# Welcome to Clearstream's Information Session

Implementation of AMI-SeCo SCoRE and ECB's ECMS

Corporate Actions 24<sup>th</sup> May 2023

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#### Agenda

- 1 Background
- 2 Revised project planning
- 3 Functional specifications Corporate Actions
- 4 Client readiness activities
- 5 Q&A

Revisions since the client information session held on 24/05 indicated in yellow.

# Background

# **SCoRE and ECMS**

#### Introduction

- What is SCoRE and why do we need it?
  - The Advisory Group on Market Infrastructure for Securities and Collateral (AMI-SeCo) set up the Harmonisation Subgroup (HSG) as part of the Eurosystem Single Market in Europe mandate, to foster harmonisation and integrated financial market infrastructures within the EU
  - The HSG established the Collateral Management Harmonisation Task Force (CMH-TF) to produce the Single Collateral Management Rulebook for Europe (SCoRE), initially focussing on 3 of 10 identified collateral management harmonisation areas<sup>\*</sup>: Triparty Collateral Management, Corporate Actions and Billing SCoRE Standards can be found here: <u>https://www.ecb.europa.eu/paym//intro/publications/html/index.en.html</u>
- What is ECMS?
  - For Eurosystem Central Banks, ECB's Eurosystem Collateral Management System (ECMS) will manage eligible assets as collateral in Eurosystem credit operations, thereby establishing harmonised functions and services for the Eurosystem and its counterparties
  - Full details can be found here: <u>https://www.ecb.europa.eu/paym/target/ecms/html/index.en.html</u>
- Both initiatives will be implemented on 8 April 2024<sup>\*\*</sup>

<sup>\*</sup> Note that SCoRE Standards apply also for non-NCB collateral positions (i.e., outside of ECMS)

<sup>\*\*</sup> Note that AMI-SeCo agreed that SCoRE and ECMS should remain aligned, thereby delaying the implementation of SCoRE also to 8 April 2024

# **SCoRE and ECMS** The story so far

- SCoRE Standards
  - Drafting started in 2017
  - First publications in December 2019 for Triparty Collateral Management, Corporate Actions and Billing
  - Updates published in June 2021 for Triparty Collateral Management and Billing, and December 2021 for Corporate Actions
  - A further update to Corporate Actions standards is planned to be published in H1 2023
- ECMS
  - Originally implementation date November 2022
  - Revised to November 2023 in October 2020
  - Revised to 8 April 2024 in December 2022. Revised test schedule releases end January 2023
- Impacts for Clearstream and LuxCSD clients
  - SCoRE is not regulation, directive nor law. However, it does provide market practice guidelines for TCM, CA and Billing, which Clearstream and LuxCSD will comply with as far as possible
  - ECMS will provide a centralized platform for Eurosystem collateral management and as such, will impact banks pledging collateral to NCBs

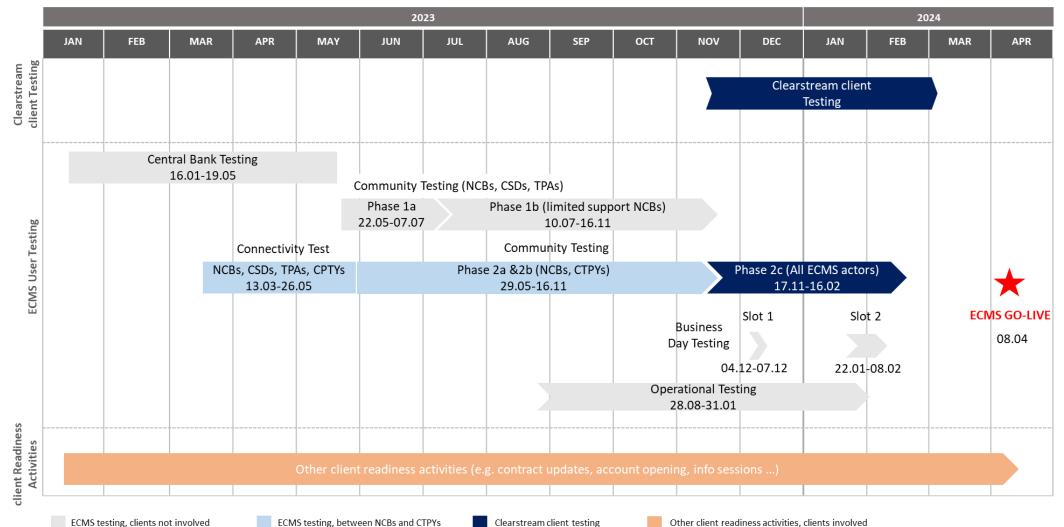
# **SCoRE and ECMS**

#### The story so far

- Clearstream and LuxCSD
  - Members of TCM and AS Expert Groups
  - Functional Specifications for SCoRE and ECMS originally published August 2022, now updated <u>https://www.clearstream.com/clearstream-en/strategy-and-initiatives/integrating-with-ecms/ecms-and-score-implementation</u>
  - Mandatory change kept to a minimum
  - We are on track for the start of full community testing in November 2023, and for the go live in April 2024

# **SCoRE and ECMS**

#### **Revised project planning**





Functional Specifications – Corporate Actions

### **Functional Specifications – Corporate Actions** List of available event combinations

This section provides details in line with SCoRE CA Standard 2: Provision of data necessary for calculation proceeds; SCoRE CA Standard 3: Consistency of information provided by issuer (I)CSDs, investor (I)CSDs and custodians.

#### **Event combinations**

- The event combinations (of event type, participation type and options) will be supported for both ISO 20022 and ISO 15022
- Please refer to the list of available event combinations in Appendix or in the Functional Specifications document

#### Tefra D?

The offering of the strict procedure for managing TEFRA D events, currently available on CBF side, will be decommissioned as of go live of ECMS/SCORE Standards implementation and should be removed as an option to be offered when accounts are opened

Refer to CBL handbook for further details?

## **Functional Specifications – Corporate Actions** Message format (1/3)

ISO 20022 messages will be available to clients for corporate actions and meetings/proxy voting services:

- ISO 20022 for clients will remain optional but there may be some updates required to associated processes and the formats of equivalent ISO 15022 messages. However, meeting event messages are planned to be exclusively in ISO 20022 format, in order to comply with the needs of the Shareholder Rights Directive II.
- Clearstream Banking / LuxCSD intends to minimise the impact on market participants, as far as possible, and therefore coexistence of the ISO 15022 format will be ensured.
- During the coexistence period, between ISO 20022 and ISO 15022, additional coexistence rules will be applied to the incoming ISO 20022 messages to ensure a one-to-one mapping with ISO 15022.

## **Functional Specifications – Corporate Actions** Message format (2/3)

This section provides details in line with SCoRE CA Standard 15: Implementation of ISO20022 messages for corporate actions

SCoRE CA/Meeting Message name	ISO 20022	ISO 15022 equivalent
Corporate Action Notification	Seev.031 (CANO)	MT564 / MT568 NEWM/REPL/ <mark>RMDR</mark>
Corporate Action Event Processing Status Advice	Seev.032 (CAPS)	(MT567 EVST)*
Corporate Action Instruction	Seev.033 (CAIN)	MT565 NEWM
Corporate Action Instruction Status Advice	Seev.034 (CAIS)	MT567 INST
Corporate Action Movement Preliminary Advice	Seev.035 (CAPA)	MT564 REPE
Corporate Action Movement Confirmation	Seev.036 (CACO)	MT566 NEWM
Corporate Action Movement Reversal Advice	Seev.037 (CARE)	MT566 REVR
Corporate Action Cancellation Advice	Seev.039 (CANC)	MT564 CANC/WITH
Corporate Action Instruction Cancellation Request	Seev.040 (CAIC)	MT565 CANC
Corporate Action Instruction Cancellation Request Status Advice	Seev.041 (CACS)	MT567 CAST
Corporate Action Movement Preliminary Cancellation Advice	Seev.044 (CAPC)	MT564 ADDB

\* This message is not generated by Clearstream Banking / LuxCSD

## **Functional Specifications – Corporate Actions** Message format (3/3)

This section provides details in line with SCoRE CA Standard 15: Implementation of ISO20022 messages for meetings

SCoRE CA/Meeting Message name	ISO 20022	ISO 15022 equivalent
Meeting Notification	Seev.001 (MENO)	MT564 / MT568 NEWM/REPL
Meeting Cancellation	Seev.002 (MECN)	MT564 CANC/WITH
Meeting Entitlement Notification	Seev.003 (MENT)	N/A
Meeting Instruction	Seev.004 (MEIN)	MT565 NEWM
Meeting Instruction Cancellation Request	Seev.005 (MEIC)	MT565 CANC
Meeting Instruction Status	Seev.006 (MEIS)	MT567 INST/CAST
Meeting Vote Execution Confirmation	Seev.007 (MECO)	N/A
Meeting Result Dissemination	Seev.008 (MERD)	MT568
Meeting Fee Confirmation	Seev.031 (CONS MAND)	MT566

### **Functional Specifications – Corporate Actions** Corporate Action Notification (1/2)

This section provides details in line with SCoRE CA Standard 1A: Harmonised business processes and workflows for corporate actions notification

Impact for all clients

Description		
The Safe	keeping Place Type will be populated	as described in the table below, for messages MT564, seev.031, seev.035 CAPA and seev.044 CAF
	Entity	Future (CBF, CBL and LuxCSD)
	CBF as Issuer CSD	"NCSD" and BICCODE of CBF (DAKVDEFFXXX)
	CBL as Issuer CSD	"ICSD" and BICCODE of CBL (CEDELULLXXX)
	LuxCSD as Issuer CSD	As today
	Investor CSD links	As today
		The Safekeeping Place Type will be populated Entity CBF as Issuer CSD CBL as Issuer CSD LuxCSD as Issuer CSD

### **Functional Specifications – Corporate Actions** Corporate Action Notification (2/2)

Impacts for ISO 20022 users

Impact type	Description	
NEW	Clients may receive CA Notification, CA Notification Replacement and CA Notification Reminder via seev.031 CANO.	
NEW	Clients may receive CA Cancellation/Withdrawal via seev.039 CANC.	

#### Impacts for ISO 15022 users

Impact type	Description
	Corporate Action Notification - MT564 CA including:
	<ul> <li>Change Allowed Indicator (CHAN), Withdrawal Allowed indicator (WTHD) or Revocability Period;</li> </ul>
CHANGE	<ul> <li>End of Securities Blocking Period indicator (BLOK) for all events where blocking is required;</li> </ul>
CHANGE	<ul> <li>Earliest Payment Date for cash proceeds only when payment date falls on a non-business day;</li> </ul>
	A negative sign "N" in rate field whenever the interest rate for an Interest Payment event is negative.
	<ul> <li>Maximum Quantity to Instruct.</li> </ul>
CHANGE	MT564 IPAR including Earliest Payment Date only when the payment date falls on a non-business day.

#### **Functional Specifications – Corporate Actions** Corporate Action Instruction

This section provides details in line with SCoRE CA Standard 1B: Harmonised business processes and workflows for corporate actions instruction

Impacts for ISO 20022 users

Impact type	Description	
NEW	Clients may send CA Instruction via seev.033 CAIN.	
NEW	Clients may send CA Instruction Cancellation Request via seev.040 CAIC.	
	If a CA Instruction has been received by Clearstream Banking / LuxCSD, clients may receive a CA Instruction Status Advice via seev.034 CAIS.	
NEW	If no CA Instruction has been received by Clearstream Banking / LuxCSD (that is, the default option is chosen when no action is taken by clients), clients may receive a <b>CA Instruction Status Advice via seev.034 CAIS</b> at the end of the exercise period (indicating " <b>DFLA Default Action</b> "), upon subscription only.	
NEW	Clients may receive CA Instruction Cancellation Request Status Advice via seev.041 CACS.	

Impacts for ISO 15022 users

Impact type	Description
NEW	If no CA Instruction has been received (that is, the default option is chosen when no action is taken by clients), clients may receive a CA Instruction Status Advice via MT567 INST, at the end of the exercise period ("DFLA Default Action") if they are subscribed to it.

### **Functional Specifications – Corporate Actions** Corporate Action Advice

This section provides details in line with SCoRE CA Standard 1C: Harmonised business processes and workflows for corporate actions advice

Impacts for ISO 20022 users

Impact type	Description
NEW	Clients may receive <b>NEWM and REPL as movement preliminary advice via seev.035 CAPA.</b> CAPA messages: • will be available at end of record date (that is, end of business day of the relevant settlement system), upon subscription only . • will include the field "Safekeeping Place Type".
NEW	Clients may receive incoming seev.044 CAPC message for CA movement preliminary advice cancellation advice. This may be sent when the CA is cancelled and the resulting entitlement is reduced to zero, or a previously announced reversal has been cancelled.

#### **Functional Specifications – Corporate Actions** Corporate Action Confirmation

This section provides details in line with SCoRE CA Standard 1D: Harmonised business processes and workflows for corporate actions confirmation

Impacts for ISO 20022 users

Impact type	Description	
NEW	Clients may receive CA movement confirmation via seev.036 CACO including a 'Safekeeping Place Type' field.	
NEW	Clients may receive <b>CA event processing status advice via seev.032</b> including a ' <b>Safekeeping Place Type' field</b> . These impacts also cover the requirement for CA Standard 9.	
NEW	Once the resulting proceeds of the CA event have been credited/debited to/from clients' accounts, clients may receive CA Movement Confirmation via seev.036.	
NEW	Clients may receive a credit/debit confirmation via camt.054.	

#### Impacts for ISO 15022 users

Impact type	Description
CHANGE	Corporate Action Confirmation - MT566 CA.
	Rate field will now include a negative sign "N" whenever the interest rate for an Interest Payment event is negative.

### **Functional Specifications – Corporate Actions** Reversal of Corporate Action (1/3)

This section provides details in line with SCoRE CA Standard 1E: Harmonised business processes and workflows for reversal of corporate actions; SCoRE CA Standard 13: Reversal of a corporate action

Impacts for ISO 20022 users

Impact type	Description	
NEW	Clients may receive a <b>reversal notification mentioning the Reversal Reason via Movement Preliminary Advice seev.035 CAPA</b> . Note: in order to distinguish between the CAPA message sent for reversal advice and the CAPA message sent for CA entitlement, clients should refer to the presence of the field "reversal reason".	
NEW	Clients may receive a cancellation of a reversal notification via Movement Preliminary Advice Cancellation Advice seev.044 CAPC.	
NEW	Clients may receive a confirmation of reversal via Movement Reversal Advice seev.037 CARE mentioning the reversal reason.	
NEW	Clients may receive a credit/debit confirmation via camt.054.	

### **Functional Specifications – Corporate Actions** Reversal of Corporate Action (2/3)

This section provides details in line with SCoRE CA Standard 1E: Harmonised business processes and workflows for reversal of corporate actions; SCoRE CA Standard 13: Reversal of a corporate action

Impacts for ISO 20022 users

Impact type	Description		
	The reversal pre-advice message shall include information on the reason for the reversal. A list of possible reversal reasons are included in the table below:		
	Reason	Reason Code	
	Day Count Basis Difference	DCBD	
NEW	Incorrect Value Date	IVAD	
	Incorrect Record Date	IRED	
	Incorrect Price	IRPI	
	Undue Payment	UPAY	
	Incorrect Event Level Tax Rate	IETR	
	Incorrect Payment Currency	IPCU	

### **Functional Specifications – Corporate Actions** Reversal of Corporate Action (3/3)

Impact for ISO 15022 users

Impact type	Description
CHANGE	The <b>Claim and Reversal Advice (CRA) report will be updated</b> to cover all supported CA event type entitlement reversals, plus any additional event type combination mentioned in section "List of available event combinations" of this document.

This process also covers the reversal of retrocession payments for Triparty Collateral Management positions.

### **Functional Specifications – Corporate Actions** Rounding Rules

This section provides details in line with SCoRE CA Standard 4: Rounding rules

Impact type	Description
CHANGE	Rounding down will now be applied Rounding down will now be applied on the gross amount resulting from a corporate actions cash payment (versus commercial rounding). This is without prejudice to the potential application of other rounding rules when Clearstream Banking / LuxCSD acts as the last intermediary in the holding chain (e.g., as tax agent for DE ISINs). In the cases where Clearstream Banking / LuxCSD is acting as tax agent, Clearstream Banking / LuxCSD will continue to apply the current rounding rules required by the respective tax authorities, i.e., no change for these rules as these depend on the current guidance of the tax authorities - e.g., for some elements of the German withholding tax calculations that would continue to be rounded up (KESt.), while rounding down will be applied for the solidarity tax (SoIZ).

#### **Functional Specifications – Corporate Actions** Negative Cash Flows

This section provides details in line with SCoRE CA Standard 5: Negative cash flows

Impact type	Description
NEW	<ul> <li>For both Issuer CSD and Investor CSD business:</li> <li>Securities with a fixed negative interest rate are not eligible in Clearstream Banking / LuxCSD and this condition is already part of the current acceptance process. If such security is accepted by error, its acceptance will be revoked, and the security should be removed.</li> <li>Securities with floating interest rate resulting in a negative coupon amount cannot be identified during the acceptance phase. In the case of occurrence, the payment will be floored at zero.</li> <li>The only negative coupons that will be processed are those of Danish Securities, paid simultaneously with PCAL events (i.e., INTR/PCAL linked events), and resulting in no net negative cash flow. This applies to both fixed interest rate instruments and floating interest rate instruments.</li> </ul>

## **Functional Specifications – Corporate Actions** Business Day Rule (1/2)

This section provides details in line with SCoRE CA Standard 6: Business day rule

## **Functional Specifications – Corporate Actions** Business Day Rule (2/2)

This section provides details in line with SCoRE CA Standard 6: Business day rule

Impact type	Description
	Please be reminded that for international securities held in T2S, the Corporate Actions cash proceeds shall be paid in central bank money, and therefore cannot be processed under Modified Following Unadjusted, Modified Previous Unadjusted, or Previous Unadjusted conventions. In such cases, those proceeds will always be paid on the following business day.
CHANGE	In addition, in the absence of a business day convention specified in the Terms & Conditions of the issue, Clearstream Banking / LuxCSD will apply the following rules by default: <ul> <li>Following Unadjusted for fixed rate notes</li> <li>Following Adjusted for floating rate notes</li> </ul>
	Only securities issued with one of the three SCoRE compliant business day conventions will be eligible for ECMS collateral management activity.

### **Functional Specifications – Corporate Actions** Payment time and notification of processing status

This section provides details in line with SCoRE CA Standard 8: Payment time; SCoRE CA Standard 9: Notification of processing status

Impact type	Description									
	Only for events with a known due date (for example, payment date, settlement date, or value date), from the due date until the Event Processing Statu for the respective corporate action is complete or until a grace period of 30 days after the payment date has been reached, the CA Event Processing Status Advice (seev.032) for any given proceeds should be sent as follows:									
	For the first	message, this must be sent to clients either:								
		ediately upon receipt of a CA Event Processing Status Advice from the issuer/agent, Issuer CSD, depository or local partner, or if any es arise at Clearstream Banking / LuxCSD which impact the payment of CA proceeds; Or								
	if no information has already been sent, according to the following schedule:									
NEW	At 9:15	<ul> <li>For events paying cash, cash and securities or securities only (for the Investor CSD model only), denominated in currencies operating in time zones C (GMT+3) to M (GMT+12) where cash and/or securities proceeds have not been paid to clients by 09:00; Or</li> </ul>								
		For events paying securities only (for the Issuer CSD model only), where securities proceeds have not been paid to clients by 09h00.								
	At 12:15	<ul> <li>For events paying cash, or cash and securities denominated in currencies operating in time zones Z (GMT+0) to B (GMT+2) where cash and/or securities proceeds have not been paid to clients by 12:00; Or</li> </ul>								
		<ul> <li>For events paying securities only, where securities proceeds have not been paid to clients by 12:00.</li> </ul>								
	At 16:45 For events paying cash, cash and securities or securities only (for the Investor CSD model only), denominated in currencies operating (GMT-1) to Y (GMT-12) where cash and/or securities proceeds have not been paid to clients by 16:30.									
	For subsequ	ent messages, immediately upon receipt of a CA Event Processing Status Advice from the other parties.								

Internal

### **Functional Specifications – Corporate Actions** Elective Events (1/2)

This section provides details in line with SCoRE CA Standard 10: Elective events

Impact type	Description
NEW	"End of Securities Blocking Period" will be systematically populated in the corporate action notification message whenever the corporate action event requires a debit of the basis security in the case of reorganisation events. Upon receipt of an election instruction for an option that was announced with a notification containing "End of Blocking Period", Clearstream Banking / LuxCSD will block the instructed quantity from the time such instruction has been processed until the date described by the "End of Blocking Period" or until the debit of securities is effective for reorganisation events.
NEW	<ul> <li>"End of Securities Blocking Period" will be populated with the code "PAYD" or the value of the pay date, to be understood that blocking of relevant balances will be applied until actual payment of the debit of securities for the respective event has taken place.</li> <li>If an event has different payment dates (for example, for cash and securities), then "NARR" may be used in the "End of Securities Blocking" field and the Narrative field will specify which dates will be the unblocking date for each specific entitlement.</li> <li>If a specific date and / or time is available (for example, for meeting events), the "NARR" field may be populated with that date / time.</li> </ul>

### **Functional Specifications – Corporate Actions** Elective Events (2/2)

Impact type	Description										
	Blocking should be implemented and therefore the "EndOfSctiesBlckgPrd" field should be populated for event combinations where either of the following criteria is met:										
	<ul> <li>the CA event / participation type is mandatory with choice (CHOS); or</li> </ul>										
	<ul> <li>the CA event / participation type is voluntary (VOLU)</li> </ul>										
	The above is applicable only in the case of events which involve	ve debit of basis security.									
NEW	Blocking will also be applied also for the following Event Type / Participation Type / Option combinations that are not in scope of the SCoRE CA standards but are supported by Clearstream Banking / LuxCSD and follow the generic rule for blocking (CHOS/VOLU events with debit of securities) or where fees may be payable (for the CONY / CONN / ABST options) if blocking is required by the issuer / issuer agent / market practice:										
	<ul> <li>BIDS VOLU (SECU/CONY/CONN/ABST)</li> </ul>	<ul> <li>MRGR CHOS SLLE</li> </ul>									
	<ul> <li>DTCH VOLU SECU</li> </ul>	ODLT VOLU SLLE									
	<ul> <li>EXOF VOLU SLLE</li> </ul>	<ul> <li>OTHR CHOS (OTHR/EXER/ABST/CEXC/CONN/CONY/CASE/CASH/SECU)</li> </ul>									
	<ul> <li>EXOF CHOS SLLE</li> </ul>	<ul> <li>OTHR VOLU (OTHR/EXER/ABST/CEXC/CONN/CONY/CASE/CASH/SECU)</li> </ul>									
	EXRI CHOS SLLE	<ul> <li>TEND VOLU (CTEN/CONY/CONN/ABST)</li> </ul>									
	<ul> <li>EXWA VOLU SLLE</li> </ul>										

# **Client Readiness Activities**

# **Client Readiness Activities** Overview

ECMS - SCoRE Business Readiness Planning				2023 2024																			
	Mar	Apr	May	J	un	Jul		Aug		Sep	)	Oct		Nov	Dec	:	Jan	Fev		Mar	Apr		May
Project Timeline 2023-2024																							
Overall project																							
Specification phase																							
Client testing																							
Implementation																					8.04		
Client Readiness																							
Client Information Sessions			Intro	o <mark>u</mark> ctio	n/Func	t. Specs.			Т	<mark>estin</mark> g								Mi	<mark>gra</mark> tion				
Client Functional Documentation																							
Detailed functional specifications (CBL/CBF/LuxCSD)																							
lssuer impacts																							
Client Testing																							
Detailed test guide																							
Testing registration and set up																							
Migration and Launch Preparation																							
Migration guide																							
Post Migration																							
Client handbooks and other documentation																							
Client queries handling via ECMS.Programme@clearstream.com																					Pc	ost-migra	ation supp

# **Misc and Q&As**



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# Thank you for your attention!

Questions can be always raised via email:

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# Appendix

#### List of available event combinations (1/8)

CA Event ID (CAEV)	CA Event Participation Type (CAMV)	CA Event Options (COAP)
ACCU	MAND	CASH
ACTV	MAND	N/A
BIDS	VOLU	CASH
BIDS	VOLU	CTEN
BIDS	VOLU	NOAC
BMET	VOLU	CAGS
BMET	VOLU	CFOR
BMET	VOLU	ABST
BMET	VOLU	NOAC
BMET	VOLU	WMGT
BMET	VOLU	AMGT

BMET	VOLU	WTHH
BMET	VOLU	ONEY
BMET	VOLU	TWOY
BMET	VOLU	THRY
BMET	VOLU	BLNK
BMET	VOLU	CHRM
BMET	VOLU	DISC
BONU	MAND	SECU
BONU	CHOS	SECU
BONU	CHOS	CASH
BPUT	VOLU	CASH
BPUT	VOLU	NOAC
BRUP	MAND	N/A

#### List of available event combinations (2/8)

CAPD	MAND	CASH
CAPG	MAND	CASH
CAPI	MAND	N/A
CERT*	CHOS	QINV
CERT*	CHOS	NOQU
CHAN	MAND	N/A
CHAN	MAND	SECU
CMET	VOLU	CAGS
CMET	VOLU	CFOR
CMET	VOLU	ABST
CMET	VOLU	NOAC
CMET	VOLU	WMGT
CMET	VOLU	AMGT
CMET	VOLU	WTHH
CMET	VOLU	ONEY
CMET	VOLU	TWOY
CMET	VOLU	THRY
CMET	VOLU	BLNK

\*Clearstream Banking / LuxCSD plans to decommission the strict certification procedure for the German market using settlement messages and allowing only the standardised processing using the TEFRA D CERT event.

CMET	VOLU	CHRM
CMET	VOLU	DISC
CONS	VOLU	CONN
CONS	VOLU	CONY
CONS	VOLU	ABST
CONS	VOLU	NOAC
CONV	MAND	SECU
CONV	VOLU	CASE
CONV	VOLU	CASH
CONV	VOLU	SECU
CONV	VOLU	NOAC
CREV	MAND	N/A
DECR	MAND	N/A
DECR	MAND	CASH
DFLT	MAND	N/A
DLST	MAND	N/A
DRAW	MAND	CASH
DRCA	MAND	CASH

Internal

#### List of available event combinations (3/8)

DRIP	CHOS (interim)	SECU
DRIP	CHOS (interim)	CASH
DSCL	VOLU	CONY
DSCL	VOLU	CONN
DSCL	VOLU	NOAC
DTCH	VOLU	CASH
DTCH	VOLU	NOAC
DVCA	MAND	CASH
DVCA	CHOS (for currency choice only)	CASH
DVOP	CHOS (interim)	SECU
DVOP	CHOS (interim)	CASH
DVSE	MAND	SECU
EXOF	VOLU	SECU
EXOF	VOLU	CASH
EXOF	VOLU	CASE
EXOF	VOLU	CEXC
EXOF	VOLU	NOAC
EXOF	MAND	SECU

EXOF	MAND	CASH
EXOF	MAND	CASE
EXOF	CHOS	SECU
EXOF	CHOS	CASH
EXOF	CHOS	CASE
EXRI	CHOS	EXER
EXRI	CHOS	LAPS
EXRI	CHOS	OVER
EXTM	MAND	N/A
EXTM	MAND	SECU
EXTM	CHOS	SECU
EXTM	CHOS	MPUT
EXWA	MAND	EXER (Call Securities)
EXWA	MAND	EXER (Call Cash)
EXWA	MAND	LAPS
EXWA	CHOS	EXER (Call Securities)
EXWA	CHOS	EXER (Call Cash)
EXWA	CHOS	LAPS

Internal

#### List of available event combinations (4/8)

EXWA	VOLU	EXER (Call Securities)
EXWA	VOLU	EXER (Call Cash)
EXWA	VOLU	NOAC
GMET	VOLU	CAGS
GMET	VOLU	CFOR
GMET	VOLU	ABST
GMET	VOLU	NOAC
GMET	VOLU	WMGT
GMET	VOLU	AMGT
GMET	VOLU	WTHH
GMET	VOLU	ONEY
GMET	VOLU	TWOY
GMET	VOLU	THRY
GMET	VOLU	BLNK
GMET	VOLU	CHRM
GMET	VOLU	DISC
INCR	MAND	N/A
INFO	MAND	N/A

INTR	MAND	CASH
INTR	CHOS (only for currency option)	CASH
LIQU	MAND	CASH
LIQU	MAND	SECU
LIQU	MAND	CASE
MCAL	MAND	CASH
MRGR	MAND	SECU
MRGR	MAND	CASE
MRGR	CHOS	SECU
MRGR	CHOS	CASE
MRGR	CHOS	CASH
ODLT	VOLU	CASH
ODLT	VOLU	SECU
ODLT	VOLU	NOAC
OTHR	MAND	N/A
OTHR	VOLU	N/A
OTHR	CHOS	N/A
PARI	MAND	SECU

Internal

#### List of available event combinations (5/8)

PCAL	MAND	CASH
PINK	MAND	SECU
PLAC	MAND	N/A
РРМТ	MAND	SECU
PRED	MAND	CASH
PRIO	VOLU	SECU
PRIO	VOLU	OVER
PRIO	VOLU	NOAC
REDM	MAND	CASH
REDM	MAND	SECU (Relevant for reverse convertibles & equity-linked notes only)
REDM	CHOS (only for currency option)	CASH
REMK	CHOS	SECU
REMK	CHOS	CASH
RHDI	MAND	SECU
SHPR	MAND	CASH
SOFF	MAND	SECU
SPLF	MAND	SECU

SPLR	MAND	SECU
SUSP	MAND	N/A
TEND	VOLU	SECU
TEND	VOLU	CASE
TEND	VOLU	CASH
TEND	VOLU	NOAC
TEND	MAND (for equities only)	SECU
TEND	MAND (for equities only)	CASE
TEND	MAND (for equities only)	CASH
TREC	VOLU	CASH
TREC	VOLU	NOAC
WRTH	MAND	LAPS
WTRC	VOLU	NOAC
WTRC	VOLU	BOBD
XMET	VOLU	CAGS
XMET	VOLU	CFOR
XMET	VOLU	ABST
XMET	VOLU	NOAC

Internal

#### List of available event combinations (6/8)

ХМЕТ	VOLU	WMGT
XMET	VOLU	AMGT
XMET	VOLU	WTHH
XMET	VOLU	ONEY
XMET	VOLU	TWOY
XMET	VOLU	THRY
ХМЕТ	VOLU	BLNK
XMET	VOLU	CHRM
XMET	VOLU	DISC

#### **ECMS client Readiness** List of available event combinations (7/8)

Please note that the following event combinations will not be supported:

CA Event ID (CAEV)	CA Event Participation Type (CAMV)	CA Event Options (COAP)	Comments
BONU	CHOS	LAPS	Clearstream Banking / LuxCSD will use option CASH CHOS
CAPD	CHOS (used when a currency choice is offered)	CASH	Clearstream Banking / LuxCSD will use DVCA CHOS
CAPG	CHOS	CASH	Clearstream Banking / LuxCSD will use DVCA CHOS
DECR	MAND	SECU	Clearstream Banking / LuxCSD will use SPLR when the number of securities is reduced
DECR	CHOS (for currency conversion option only)	CASH	Clearstream Banking / LuxCSD will use DVCA CHOS
DSCL	MAND	CONY	This is already supported but only as an informative template
DVSC	MAND	SECU	Clearstream Banking / LuxCSD will use BONU or DVSE
INCR	MAND	SECU (for equities only)	Depending on the content, Clearstream Banking / LuxCSD may issue a CHAN if no amount is credited, or BONU if an amount is credited
LIQU	CHOS	CASH	<ul> <li>For interim liquidation, distribution will be mapped to DVCA CHOS CASH</li> <li>For final liquidation, distribution will be mapped to EXOF CHOS CASH</li> </ul>
LIQU	CHOS	SECU 39	<ul> <li>for interim liquidation, distribution will be mapped to SOFF CHOS SECU</li> <li>for final liquidation, distribution will be mapped to EXOF CHOS SECU</li> </ul>

Internal

#### List of available event combinations (8/8)

LIQU	CHOS	CASE	<ul> <li>for interim liquidation, distribution will be mapped to SOFF CHOS CASE</li> <li>for final liquidation, distribution will be mapped to EXOF CHOS CASE</li> </ul>
PINK	MAND	OTHR	Clearstream Banking / LuxCSD will use option SECU
PLAC	MAND	SECU	Clearstream Banking / LuxCSD will use EXOF SECU if a security exchange is involved
РРМТ	CHOS	LAPS	Clearstream Banking / LuxCSD will transform into PPMT MAND
РРМТ	CHOS	SECU	Clearstream Banking / LuxCSD will use OTHR/CHOS/SECU instead
REDO	MAND	N/A	If no change of ISIN, REDO will be sent as informative event and all changes will be processed via settlement flows. In case of a change of ISIN, processing will take place as CHAN with option SECU
REDO	MAND	SECU	If no change of ISIN, REDO will be sent as informative event and all changes will be processed via settlement flows. In case of a change of ISIN, processing will take place as CHAN with option SECU