# Collateral Management

Triparty Interoperability Validation of high level concept

London, September 2007

clearstream BEUTSCHE BÖRSE GROUP





#### Conceptual Model

- Application to CCP GC business
- Settlement approach
- High level scenarii

#### Conceptual model

#### **ASSUMPTIONS**

- 1) There are no settlement impediments;
- 2) Each triparty system keeps the required level of control on the assets subject to the collateral management services it provides to its customers, thereby avoiding « securities creation »;
- 3) Existing service levels achieved in each respective triparty system shall not face significant downgrade;
- 4) The interoperability model has to ensure a level-playing field for each triparty agent and its respective customers.

#### TERMINOLOGY

\_

- CG Collateral Giver
- CT Collateral Taker
- CCP Central Counterparty
- TSCG Triparty agent of the Collateral Giver
- TSCT Triparty agent of the Collateral Taker
- CUSTCG Custodian of the Collateral Giver
- CUSTCT Custodian of the Collateral Taker
- ALLOC<sub>TSCG</sub> Allocation algorithm run by the Triparty agent of the Collateral Giver
  - ALLOC<sub>TSCT</sub> Allocation algorithm run by the Triparty agent of the Collateral Taker
  - SSS Securities Settlement System

### Triparty Interoperability Conceptual model – with RE-USE



#### Triparty Interoperability Conceptual model – pre-requisites

#### SOME PREREQUISITES TO ANY IMPLEMENTATION:

- Alignment of securities data (reference data, including pricing, rating, FX rates etc...)
- Alignment of custody events handling procedures (e.g. automatic exclusion)
- Alignment of screening algorithms (haircuts, concentration calculations ...)
- Alignment of the collateral allocation algorithms specifically with respect to re-use (timings of the allocation processes, processing of substitutions)

#### **MITIGATING FACTORS:**

- 1. Restriction in the scope in terms of eligible assets (e.g. ERC baskets, EuroGC, ECB, ...)
- 2. One third party is owner of the baskets definition and provides the two triparty agents with an unambiguous list of eligible securities.

#### → SOME IT DEVELOPMENTS AND PROCESS REFINEMENTS MOST PROBABLY REQUIRED



- Conceptual Model
- Application to CCP GC business
- Settlement approach
- High level scenarii

### Triparty Interoperability Application to CCP GC business

#### **CCP GC business**

- The business being considered (GC product) implies collateral re-use;
- By definition of its role, the presence of a central counterparty simplifies the implementation of the triparty interoperability model;
- The CCP would establish a relationship with BOTH triparty agents;
- The collateral movements could then be operated under Power of Attorney, as it is the case today, in a bilateral environment.

#### **VOLUMES AND NETTING**

- Volumes and potential activity to be confirmed;
- The netting effect, at GC basket level, may ultimately limit the volumes processed in triparty;
- But contrarily to the bilateral GC business,
  - netting will be at GC basket level by the CCP (i.e. no settlement netting of individual lines of collateral)
  - the exact lines to be transferred will result from an allocation process run by the triparty agent

### Triparty Interoperability Application to CCP GC business





- Conceptual Model Review
- Application to CCP GC business
- Settlement approach
- High level scenarii

Settlement approach for CCP GC business



### Triparty Interoperability Settlement approach for CCP GC business



### Triparty Interoperability Settlement approach for CCP GC business





- Conceptual Model Review
- Application to CCP GC business
- Settlement approach
- High level scenarii



#### Process:

- TSCG identifies available securities and triggers its allocation process 1.
- 2. 3. The resulting instructions are generated inter-SSS (bridge)
- THEN TSCT triggers its allocation process
- The resulting instructions are generated intra-SSS (internal) 4.



#### Process:

- 1. TSCG identifies a need for substitution and triggers a substitution
- 2. The corresponding instructions are generated inter-SSS (bridge)
- 3. THEN TSCT identifies a need for substitution and triggers the substitution
- 4. The corresponding instructions are generated intra-SSS (internal)

#### SCENARIO #1

 $SSS_1 = EB, ALLOC_{CG} = AutoSelect (A/S)$  $SSS_2 = CBL, ALLOC_{CT} = AutoAssign (A/A)$ 



- → Having 2 Securities Settlement Systems adds some constraints on the model
- First high level analysis based on the new Bridge enhancements to be implemented in Q2-2008

#### IMPORTANT ASPECTS STILL TO BE ANALYZED IN DETAILS:

- Impacts on the current service level and ways to minimize such impacts
- Liquidity potential impact on the ICSDs treasury
- Inter-ICSD credit meaning exposure related to Bridge settlement
- Customer credit impact on the credit line of customers at the ICSD

#### → NEEDS FOR PROCESS REFINEMENTS AND ASSESSMENT OF I.T. DEVELOPMENTS TO BE DONE AFTER DETAILED ANALYSIS