZXXX | Bond | 0000000085408334 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | CH0100869582 | 042267937 | S | INSECHZZXXX | Bond | 0000000085580812 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | CH0102853964 | 045477355 | S | INSECHZZXXX | Bond | 0000000097572742 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | IT0003684088 | 019519830 | S | MOTIITMMXXX | Bond | 0000000097649958 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | IT0003684088 | 019519830 | S | MOTIITMMXXX | Bond | 0000000097650461 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | IT0004083025 | 025951956 | S | MOTIITMMXXX | Bond | 0000000097658351 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | BE0002167337 | 041822171 | S | NBBEBEBBXXX | Bond | 0000000085408315 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | AT000B002423 | 040942793 | S | OEKOATWWXXX | Bond | 0000000097660838 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010405688 | 027748902 | S | SICVFRPPXXX | Bond | 0000000097655795 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010459388 | 029569380 | S | SICVFRPPXXX | Bond | 0000000085407250 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010459388 | 029569380 | S | SICVFRPPXXX | Bond | 0000000085579927 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010521559 | 032397158 | S | SICVFRPPXXX | Bond | 0000000097658998 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010599209 | 035697748 | S | SICVFRPPXXX | Bond | 0000000097660683 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010746008 | 042268046 | S | SICVFRPPXXX | Bond | 0000000085352971 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010746016 | 042272256 | S | SICVFRPPXXX | Bond | 0000000085352963 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010780494 | 043984241 | S | SICVFRPPXXX | Bond | 0000000097661978 | 2 of 2 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010780643 | 043985850 | S | SICVFRPPXXX | Bond | 0000000097662031 | 1 of 1 | Unconfirmed | Credit | |
| 00800 | 00800 | FR0010885376 | 050183360 | S | SICVFRPPXXX | Bond | 0000000085408714 | 1 of 1 | Unconfirmed | Credit | |

| IPAR Queries | Query | INTR AUD 6,25 TELSTR | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Action  View  List  Help  ◄ ►                                                                                    1-50 of 1,000  15:52 CEST

| Taxable | Tax Rate | Gross Tax Free | Net Amount | Denom. CCY | Entitled Amount | Payt. CCY | Event Type | Record Date | EX Date | Earliest Payment Date | Value Date | Fixing Date | Interest Rate | Timestamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0.00 | EUR | 0.00 | EUR | PCAL | | | 16/04/12 | 16/04/12 | | | 09/04/12 02:32 |
| 3,625.36 | 21 | | 2,864.03 | EUR | 2,864.03 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 0.380431 | 09/04/12 02:32 |
| | 0 | 1,312.50 | 1,312.50 | CHF | 1,312.50 | CHF | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 2.625 | 09/04/12 02:33 |
| | | 50,000.00 | 50,000.00 | CHF | 50,000.00 | CHF | REDM | | | 16/04/12 | 16/04/12 | | | 09/04/12 02:33 |
| | 0 | 3,696.87 | 3,696.87 | EUR | 3,696.87 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 0.6319444 | 09/04/12 02:32 |
| | | | 0.00 | EUR | 0.00 | EUR | PRED | 13/04/12 | | 16/04/12 | 16/04/12 | | | 09/04/12 02:33 |
| | 0 | 99.86 | 99.86 | EUR | 99.86 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 0.02219184 | 09/04/12 02:32 |
| | | | 0.00 | EUR | 0.00 | EUR | PRED | 13/04/12 | | 16/04/12 | 16/04/12 | | | 09/04/12 02:33 |
| | 0 | 67,500.00 | 67,500.00 | EUR | 67,500.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 6.75 | 09/04/12 02:32 |
| | 0 | 34.05 | 34.05 | EUR | 34.05 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 0.5674861 | 09/04/12 02:32 |
| | 0 | 16,430.00 | 16,430.00 | USD | 16,430.00 | USD | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 0.205375 | 09/04/12 02:32 |
| | 0 | 227,250.00 | 227,250.00 | EUR | 227,250.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 4.5 | 09/04/12 02:32 |
| | | 5,050,000.00 | 5,050,000.00 | EUR | 5,050,000.00 | EUR | REDM | | | 16/04/12 | 16/04/12 | | | 09/04/12 02:32 |
| | 0 | 47.00 | 47.00 | EUR | 47.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 1.175 | 09/04/12 02:32 |
| | 0 | 72.50 | 72.50 | EUR | 72.50 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 1.45 | 09/04/12 02:32 |
| | 0 | 3,000.00 | 3,000.00 | EUR | 3,000.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 6 | 09/04/12 02:33 |
| | 0 | 239,875.00 | 239,875.00 | EUR | 239,875.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 4.75 | 09/04/12 02:32 |
| | 0 | | 0.00 | EUR | 0.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | 12/01/12 | UKWN | 17/04/12 15:56 |
| | 0 | | 0.00 | GBP | 0.00 | GBP | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | UKWN | 09/04/12 02:32 |
| | 0 | 16,875.00 | 16,875.00 | EUR | 16,875.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | 3.375 | 09/04/12 02:32 |
| | 0 | | 0.00 | EUR | 0.00 | EUR | INTR | 13/04/12 | | 16/04/12 | 16/04/12 | | UKWN | 09/04/12 02:32 |

The "Option Status" in the IPAR via CreationOnline will now indicate when an option has already been paid.

In addition, for Corporate Action Notifications, a response via the CreationOnline interface or CSV file upload will not be permitted on inactive options.

New balance types will appear in the CreationOnline IPAR detail view as follows:

- Affected Balance: Quantity of securities that have been affected by the process run through the event (Drawing events only).

- Unaffected Balance: Quantity of securities that have not been affected by the process run through the event (Drawing events only).

- Pending Delivery Eligible: Balance of securities eligible for this event that are pending delivery.

- Pending Delivery Not Eligible: Balance of securities not eligible for this event that are pending delivery.

- Pending Receipt Eligible: Balance of securities eligible for this event that are pending receipt.

- Pending Receipt Not Eligible: Balance of securities not eligible for this event that are pending receipt.

The following example of the IPAR detail view (presented in two pieces) illustrates the use of several of the new balance types and includes both cash and securities movements.

# Release Information

## General Information

| | |
|---|---|
| Corporate Action Reference | 0000000800000008 - Version 3 of 3 |
| Payment Status | Unconfirmed |
| Safekeeping Account | 00800 - BANK AG |
| Event Type | DRAW - Partial Redemption by Drawing |
| Mandatory / Voluntary | Mandatory |
| Notification Timestamp | 10/05/12 12:51 |

## Underlying Financial Instrument

| | |
|---|---|
| ISIN Code | GR0124024580 |
| Common Code | 018386950 - Single |
| Description | EUR 4,50 HELLENIC REPUBLIC 04-2014 |
| Place of Safekeeping | BNGRBWAAXXX - BANK OF GREECE ATHENS |
| Type | Bond |
| Attributes | |
| Method of Interest Computation | A011 - 30/360 (ICMA or Basic Rule) |

## Balances

| | | |
|---|---|---|
| Balance As Of | 06/03/12 09:03 | |
| PendingDeliveryEligible | FAMT | 50,000 |
| PendingDeliveryNotEligible | FAMT | 60,000 |
| Settlement Position | FAMT | 2,477,000 |
| PendingReceiptEligible | FAMT | 150,000 |
| PendingReceiptNotEligible | FAMT | 471,000 |
| Eligible | FAMT | 2,477,000 |

## Details

| | | |
|---|---|---|
| Announcement Date | 01/02/12 | |
| Lottery Date | 01/02/12 | |
| Annual Interest Rate | | 4 |
| Interest Period | 01/03/12 - 30/03/12 | |
| Number of Days Accrued | 29 | |
| Additional Business Process Indicator | Preliminary Advice of Payment | |

## Option 001 CASH - Cash

| | |
|---|---|
| Default Processing Flag | Yes |
| Currency | USD |

### Security Movement

| | | |
|---|---|---|
| Credit / Debit | Debit | |
| ISIN Code | GR0124024580 | |
| Common Code | 018386950 - Single | |
| Description | EUR 4,50 HELLENIC REPUBLIC 04-2014 | |
| Place of Safekeeping | BNGRBWAAXXX - BANK OF GREECE ATHENS | |
| Type | Bond | |
| Payment Date | 07/03/12 | |
| Quantity of Financial Instrument Entitled | FAMT | 2,477,000 |

### Cash Movement

| | | |
|---|---|---|
| Credit / Debit | Credit | |
| Cash Account | 80800 - BANK AG | |
| Value Date | 07/03/12 | |
| Payment Date | 07/03/12 | |
| Earliest Payment Date | 07/03/12 | |
| Contractual Payment Indicator | Upon Receipt of Funds | |
| Charges/Fees Amount | EUR | 9,908 |
| Interest Amount | EUR | 7,850.6 |

| BS_P1736_SYTE_01_ST_pz416 | Clearstream Banking - CreationOnline | 16:26 CEST |
|---|---|---|

| | | |
|---|---|---|
| FX Conversion Resulting Amount | USD | 369,492.6 |
| Entitled Amount | USD | 369,492.6 |
| Net Amount | EUR | 369,492.6 |
| Principal or Corpus | EUR | 371,550 |
| Tax Free Amount | EUR | 379,400.6 |
| Charges/Fees Rate | EUR | 0.004 |
| Exchange Rate | EUR - USD | 1 |
| Withholding Tax Rate | | 0 |
| Interest Rate Used for Payment | | 0.3169398 |
| Cash Price Received per Product | Percentage | 15 |

**Narratives**

**Additional Text**

PAYMENT UPON RECEIPT OF FUNDS

**Action History**

| Version | Timestamp | Action | From | To | Executed by |
|---|---|---|---|---|---|
| 3 | 10/05/12 12:51 | Received | | | SYSTEM |
| 2 | 10/05/12 12:51 | Replaced | | | SYSTEM |
| 2 | 10/05/12 12:31 | Received | | | SYSTEM |
| 1 | 10/05/12 12:31 | Replaced | | | SYSTEM |
| 1 | 08/05/12 12:12 | Received | | | SYSTEM |

| 10/05/12 | Page 2/2 |
|---|---|

## New Connectivity Security features

### New Optional PIN authentication

New 4-digit PIN codes may be used as an additional (optional) authentication factor.

The PIN code feature can be requested at the customer's Organisation Unit (OU) level. The feature is optional and each customer decides whether they want to use it or not.

Customers who want to use the feature must send an official request to CBL (via Customer Service or their Relationship Officer).

Once the feature is implemented, all CreationOnline users of the customer OU will need to regenerate their credentials. During the credentials generation process, the system will additionally request each user to set up a personal secret PIN code of four digits.

Once done, the PIN code will be requested by the system at each instruction release action and at the user's logon.

The PIN codes entered by users (which must conform to certain criteria) will be controlled by CBL's application server and, in case of three successive failed attempts, the user will be suspended. Once suspended, only an Administrator will be able to reactivate the user.

### Optional removal of "Authorise own" permission for all users of an OU

Customers may decide as an additional security measure to remove the "Authorise own" feature for all its users, regardless of role. If this feature is selected, the "Verify own" and "Release own" permissions will no longer be accessible for all users of the OU (including administrators and supervisors).

Customers who want to use the feature must send an official request to CBL (via Customer Service or their Relationship Officer).

# Release Information

## Modified Display in User Management – User permissions

The display of CreationOnline user permissions has been modified. The "Authorise Own" permissions, which only a Supervisor can have, are now displayed in a separate category to highlight which CreationOnline users may authorise their own actions. There are no functional changes to the associated permissions for users to release and verify their own instructions (Securities, Cash, Triparty collateral and Custody instructions; Free format messages; User Management and Report Scheduling).
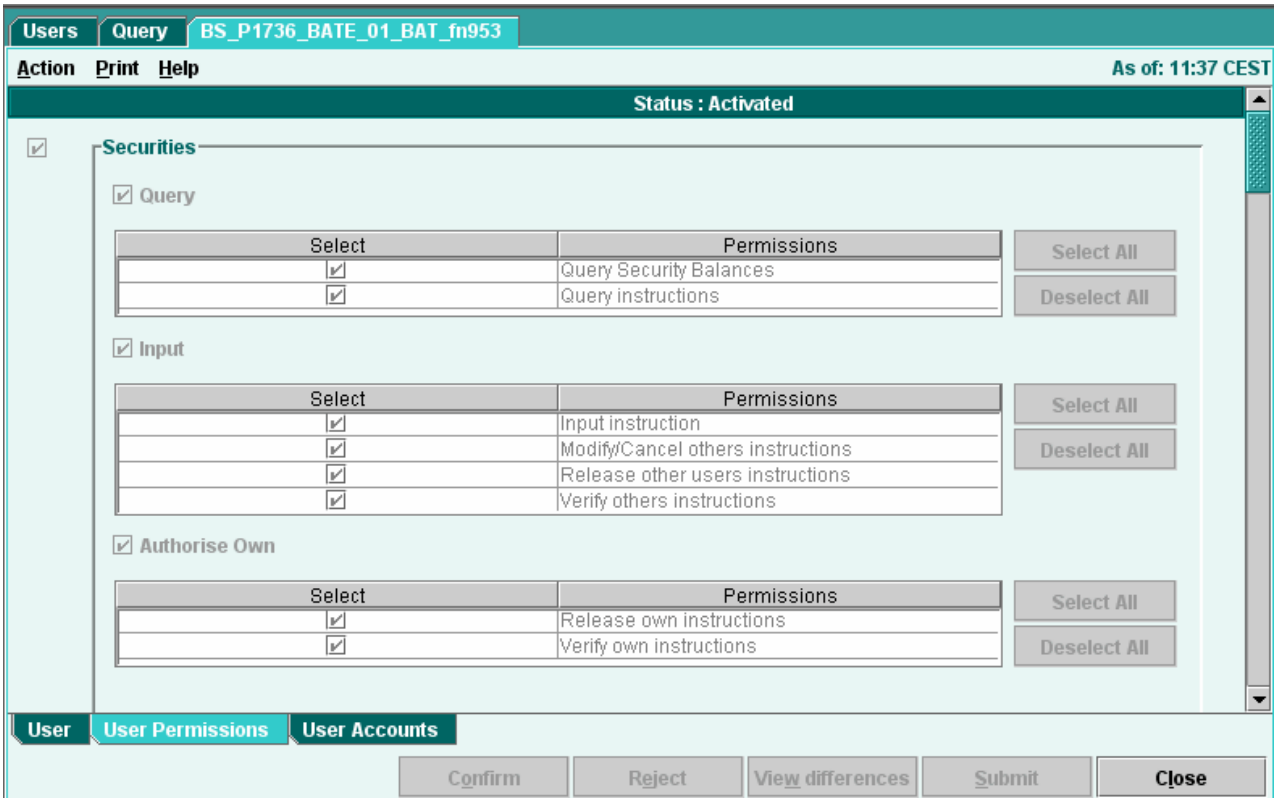


## Validation of the Certificate for establishing an HTTPS URL connection to CreationOnline by VeriSign™

As part of the installation procedure, each CreationOnline user is currently requested to manually download and import the Clearstream Root CA Certificate into their browsers (as Trusted Root Certification Authority), to guarantee that the HTTPS connection used to access CreationOnline can be trusted by the browser.

We have simplified the CreationOnline installation process, and this procedure will no longer be necessary, as https://www.creationconnect.com is now certified by an external Trusted Certificate Authority.

When accessing CreationOnline, this is directly visible in the browser as the URL www.creationconnect.com displayed in green and showing the secure padlock to indicate that the connection is secure.

For more information on the use of these security features, customers should contact their Customer Service Officer.

# 3. Investment Funds Services

Clearstream Banking will increase the maximum number of decimal digits for unit quantities of investment fund shares from four (4) to six (6).

This enhancement will apply across all services, including investment fund orders, securities settlement transactions, securities statements, custody statements and CreationOnline.

**Note:** The maximum number of significant digits (integers plus decimals) for expressing quantities in transactions will remain unchanged at 13.

The number of decimals for each share class (ISIN) is defined in CBL's investment funds reference data and published in the Information Centre on the Clearstream website in the following locations:

- Investment Funds Services / ICSD / Supported Funds / Fund List;
- Market Reference / ICSD / Reference Data / Securities / Fractional shares.

Customers subscribing to Vestima$^{DATA}$ will receive automated updates via daily file transfers. Changes to the number of decimals supported for individual share classes are included in the Vestima$^{DATA}$ fund delta report. For information, please see the Vestima$^{DATA}$ product pages.

## Customer benefits

CBL customers will receive improved trading, settlement and asset servicing; for example, in the execution of cash amount orders in fund shares that have high value pricing. This enhancement will allow for further increases to the number of investment fund shares accepted by CBL, which is already at an industry leading position of 95,000 share classes today.

## Cutover

The number of decimals for each share class (ISIN) will be updated as and when required by the fund prospectus and the relevant fund-side agents.

# 4. UK government debt and "bulldog" securities

CBL will enable customers to settle and hold UK government debt and foreign sterling denominated ("bulldog") instruments with a maximum number of two decimal digits. This enhancement will apply across all services, including securities settlement transactions, securities statements and asset services statements.

## Customer benefits

CBL customers will benefit from additional flexibility in settlement and asset services.

# Release Information

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