

# Xemac User Manual March 2022

## Xemac User Manual

March 2022

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1.	Intro 1.1.	duction Objective of this User Manual	. <b>13</b> 13
	1.2.	Basic Requirements for the operation of Xemac	13
2.	Weld	ome to Xemac	. 14
	2.1.	Functional overview	14
	2.2.	Logging into Xemac: Main view	16
	2.3.	Tabular views and full views	18
		2.3.1.Tabular view	18
		2.3.2.Full view	20
	2.4.	Context menus	22
		2.4.1.Context menus for icons	22
		2.4.2.Menu item "Options": How to define a view as standard view	23
3.	How	to access the system	. 24
	3.1.	Starting the application	24
	3.2.	How to log into Xemac and change the password	24
	3.3.	Security concept	26
	3.4.	Opening hours	26
	3.5.	Overview of the essential steps	27
		3.5.1.Notification of a global amount to Deutsche Bundesbank or to another NCB	27
		3.5.2.Pledging Collateral in favour of Eurex	28
		3.5.3.Participation in GC Pooling	29
		3.5.4.Participation in Collateral Management Secured Instruments	30
4.	Key	functions and basic principles	. 31
	4.1.	Introduction	31
	4.2.	Versioning and status concept	31
		4.2.1.Particularities with respect to Contract Conclusions	32
		4.2.2.Particularities with respect to Claims	32
	4.3.	Four-eye principle	34
		4.3.1.Particularities with respect to Contract Conclusions	34
		4.3.2.Particularities with respect to Claims	34
		4.3.3.Particularities with respect to Exposure Requests	35
	4.4.	Reciprocal confirmation	35
	4.5.	Examples	36
		4.5.1.Example: Initial notification of global amount towards Deutsche Bundesbank	36
		4.5.2.Example: Reduction of a global amount	37
		4.5.3.Example: Reduction of a global amount rejected by Collateral Provider	38
		4.5.4.Example: Reduction of a Global amount rejected by Deutsche Bundesbank	39

	4.6.	Processing information	39
		4.6.1.Example: Processing information "Claims"	41
		4.6.2.Special cases for Claims	
		4.6.3.Special cases for Client References	
		4.6.4.Special cases for Contract Conclusions	
		4.6.5.Special cases for instructions (Debits and Credits)	45
		4.6.6.Processing information for Claims	
		4.6.7.Processing for Contract Definition Type "NCB"	
		4.6.8.Processing for Contract Definition Type "Eurex"	
		4.6.9.Processing for Contract Definition Type "CMSI"	
		4.6.10.Processing for Contract Definition Type "Euro GC Pooling"	
		4.6.11.Processing for Contract Definition Type "Clearstream"	50
	4.7.	Securities eligibility for Xemac	50
		4.7.1.Contract Definition Type "NCB"	52
		4.7.2.Contract Definition Type "CMSI"	52
		4.7.3.Contract Definition Type "Euro GC Pooling"	52
		4.7.4.Contract Definition Type "Eurex"	53
		4.7.5.Contract Definition Type "Clearstream"	53
	4.8.	Mark-to-Market	53
		4.8.1.Re-evaluation of collateral	53
		4.8.2.Calculation of Accrued Interest	55
	4.9.	Automatic Allocation/Release	55
	4.10.	Manual Allocation/Release	57
		4.10.1.Brief description	57
		4.10.2.How to manually allocate Collateral	57
		4.10.3.How to manually release Collateral	
		4.10.4.How to substitute Collateral	
		4.10.5.Manual Allocation/Release in GC Pooling Claims	
		4.10.6.Xemac views of Allocation Instructions	
		4.10.7.How to view existing manual allocation/release	
		4.10.8.How to check a manual allocation/release	
		4.10.9.How to reject a manual allocation/release	
		4.10.10.How to delete a manual allocation/release	
5.	Work	ing with Xemac	67
	5.1.	Contract Definitions are the basis for Contract Conclusions	67
		5.1.1.Brief description	
		5.1.2.Views in Xemac	
		5.1.3.How to display a Contract Definition	
	5.2.	Save client data as Client References	78
		5.2.1.Brief description	

		5.2.2.Views in Xemac	
		5.2.3.Processing Client References	
		2.2.1.Functions available depending on the status of the Client Reference	88
	5.3.	How to adjust the Settings in Xemac	89
	5.4.	How to set up Contract Conclusions	92
		5.4.1.Brief description	
		5.4.2.Views in Xemac	
		5.4.3.Processing Contract Conclusions	
	5.5.	How to enter Claims in Xemac	101
		5.5.1.Brief description	102
		5.5.2.Views in Xemac	102
		5.5.3.How to maintain Claims	104
	5.6.	How to display Collateral	116
		5.6.1.Brief description	116
		5.6.2.Xemac views	116
		5.6.3.How to display Collateral	119
		5.6.4.Collateral Pool Value view	125
	5.7.	Instructions: How to enter and remove Collateral	127
		5.7.1.Brief description	127
		5.7.2.Views in Xemac	127
		5.7.3.How to enter Collateral in the Collateral Pool	128
		5.7.4.How to display a Credit Instruction	139
		5.7.5.How to modify a Credit Instruction	140
		5.7.6.How to check Credit Instructions	141
		5.7.7.How to delete Credit Instructions	141
		5.7.8.How to reject Credit Instructions	141
		5.7.9.Debit Instructions	142
		5.7.10.Functions available depending on the status of the credit or debit instructions	146
	5.8.	Reports	147
		5.8.1.Brief description	147
		5.8.2.views in Xemac	147
		5.8.3.Processing Reports	149
		5.8.4.Data Transmission Products Reporting	153
	5.9.	Bubble Help	154
6.	Xem	ac in Clearstream's system environment	155
	6.1.	Settlement locations CBF and CBL	155
		6.1.1.CASCADE/T2S (CBF Settlement Location)	155
		6.1.2.Creation (CBL Settlement Location)	156
7.	Glos	sary	158
	7.1.	Glossary: Key terms	158

	7.1.1.Abbreviations	158
	7.1.2.Functional Glossary	161
	7.1.3.Technical Glossary	
8.	Frequently asked questions	
	8.1. FAQ: General	170
	8.2. FAQ: GC Pooling	173
9.	Your hotline to Xemac	
Арр	pendices	
	Appendix 1 – Connectivity via SWIFT ISO 15022	180
	Appendix 2 – Claim Adjustment Request	190
	Appendix 3 – Reports in Xemac	194
	Appendix 4 - ACCESS RIGHTS	212
	Appendix 5 – CASCADE Foreign Currencies	216
Ind	ex	217

## Table of illustrations

# Index of illustrations

Figure 1: Xemac Main view	16
Figure 2: Xemac view Collateral Positions when pre-filter is activated in Settings	18
Figure 3: Tabular view "Claim Amount"	19
Figure 4: Full view "Claims"	21
Figure 5: Logon window	24
Figure 6: Change password window	25
Figure 7: "Processing Information Claim" section	40
Figure 8: Compulsory Claim Decrease	54
Figure 9: Manual Allocation/Release –"Instruction Data" section	58
Figure 10: Manual Allocation/Release – "Allocate" section	59
Figure 11: Manual Allocation/Release – "Xemac Partner" section	60
Figure 12: Manual Allocation/Release – "Release" section	61
Figure 13: Manual Allocation/Release – "Release" section - automatic selection	63
Figure 14: Rejected Allocation Instructions	65
Figure 15: Eligibility Check	68
Figure 16: Contract Definition – "Identification" for Deutsche Bundesbank (NCB) section	69
Figure 17: Contract Definition – "Identification" for Eurex (Euro GC Pooling: EGCP basket) section	70
Figure 18: Contract Definition – "Eligibility" section for Deutsche Bundesbank (NCB)	72
Figure 19: Contract Definition – "Eligibility" section (Eurex)	72
Figure 20: Contract Definition – "Eligibility" section (Euro GC Pooling Classic)	73
Figure 21: Contract Definition – "Contract Details" section (NCB)	74
Figure 22: Contract Definition – "Contract Details" section (Eurex Reuse)	75
Figure 23: Contract Definition – "Contract Details" section (Euro GC Pooling)	75
Figure 24: Tabular view – Issuer Link	79
Figure 25: Client References – "Client Data" section	80
Figure 26: Client References – "Settlement Data" section	83
Figure 27: Client References - Example: "Client Data" section	85
Figure 28: Client References - Example: "Settlement Data" section	86

## Table of illustrations

Figure 29: "Settings" Full vew	90
Figure 30: Xemac Contract Conclusions Default view	93
Figure 31: Contract Conclusion- "Identification" section	95
Figure 32: Contract Conclusion–"Xemac Partner" section	97
Figure 33: Contract Conclusion- "Controls" section	98
Figure 34: Xemac Default view Claims	103
Figure 35: Claim – "Xemac Partner" section	106
Figure 36: "Claim" – "Claim Details" section	108
Figure 37: Tabular view – "Collateral Positions"	117
Figure 38: Tabular view – "Allocated Collateral"	118
Figure 39: Tabular view – "Collateral Overview"	119
Figure 40: Collateral - "Identification" section	120
Figure 41: Collateral – "Allocation" section	122
Figure 42: Collateral Pool Value view	125
Figure 43: Credit Instruction – "Credit Instruction" section	129
Figure 44: Credit Instruction – "Select Date"	129
Figure 45: Credit Instruction – "Accounts" section, Settlement Location "CBF"	131
Figure 46: Credit Instruction – "Accounts" section, Settlement Location "CBL"	133
Figure 47: Manual Exposure Request – "Exposure Request" section, Basket "ECB"	135
Figure 48: Manual Exposure Request – "Accounts" section	136
Figure 49: Manual Exposure Request – "Accounts" section	137
Figure 50: New Debit Instruction – Fields empty	142
Figure 51: New Debit Instruction – "Accounts"' section, Settlement Location "CBF"	144
Figure 52: New Debit Instruction – "Accounts" section with Source Account, Settlement Location "CBL"	145
Figure 53: New Debit Instruction – "Accounts" section with BIC, Settlement Location "CBL"	145
Figure 54: Current Report Definitions view	148
Figure 55: Generated Reports view	149
Figure 56: Reports – "Schedule" section	150

Table 1: Documents available for the customer	. 13
Table 2: Overview of the functions and their availability	. 26
Table 3: Status display for entry of Claims	. 33
Table 4: Status display for deletion of Claims	. 33
Table 5: Status display for entered Claims	. 46
Table 6: Activities on entering a global amount for the first time	. 47
Table 7: Steps for reducing global amounts	. 47
Table 8: Activities for the initial notification of a Claim Amount to Eurex	. 48
Table 9: Activities for the reduction of a Claim Amount	. 49
Table 10: Overview of available collateral groups in Xemac	. 51
Table 11: Collateral groups for the provision of collateral in GC Pooling	. 52
Table 12: Reasons for Compulsory Claim Decrease	. 55
Table 13: Overview of values in the Comment field of GC Pooling Allocation Instruction	. 64
Table 14: Field description of "Eligibility Check" window	. 68
Table 15: Field description of "Contract Definition" window - Header	. 70
Table 16: Field description of "Contract Definition" window – section" Identification"	. 71
Table 17: Field description of "Contract Definition" window – "Eligibility" section	. 73
Table 18: Field description of "Contract Definition" window – "Contract Details" section	. 76
Table 19: Possibilities for referencing a client	. 80
Table 20: Existing plausibility while entering Client References.	. 81
Table 21: Field description of "Client Reference" window – "Client Data" section	. 82
Table 22: Field description of "Client Reference" window – "Settlement Data" section	. 84
Table 23: Available functions depending on status of Client Reference	. 89
Table 24: Representation of date or number depending on language	. 89
Table 25: Field description of window "Settings"	. 91
Table 26: Field description of "Contract Conclusion" window – "Identification" section	. 96
Table 27: Field description of window "Contract Conclusion" – section "Xemac Partner" Own Profile	. 97
Table 28: Field description of "Contract Conclusion" window – "Xemac Partner" section Counterparty	. 98

Table 29: Call by originator	101
Table 30: Claim Status (originator)	105
Table 31: Field description of "Claim" window – Header	106
Table 32: Field description of "Claim" window – "Xemac Partner" Own Profile section	107
Table 33: Field description of window "Claim" – section "Xemac Partner" Counterparty	107
Table 34: Field description of "Claim" window – "Claim Details" section	109
Table 35: Description of field settings of a selected Claim - Header	111
Table 36: Description of field settings of a selected Claim – "Xemac Partner" Own Profile section	111
Table 37: Description of field settings of a selected Claim – "Xemac Partner" Counterparty section	111
Table 38: Description of field settings of a selected Claim – "Claim Details" section	112
Table 39: Exposure adjustment and collateralisation for CMSI Claims	114
Table 40: Field description of "Display Allocated Security" view – Header	120
Table 41: Field description of "Display Allocated Security" view – "Identification" section	121
Table 42: Field description of "Display Allocated Security" view – "Allocation" section	123
Table 43: Field description of "Collateral Pool Value" view	126
Table 44: Field description of "New Credit Instruction" view – Header	130
Table 45: Field description of "New Credit Instruction" view – "Credit Instruction" section	130
Table 46: Field description of "New Credit Instruction" view – section "Accounts" section for CBL	134
Table 47: Field description of "New Exposure Request" view – Header	135
Table 48: Field description of "New Exposure Request" view – "Exposure Request" section	135
Table 49: Field description of "New Exposure Request" view – "Account" section	137
Table 50: File Transfer/SWIFT instruction mechanism	138
Table 51: Description of the Xemac behaviour depending on the instruction settlement date	139
Table 52: Text of status row depending on the instruction status	140
Table 53: Field description of view "New Debit Instruction" – Header	143
Table 54: Field description of "New Debit Instruction" view – "Debit Instruction" section	143
Table 55: Available function/Status of Online instructions	146
Table 56: Available function/Status of File Transfer, SWIFT or IBM Websphere MQ instruction	146
Table 57: Time of Report Generation	151
Table 58: Period of Report Generation	151
Table 59: Field description of "Display Report" view – Header	151

Table 60: Field description of "Display Report" view – "Schedule" section	151
Table 61: Field description of "File save into" window	152
Table 62: Available Reports in Xemac	194
Table 63: Description of Columns of Report "Claim Amount"	195
Table 64: Description of Columns of Report "Current Claims"	196
Table 65: Description of Columns of Report "Daily Change Global Amount"	197
Table 66: Description of Columns of Report "Detailed Claim Amount CMSI"	198
Table 67: Description of Columns of Report "Allocated Collateral"	199
Table 68: Description of Columns of Report "Allocated Collateral per CRef"	200
Table 69: Description of Columns of Report "Allocation Changes"	201
Table 70: Description of Columns of Report "Allocations"	202
Table 71: Description of Columns of Report "Collateral Pool"	203
Table 72 Description of Columns of Report "Collateral Pool per CRef"	204
Table 73: Description of Columns of Report "Collateral Pool Value"	205
Table 74: Description of Columns of Report "Collateral Positions"	206
Table 75: Description of Columns of Report "Collateral Overview"	207
Table 76: Description of Columns of Report "Historical Allocation Instructions"	208
Table 77: Description of Columns of Report "Eligible Securities per CDef"	209
Table 78: Description of Columns of Report "Credit and Debit Instructions"	209
Table 79: Description of Columns of Report "Rejected Instructions'	210
Table 80: Description of Columns of Report "Deletion by System"	211
Table 81: Access rights – Coding example	212
Table 82: Possible Combinations of transactions and functions of the KX context menu	213
Table 83: CASCADE Foreign Currencies.	216

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# **1. Introduction**

# 1.1. Objective of this User Manual

The Xemac User Manual is one of the many documents made available to customers.

Document	Target group	Content
Xemac User Manual	Operations Department	Functional overview of Xemac (this document)
Special Terms & Conditions - Collateral Management	Legal Department	Special terms and Conditions of the participation of customers in the Xemac application
Xemac Installation Manual	Technical Contacts	Technical interface and installation requirements

Table 1: Documents available for the customer

The Xemac User Manual:

- Describes the functions supported by Xemac;
- Explains the structure and content of the application windows;
- Familiarises users with the Xemac system and its features.

The main focus is on a detailed description of the application windows and their functions.

### 1.2. Basic Requirements for the operation of Xemac

The following requirements must be met in order to use Xemac:

- The customer has acknowledged the Special Terms for the Management of Collateral;
- The security administrator of the customer has set up the rights to access. The user has been given an user ID and a password for Xemac;
- The Xemac client has been fully installed and configured. The network administrator and the system administrator of the user are required to make sure that all network, hardware and software requirements have been met as described in the Xemac Installation Manual.

Users experienced with Windows applications should find that they quickly gain familiarity with Xemac.

# 2.1. Functional overview

Security and cash collateralised transactions are gaining increasing importance within the international finance markets. Consequently, market participants require an effective collateral management solution, in order to be able to achieve optimal allocation of securities. To support this market requirement, the Xemac product offers an extensive service for the administration and management of securities collateral for Clearstream customers. The Xemac product facilitates customer collateral management administration by automating the majority of required tasks. This enables flexible use of collateral across the following markets:

- Pledge collateral in favour of the Deutsche Bundesbank within the scope of money market interventions of the European System of Central Banks (ESCB). In addition to the disposition account at Deutsche Bundesbank (where collateral is held available for pledging), customers can also provide collateral in Xemac for money market interventions of the ESCB. The collateral in Xemac can be used to collateralise all money market interventions. This includes the open-market interventions as well as intraday and overnight loans, among others.
- **Pledge collateral for the derivatives exchange** (Eurex). This includes the deposit of full or partial cover for margin requirements pursuant to the exchange's Risk Based Margining System.
- **Bi-lateral contracts**. Bi-lateral contracts can be entered into between Customers, covering exposures for various purposes, for example, credit lines for Clearstream.
- General Collateral (GC) Pooling Repo. Launched in March 2005, GC Pooling is a highly liquid market for secured funding in EUR, USD, CHF and GBP. The international participants benefit from anonymous electronic trading within Eurex Repo, through a central counterparty (CCP), within Eurex Clearing, with a real-time collateral management system, Xemac.

It is easy to trade extremely large tickets and deals can be seamlessly completed and then processed automatically. The compelling advantage of GC Pooling is the possibility to reuse received collateral for further money market transactions, the Eurex Clearing Margining process and refinancing within the framework of European Central Bank (ECB) open market operations, provided that the bank has a German banking licence.

GC Pooling Market participants can select the various standardised baskets by predefined terms per currency. Customers can execute Overnight (ON), Tomorrow Next (TN) and One Week Tender harmonised with ECB Tender Term. The bookings on the underlying securities take place in CASCADE/T2S and Creation automatically. Customers can, however, carry out manual release of a desired ISIN by having free eligible ISIN(s) of equivalent collateral value in a pool.

• **Collateral Management Secured Instruments**. This service provides the investor with the necessary protection in case of issuer default/bankruptcy. The issued volumes are collateralised via Xemac. The administration of the collateral is carried out by Clearstream, which acts as a fiduciary between the issuer and the investor. Should the issuer default, the collateral is liquidated and paid out to the various investors on a pro-rata basis.

For these purposes, Xemac offers the following functions:

- Xemac provides a **Contract Definition** with the Contract Definition type "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex" as a basis for the Contract Conclusions. Basic definitions are made with regard to eligible securities collateral, haircut, allocation type, Claim amount premium, inclusion of accrued interest, reusability, evaluation method and the application of concentration limit.
- Customers can use Xemac for the institutions linked to the account. One can refer to these clients by assigning **Client References**. The Client References can also be used to structure the collateral pool. For instance, individual divisions can manage their collateral separately.
- Based on the Contract Definition types ("NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex"), the Collateral Taker initiates **Contract Conclusions** in the system in favour of the Collateral Provider. During confirmation, the Collateral Provider can assign the respective Client Reference to the Contract Conclusion.
- To ensure that these Claims are collateralised, participants are required to enter collateral into the **Collateral Pool**. This is then available for allocation. One can remove surplus collateral from the pool. Should there be a need for the allocated collateral for a different purpose, it can be substituted with other collateral. On request, Xemac will automatically select available and eligible collateral for substitution.
- Participants can view the **Collateral Positions** and Allocated Collateral during the Xemac online opening hours.
- Xemac automatically allocates available collateral to **Claims**.
- The collateralised global amount or the collateralised Claim Amount corresponds to the value of the collateral pledged in favour of the Deutsche Bundesbank, Eurex or any other partner.
- With the icon **"Settings"**, the following options are available: language, bubble help, colour, filter, information messages and the Security Identification Number (SIN).
- The **standard reports** available in this release can be printed out as lists or issued as files (CSV, XLS, HTML, PDF, TXT, XML) for further processing.

## 2.2. Logging into Xemac: Main view

The main view of Xemac appears directly after successful logon. All screens and submenus are accessible from the main menu. Access to Xemac functionality is obtained by "left-clicking" on the Main View icons, or "Right-clicking" to access the function options.

X	6335 - Xemac Main View - !	5.11	_ <b></b>
File Clearstream			
	Instructions	Allocation Instructions	Exposure Requests
Xemac®	Claims	Collateral	Reports
	Client References	Contract Definitions	Contract Conclusions
Xemac Helpdesk: +49 (0)69 211 - 11410			Settings

Figure 1: Xemac Main view

#### The top of the main view contains the icons relative to instructions in general:

- Instructions: In this icon, user can credit/debit collateral into/from the collateral pool. More details are available in section <u>5.7 "Instructions: How to enter and remove</u> <u>Collateral"</u>.
- <u>Allocation Instructions</u>: This feature enables customers to display all types of allocations (Pledge, Appropriation, Transfer, Transfer EGC), or to even validate and check an allocation or release instruction entered by another user.
- <u>Exposure Requests</u>: This icon enables the user to credit his pool with assets from the CBL pool. User can monitor the status of Exposure Requests created in the process.

#### The centre of the main view contains the icons for the following functions in Xemac:

- <u>Claims:</u> Customers can maintain global amounts entered with the Deutsche Bundesbank, Eurex or any other Collateral Taker, except Claims based on Contract Definitions "CMSI" and "Euro GC Pooling". The Claims based on these Contract Definitions are maintained by Clearstream. On top of this, the user can also substitute collateral in this submenu (see section <u>5.5 "How to enter Claims in Xemac"</u>).
- <u>Collateral</u>: Customers can view their collateral positions, allocated collateral or both combined through collateral overview. More details are available in section <u>5.6 "How</u> <u>to display Collateral</u>".

• <u>Reports:</u> Customers can generate reports through this icon. The server makes the generated reports available as printout or file (see <u>section 5.8 "Reports"</u>).

#### The bottom part of the main view contains the icons relative to the set-up of Client Reference, Contract Conclusions and Contract Definitions:

- <u>Client References</u>: They allow customers to maintain their underlying client details (see section <u>5.2 "Save client data as Client References"</u>).
- <u>Contract Conclusions</u>: Here, customers maintain Contract Conclusions with the Deutsche Bundesbank, Eurex as well as with any other Collateral Taker (see section <u>5.4 "How to set up Contract Conclusions"</u>).
- <u>Contract Definitions</u>: Five types of Contract Definitions exist within Xemac (see section <u>5.1 "Contract Definitions are the basis for Contract Conclusions"</u>):
  - "NCB" (which is the basis for Contract Conclusions with Deutsche Bundesbank or another national central bank, for example, BdF, NBB etc.);
  - "Clearstream" (which is the basis for bilateral Contract Conclusions and Securities Lending related products);
  - "CMSI" (which is the basis for all Contract Conclusions with Clearstream relating to the Collateral Management Secured Instruments service);
  - "Euro GC Pooling" (which forms the basis of all Contract Conclusions relating to the collateralisation of the GC Pooling transactions);
  - "Eurex" a (for Contract Conclusions with Eurex).

#### The settings icon is available at the bottom right of the main screen:

- Language: Providing the options of both English and German;
- Bubble Help: Activates or Deactivates user selection for the help facility. Once activated, the Bubble Help is available in every screen by holding the mouse over the field (see section <u>5.9 "Bubble Help"</u>);
- Colour: Credits/debits, free and other securities being presented in contrasting onscreen colours;
- Filter: Activates or deactivates a filter menu bar in all tabular views to enter filter criteria for all available columns;s
- Pre-filter: Activates or deactivates a pre-filter (see Figure 29: "Settings" full view) for four different tabular views: Collateral Positions, Allocated Collateral, Collateral Overview and Historical Claims (under icon Collateral). It is performed with one of the following criteria: Client Reference, Counterparty, ISIN, Settlement Location or System Claim No. Below is a sample view of Collateral Positions when the pre-filter is activated in Settings:

X Collateral Posi	tions - Pre-filter	×			
Please select an option					
Filter selection					
Criterion	<no filter=""></no>	-			
	<no filter=""></no>				
	Client Reference				
	Counterparty				
	Settlement Location				
	SIN				
	OK Cancel				

Figure 2: Xemac view Collateral Positions when pre-filter is activated in Settings

- Information Messages: Providing the options to display or hide a number of information messages;
- Security identification code options offered: German Securities Identification Code, ISIN, Common Code and Cusip.

Left-mouse clicking on one of the icons of the main view leads to the "Standard view" defined in the menu "Options". For example, if the tabular view "Claim Amount" is defined as "Standard view" in the menu "Options", left-clicking on the icon Claims will directly open the tabular view "Claim Amount". More information is available in section <u>2.4.2 "Menu item</u> "<u>Options": How to define a view as standard view</u>". For the icons "Collateral" and "Reports" the "Standard view" cannot be changed.

## 2.3. Tabular views and full views

Certain terms required for working with Xemac are described below by using an example on Claims.

Xemac provides the user with two views for individual sections:

- **Tabular view:** This is an overview in tabular form of, for example, all Claims currently available in Xemac.
- **Full view**: It contains detailed information and entry fields, for example, for a selected Claim.

The tabular views and full views are explained in the following sections.

### 2.3.1. Tabular view

It is possible to display, for example, several Claims in a tabular view. One row is assigned to each Claim.

The following figure is an example of the view **Claim Amount**. The view name is displayed in the Title Bar of the tabular view:

	6335 - Claim Amount     _        Claim View Output Columns									
	Filter Options									
(¢)	Participant No.	Claim Currency	1 Claim Amount	Collateral Value	Cover Ratio	Counterparty				
1	6335	CAD	-1,848,525,112.49	1,848,525,112.49	100.00	7069	DEUTSCHE BU			
2	6335	GBP	-661,422,872.26	661,422,872.26	100.00	7500	EUREX CLEAF			
3	6335	EUR	0	0.00	100.00	7069	DEUTSCHE BU			
4	6335	EUR	0	0.00	100.00	7525	EUREX CLEAF			
5	6335	USD	0	0.00	100.00	7525	EUREX CLEAF			
•	II						•			
							Close			

#### Figure 3: Tabular view "Claim Amount"

The above view shows the available Claims. In addition, there are tabular views for Contract Definitions, Client References, Contract Conclusions, Claims, Collateral, Instructions, Allocation instructions, Exposure Requests and Reports.

The sorting order of a tabular view is set by default but can be changed by a left or rightclick on a table header. Data can be sorted in ascending or descending order of the values in a column. It is possible to sort by up to five columns. The sorting order and the ordering number (1 to 5) are displayed before the column name. By clicking on the button on the left side of the table header, it is possible to reset the sorting to the default order.

A filter menu bar is available in every tabular view. This filter option will be either visible or hidden, depending on the flag set in the "Settings" menu of Xemac. This setting can be modified by every user and stored individually. The filter is activated after data within the tabular view is fully loaded at 100%. It is possible to filter views with up to five criteria by clicking the "+" button. All criteria are combined with the mathematical operator "and". The first dropdown menu contains a list of all columns of the specific tabular view. The third dropdown menu offers a list of available entries in the field chosen in the first dropdown menu, but also allows the entry of different values. The tabular view will be filtered after clicking the "Filter" button. A click on the "Reset" button deletes all entered filter values and shows the full list of records of the tabular view.

The column width is adjusted automatically; users can also amend this by dragging the column line on table header.

The maximum character length of an element in the column determines the column width. If the title is the widest data field, it determines the width. However, due to reasons of representation, there are exceptions to this rule.

Columns can also be repositioned according to user requirements. With the menu item "Columns", it is possible to include and exclude columns from the tabular view as required.

Zeroes after the decimal point are not displayed for amounts. The leading zeroes of a common code are also never displayed.

Each Claim is displayed with the respective information in one row.

Within a tabular view, the user can select one or more lines via keyboard or mouse:

- A row can be selected by clicking on the mouse or arrow (up or down).
- A section can be selected with click and SHIFT+click (where the first click highlights the beginning and the second click the end of the section) or be pressing SHIFT+arrow (up or down).

To process a Claim, the respective Claim must be highlighted with the mouse and then the user must select one of the commands from the menu. Alternatively, the user can use the context menu by clicking on the right mouse button.

If the user wants to display a position, a double-click with the left mouse button has to be done on a selected row, or "ENTER" has to be pressed.

The "Output" menu provides the following options to a user:

- Save As CSV;
- Save As Excel;
- Save As HTML;
- Save As PDF;
- Save As TXT;
- Save As XML;
- Page Setup;
- Print.

It is important to note that saving/printing the output produces the same data as displayed on screen, that is, with the applied sort/filter criterion.

More details on reports are available in section <u>5.8 "Reports"</u>.

It is possible to quit the tabular view with the "Close" button or "Ctrl+S".

### 2.3.2. Full view

Users can switch from tabular view to full view by

- Selecting a row of the tabular view; and
- Double-clicking on the selected row or selecting "Display" in the menu bar.

In order to enter, modify or delete Claims:

- The context menu must be requested with the right mouse button or, alternatively, by using the toolbar; and
- The user must click on a function such as "Modify".

Full views are available for all icons of the main view (Contract Conclusions, Claims, Instructions etc.). The following figure illustrates a full view for Claims:

🔀 6335 - Display Claim					
Own Claim No.	1	System Claim No.	2007000008	Version	151
Own Contract No.		System Contract No.	2007000008	Version	1
Xemac Partn	ier	Claim Det	ails	Processing Inform	nation
Own Profile					
Participant 6335	Name	ABC BANK			
	Client Reference	BLZ 600500	00 ACC 1231234		
	Client	ABC London B	Branch		
Counterparty					
Participant 7069 👻	Name	DEUTSCHE BU	JNDESBANK		•
	Client Reference				
	Client				v
					Close

#### Figure 4: Full view "Claims"

In a full view, the user can re-enter, process or delete Contract Conclusions or Claims, depending on the selection previously made in a tabular view.

The full view is divided into different sections. For example, the full view "Claim" includes the sections: "Xemac Partner", "Claim Details" and "Processing Information". It is possible to switch from section to section by clicking on the title bar of the section.

The section's fields are provided according to the function invoked. Entry fields and output fields are distinguishable as follows: Entry fields have a white background and output fields have a grey background.

Many entry fields allow the selection of the input data directly from a choice list.

The header displays further information on activated functions. The header is visible at all times regardless of which section the user is in.

# 2.4. Context menus

If the user right-clicks on an icon or a selected row of a tabular view, the context menu of the selected icon or tabular view will pop up. The context menu contains activities, which can, for example, be used on a selected Contract Conclusion.

The user can initialise transactions using the context menu.

Xemac provides context menus for icons and tabular views. Alternatively, it is possible to carry out any of the available commands via the tool bar (menu).

### 2.4.1. Context menus for icons

The user can right-click on any of the following icons to request the context menu for that icon:

- Instructions;
- Allocation Instructions;
- Exposure Requests;
- Claims;
- Collateral;
- Reports;
- Client References;
- Contract Definitions; or
- Contract Conclusions;

The context menus of these icons:

- Show a list of available tabular views and full views for the corresponding icon;
- Enable the display of a tabular view or full view by left-clicking on the item; and
- Enable the definition of a new standard view by changing to the view manager via "Options" (not available for icons "Collateral" and "Reports").

With the following icons, the full views can be accessed:

- <u>"Client References" and "Claims"</u> users can enter Client References or Claims.
- <u>"Instructions"</u> users can enter Credit or Debit Instructions.
- <u>"Allocation Instructions"</u> users can check all Allocations, Releases and Substitutions.
- <u>"Exposure Requests"</u> users can enter manual Exposure Requests.
- <u>"Contract Definitions"</u> users can check the eligibility of a security.
- <u>"Contract Conclusions"</u> users can enter Contract Conclusions.

Left-clicking on the icon <u>"Settings"</u>, allows users to get detailed information about the setup of the views. It also allows users to configure the required screen to open up with a single right click. Further details are provided in section <u>2.2 "Logging into Xemac: Main view"</u>.

The user can select "Generated Reports" for the icon <u>"Reports"</u>. This takes the user to the tabular view of all generated reports.

### 2.4.2. Menu item "Options": How to define a view as standard view

Any view provided by Xemac can be stipulated as the default view for all icons. The standard view can be set in the menu item "Options". This does not apply to the icons "Collateral" and "Reports".

A left mouse click on the item "Options" from the context menu of the desired icon opens the corresponding "View Manager". Any view listed in the tabular view "View Manager" can be defined as standard view.

Xemac displays all views available for this icon. The standard view is labelled with "X".

In order to define a different view as standard view, the desired row has to be selected. Then, the context menu must be opened with the right mouse button and the function "Select" must be clicked. Now the change of standard view must be confirmed by pressing the "Yes" button after receiving the question "Do you want to change the standard view?"

When the standard view is re-opened, the currently valid view will appear.

If the user ends the selection with the "No" button, the standard view definition remains unchanged.

# 3. How to access the system

# 3.1. Starting the application

Clearstream Banking supports the operating systems Windows Server 2012 R2 Standard, Windows Server 2008 R2 Standard and Windows 7 Enterprise Edition.

Depending on the configuration, users can start Xemac:

- Via the start menu;
- Via the Xemac icon on the desktop;
- Via Windows Explorer.

## 3.2. How to log into Xemac and change the password

X	Xemac Logon Production Version - 5.11 -							
c	earstream BEUTSCHE BÖRSE GROUP	1						
>	Kemac®							
	User ID Password							
	Log on Change Cancel Xemac Technical Hotline: +49 (0)69 211 - 11590							

After starting Xemac, the user sees the following Xemac logon screen:

Figure 5: Logon window

The user must log on with user ID and eight-digit password.

### 3. How to access the system

When assigning a user ID for the first time, Clearstream Banking provides the user with an **initial password**. It is required to change the password upon initial login. To change this password, the user will have to use the "Change..." button.

Х	Xemac Logon Production Version - 5.11 - 🗆 🗙
c	clearstream GROUP
2	Xemac®
	User ID 6335000783 New Password Repeat New Password Log on Return
	Xemac Technical Hotline: +49 (0)69 211 - 11590

#### Figure 6: Change password window

In the Change Password dialog, the new password must be entered twice. An error message will be issued if the password does not contain at least eight digits. A password change can be abandoned by clicking on the "Return" button.

A password is valid for **30 days**, after which Xemac will request the user to change the password. An error message is issued if the user tries to re-assign a password that was already used before.

The entries must be confirmed with the "Log on" button.

It is possible to abandon the Logon process with the "Cance" button.

Upon expiry of a password, the user will get an Error Message "Password expired, please change password" and will be directed to the "Change Password" dialog.

# 3.3. Security concept

A customised user profile can be assigned to each employee of the customer's institution.

The institution stipulates which sections of the Xemac main view can be accessed by an employee and which activity he is entitled to carry out for that section. The security administrator on the customer side assigns these access rights in the security system of Deutsche Börse Systems.

The following table provides an overview of the functions and their availability (depending on the icons):

Functions/Icons	Display	New	Edit/Adapt/ Adjust	Сору	Check	Confirm	Reject	Manual Allocation/ Release ª)	Delete
Contract Definitions	Х								
Client References	Х	Х	Х		Х		Х		Х
Contract Conclusions	Х	Х	Х	х	х	х	Х		х
Claims	Х	Х	Х		Х	Х	Х	Х	Х
Collateral	Х							Х	
Instructions	Х	Х	Х		Х		Х		Х

Table 2: Overview of the functions and their availability

<sup>a)</sup> A manual allocation/release instruction can only be given by users authorised to enter new instructions.

Any user can use the functions "Settings" and "Reports".

## 3.4. Opening hours

The overnight batch process performs several control functions. The collateral of the user is checked for eligibility and re-evaluated. Xemac subsequently checks whether all Claims are sufficiently covered. If necessary, additional collateral is allocated. If this is not possible, the global amount is reduced.

Xemac and all its functions are available as follows:

- Customers 07:00 until 17:45
- Deutsche Bundesbank 07:00 until 18:00
- Clearstream 06:30 until 18:10

## **3.5.** Overview of the essential steps

# 3.5.1. Notification of a global amount to Deutsche Bundesbank or to another NCB

Assumption: The Collateral Provider wants to notify Deutsche Bundesbank or a NCB (also any other Collateral Taker in a bilateral contract conclusion) of a global amount for the very first time. The required steps are described briefly as follows.

- 1. Xemac provides a Contract Definition with the Contract Definition type "NCB" as a basis for Contract Conclusions of customers with Deutsche Bundesbank. Basic definitions are made with regard to eligible securities collateral, haircut, allocation type, inclusion/exclusion of accrued interest, reusability and evaluation method.
- 2. Based on this Contract Definition, Deutsche Bundesbank enters a Contract Conclusion into the system. The Collateral Provider confirms this Contract Conclusion.
- 3. Then, a second employee of the Collateral Provider checks the confirmation of this Contract Conclusion.
- 4. The next step is to enter collateral in the collateral pool by way of credit instruction. This collateral is now available for allocation.
- 5. The Collateral Provider can now notify Deutsche Bundesbank of a global amount. He can enter a Claim with a corresponding global amount.
- 6. Another employee of the Collateral Provider will subsequently check this Claim.
- 7. Xemac allocates available collateral to this Claim from the Xemac pool of the Collateral Provider. The stipulated global amount is now collateralised.

The case is different if the Collateral Provider has structured his collateral pool using **Client References** or if he wants to notify Deutsche Bundesbank of a global amount on behalf of one of his clients for the first time.

- 1. The Contract Definition with Contract Definition type "NCB" provided by Xemac remains applicable.
- 2. The Collateral Provider refers to his clients or the internal structure of his collateral pool by allocating a Client Reference.
- 3. Based on the Contract Definition, Deutsche Bundesbank enters a Contract Conclusion into the system. As this Contract Conclusion refers to the client of the Collateral Provider and not his institution, the Client Reference must be added on confirmation.
- 4. Then, a second employee of the Collateral Provider checks the confirmation of this Contract Conclusion.
- 5. The next step is to enter collateral into the client's collateral pool by way of credit instruction. This collateral is now available for allocation.
- 6. The Collateral Provider can now notify Deutsche Bundesbank of a global amount on behalf of his client. Now he can enter a Claim with the corresponding global amount, stating the respective Client Reference.
- 7. Another employee of the Collateral Provider will subsequently check this Claim.
- 8. Xemac allocates available collateral to this Claim from the Xemac pool of the client. The global amount stipulated by his client is now collateralised.

### 3.5.2. Pledging Collateral in favour of Eurex

Assumption: The customer wants to provide Eurex with collateral via Xemac for the first time. The required steps are described briefly as follows:

- Xemac provides six Contract Definitions (Margin ICM, Collateralis. Eurex Clearing/Pledge, Eurex Reuse, Eurex Reuse Equity, Eurex Reuse EXTended and Eurex Reuse INT MXQ) with Contract Definition type "Eurex" as a basis for a Contract Conclusion with Eurex. The Contract Definition type defines eligibility and other valuation parameters besides permitting reuse of received collateral out of GC Pooling transactions.
- 2. Eurex enters a Contract Conclusion into the system, which the Collateral Provider must confirm.
- 3. Then, a second employee of the Collateral Provider checks the confirmation of this Contract Conclusion.
- 4. The next step is to enter collateral in the collateral pool by way of credit instruction. This collateral is now available for allocation.
- 5. Now the Collateral Provider can initiate a Claim in Xemac with a Claim Amount zero. This can subsequently be raised corresponding to the amount that has been pledged to Eurex as full or partial cover for margin requirements pursuant to its Risk Based Margining System.
- 6. Another employee of the Collateral Provider will subsequently check this Claim.
- 7. Xemac allocates available collateral to this Claim from the Xemac pool. The stipulated Claim Amount is now collateralised.

The Collateral Provider can structure his collateral pool using **Client References** if, for example, the collateral of individual divisions is required to be separately managed, in which case the procedure is slightly different:

- 1. The Collateral Provider relates to the structure of his collateral pool by assigning a Client Reference.
- 2. Based on the above-mentioned Contract Definition, Eurex enters a Contract Conclusion into the system. The Collateral Provider adds the respective Client Reference to the Contract Conclusion before carrying out the confirmation.
- 3. Then, a second employee of the Collateral Provider institution checks the confirmation of this Contract Conclusion.
- 4. The next step is to enter collateral into the collateral pool by way of credit instruction. This collateral is now available for allocation.
- 5. The Collateral Provider can now enter a Claim in Xemac using the respective Client Reference. The Claim Amount corresponds to the amount that the Collateral Provider has pledged to Eurex as full or partial cover for margin requirements pursuant to its Risk Based Margining System.
- 6. Another employee of the Collateral Provider will subsequently check this Claim.
- 7. Xemac allocates available collateral to this Claim from the Xemac pool. The Claim Amount stipulated by the Collateral Provider is now collateralised.

### 3.5.3. Participation in GC Pooling

Assumption: The customer wants to transact in Eurex Repoin the GC Pooling segment. The required steps to conduct this activity for the first time are described briefly as follows:

- 1. Xemac provides the Contract Definition type "Euro GC Pooling" as the basis for Contract Conclusions with Eurex Clearing AG.
- 2. The participant enters the Client Reference that is intended to be used for Repo trades. The participants **cannot** enter/modify the Clearer and Trader ID. The entry of a Segregated Account is mandatory for any EGC participant. A participant intending to deliver CBL securities must enter the Reservation Account and BIC Collateral Provider.
- 3. Clearstream user enters/modifies the Clearer and Trader ID as provided to the participating member by Eurex Clearing AG.
- 4. Eurex Clearing enters a Contract Conclusion into the system. This is confirmed by the participant using the dedicated Client Reference with the specified Clearer and Trader ID.
- 5. Clearstream user establishes a Claim of ZERO value between the intending participant to the trade and Eurex. The customer has to select the Claim Currency, which corresponds to the Basket he wants to trade on Eurex Repo.
- 6. The next step is to provide collateral to the "GC Pooling" collateral pool by way of credit instruction(s) with the dedicated Client Reference, specifically for the Repo seller (Collateral Provider). For participants intending to use CBL assets for EGC trades, there are two alternatives:
- 7. Enter credit instructions for assets with settlement location as CBL in Xemac (see section <u>5.7.3.3 "Instructions for CBL Settlement Location"</u> for more details); or
- 8. Enter manual Exposure Requests (see section <u>5.7.3.4 "Entry of manual Exposure</u> <u>Request"</u>) for a certain countervalue amount.
- 9. Correspondingly when assets are reflected in Xemac they are ready to be used in GC Pooling trades if the required eligibility criteria are met.
- 10. The securities are transferred from the account of the Seller to the Buyer through Eurex Clearing (CCP) automatically on subsequent processing. The blocking and transfer of the underlying assets from the seller to Eurex and onwards to the buyer corresponds to the counter value of the trade entered into by the participating members.

### 3.5.4. Participation in Collateral Management Secured Instruments

Assumption: The customer wants to issue financial instruments (for example, certificates) and collateralise them by pledging or appropriating securities to Clearstream as a fiduciary. The required steps are described briefly as follows:

- 1. Xemac provides a Contract Definition with the Contract Definition type "CMSI" as a basis for the Contract Conclusions of the customer with Clearstream.
- 2. Based on this Contract Definition, Clearstream enters a Contract Conclusion in the system. The customer as the Collateral Provider confirms this Contract Conclusion.
- 3. Then, a second employee of the Collateral Provider checks the confirmation of this Contract Conclusion.
- 4. The next step is to enter collateral in the collateral pool by way of credit instruction. This collateral is now available for allocation.
- 5. The Collateral Provider can now enter one or more Claims of ZERO value.
- 6. Another employee of the Collateral Provider will subsequently check these Claims.
- 7. The Collateral Provider can now use the automatically generated System Claim Number of each Claim and issue so-called Collateral Management Secured Instruments. The issued volume of those instruments (for example, certificates) will be collateralised within the entered Claims. The exposure will be automatically calculated by Clearstream on a daily basis.
- 8. Xemac allocates available collateral to these Claims from the Xemac pool of the Collateral Provider. The automatically calculated Claim Amount is now collateralised.

The customer can structure his collateral pool using **Client References** if, for example, he wants to manage collateral of individual divisions separately.

- 1. The Contract Definition with Contract Definition type "CMSI" provided by Xemac remains applicable.
- 2. The Collateral Provider relates to his clients or the internal structure of his collateral pool by allocating a Client Reference.
- 3. Based on the Contract Definition, Clearstream enters a Contract Conclusion into the system. As this Contract Conclusion refers to the client of the Collateral Provider and not his institution, the Client Reference must be added on confirmation.
- 4. Then, a second employee of the Collateral Provider checks the confirmation of this Contract Conclusion.
- 5. The next step is to enter collateral into the client's collateral pool by way of credit instruction. This collateral is now available for allocation.
- 6. The Collateral Provider can now enter one or more Claims of ZERO value, stating the respective Client Reference.
- 7. Another employee of the Collateral Provider will subsequently check these Claims.
- 8. The Collateral Provider can now use the automatically generated System Claim Number of each Claim and issue so called Collateral Management Secured Instruments. The issued volume of those instruments (for example, certificates) will be collateralised within the entered Claims. The exposure will be automatically calculated by Clearstream on a daily basis.
- 9. Xemac allocates available collateral to these Claims from the Xemac pool of the Collateral Provider. The automatically calculated Claim Amount is now collateralised.

# 4. Key functions and basic principles

## 4.1. Introduction

This chapter provides an introduction to the basic principles of Xemac:

- Versioning and status concept;
- Four-eyes principle; and
- Reciprocal confirmation.

These basic principles interlock and interrelate. The four-eyes principle and the reciprocal confirmation influence the version and the status. However, to further clarify, each principle will be explained separately.

The user will also encounter the following key functions of Xemac:

- Xemac eligibility of collateral;
- Collateral groups;
- Mark-to-market; and
- Allocation.

## 4.2. Versioning and status concept

There can be several versions with different statuses for:

- Contract Conclusions; and
- Claims.

The version of the Claim accepted by both Xemac partners is valid and collateralised by Xemac but the user's institution (as the provider of collateral) can generate a second version. If this version is accepted by both Xemac partners, it overwrites the previous version and becomes the valid version.

The Contract Definition with Contract Definition types "NCB", "Clearstream", "CMSI", "Euro GC Pooling" and "Eurex" are entered in the system using the four-eyes principle. However, the version of a Contract Definition can change. Only the responsible institute, that is, a NCB, Eurex or any other Collateral Taker can initiate the modification of a Contract Definition. The execution however, will be conducted directly by Clearstream on behalf of the Collateral Taker.

A status, but no version, is maintained for:

- Client References;
- Instructions;
- Allocation Instructions; and
- Exposure Requests.

The versioning and status concept is uniformly applicable except for Claims based on Contract Definition Type "CMSI": The version of those Claims will only be changed if the Claim value has changed.

## 4. Key functions and basic principles

### 4.2.1. Particularities with respect to Contract Conclusions

Only the responsible institute is authorised to modify Contract Conclusions. This is Deutsche Bundesbank for Contract Conclusions with Contract Definition type "NCB", "Clearstream" for Seurities Lending Contract Conclusions based on Contract Definition type "Clearstream" or Contract Conclusions with Contract Definition type "CMSI" Eurex for Contract Conclusions with Contract Definition type "Eurex" or "Euro GC Pooling", any other Collateral Taker for bilateral Contract Definitions (based on the Contract Definition "Clearstream").

If only a modification of "Own Contract Number" in the Contract Conclusion is intended, it can be done by a single user and does not require any confirmation by another user. Also, the version number does not undergo any change due to this modification.

### 4.2.2. Particularities with respect to Claims

The version is only increased by 1 for all activities that have to be confirmed by the counterparty.

If the user only changes his **Own Claim Number** and/or the **Comment**, the check by the user's institution and the confirmation through the counterparty are not carried out. A new version is not created. This also applies if the counterparty has only added or modified the **Own Claim Number**.

The system automatically increases the version of the Claim by 1 after processing if the Claim was in "Entry Confirmed Checked" status before being processed. After processing an existing Claim, there is another Claim in the system with the same Claim number but with a higher version (increased by 1). The original version can no longer be processed.

The functions available for a Claim depend on the Claim's status. For example, it is only possible to check Claims that have not yet been checked.

The user can check a Claim in "Entry Rejected" status even if he rejected this Claim. This allows the user to rectify an error or carry out the check having conferred with the person who entered the Claim.

Each user authorised to carry out deletions can delete the version of a Claim selected for deletion. The previous version with "Entry Confirmed Checked" status remains valid.

Xemac stores Claim versions with the status "Deletion Confirmed Checked" in the historical database. The previous blocked version will also be visible as a historical Claim.

The tabular views display the status of a Claim as described below.

The following table gives an indication about the changes in status linked to particular functions. The two right columns show who can see the Claim with the respective status, that is, only the person entering the Claim, only the Deutsche Bundesbank, Eurex or both.

## 4. Key functions and basic principles

Function	Description of status	Claim can be seen	Claim can be seen by		
		Person entering Claim	Collateral Taker		
New, Modify	Entry	Yes	No		
Check	Entry Checked	Yes	Yes		
Reject	Entry Rejected	Yes	No		
Confirm	Entry Checked Confirmed	No	Yes		
Reject	Entry Checked Rejected	No	Yes		
Check (confirmation)	Entry Confirmed Checked	Yes	Yes		
Reject (confirmation)	Entry Confirmed Rejected	No	Yes		
Check (rejection)	Entry Rejected Checked	Yes	Yes		
Reject (rejection)	Entry Checked Confirmed	Νο	Yes		

#### Table 3: Status display for entry of Claims

#### Table 4: Status display for deletion of Claims

Function	Description of status	Claim can be seen by		
		Person entering Claim	Collateral Taker	
Delete	Deletion Entered	Yes	No	
Check	Deletion Checked	Yes	Yes	
Reject	Deletion Rejected	Yes	No	
Confirm	Deletion Checked Confirmed	No	Yes	
Reject	Deletion Checked Rejected	No	Yes	
Check (confirmation)	Deletion Confirmed Checked	Yes	Yes	
Reject (confirmation)	Deletion Confirmed Rejected	No	Yes	
Check (rejection)	Deletion Rejected Checked	Yes	Yes	
Reject (rejection)	Deletion Checked Confirmed	No	Yes	

## 4.3. Four-eye principle

Certain functions in Xemac need to be checked, such as when status changes from "Entry" to "Entry Checked" or from "Entry Checked Confirmed" to "Entry Confirmed Checked". Such a check function increases the security and is supported by the four-eye principle. Xemac thus ensures that a Claim is not entered and checked by the same user of the Xemac participant.

The following are subject to the four-eye principle:

- Client References;
- Contract Conclusions;
- Claims;
- Exposure Requests; and
- Instructions.

The four-eye principle is explained below using a Claim with Deutsche Bundesbank as an example. This example illustrates that the four-eye principle impacts the **Version** and the **Status** of a Claim.

When the user with user ID 6335700037 wants to notify Deutsche Bundesbank of a global amount, the Claim will then be in "Entry" status. A second user 6335700040 will check this Claim, which will then have the "Entry Checked" status.

As long as a Claim is in "Entry" status, the Deutsche Bundesbank is unable to see it as the Claim has not yet been subjected to the four-eye principle.

The user has three business days (the day on which the Claim was entered and the following two days) to check an entered, processed or deleted Claim. The field "Collateralised from" is filled by Xemac with the date on which the Claim is checked.

After the check, the respective Claim is available at Deutsche Bundesbank for confirmation (the check from the Bundesbank side will always be performed automatically for new or increased Claims).

Xemac deletes the version in "Entry" or "Deletion" status during the morning process, if the check has not been carried out by the end of the day it was entered. If this was a newly created Claim, it will now no longer be in the system. If it was a modified Claim, the previous version remains valid. If it was a Claim in "Deletion" status, the Claim's previous version remains valid in the system.

### 4.3.1. Particularities with respect to Contract Conclusions

If the user's counterparty has only changed his **Own Contract No.**, the same applies as described in section <u>4.2.1 "Particularities with respect to Contract Conclusions"</u>.

### 4.3.2. Particularities with respect to Claims

If the user has changed only the **Own Claim No.** and/or the **Comment**, the same applies as described in section <u>4.2.2 "Particularities with respect to Claims"</u>.

This also applies if the counterparty has only added or modified the **Own Contract Number**.

### 4.3.3. Particularities with respect to Exposure Requests

An Exposure Request entered by one user needs to be validated by the second user. Details about Exposure Request are provided in section <u>5.7.3.4 "Entry of manual Exposure Request"</u>.

## 4.4. Reciprocal confirmation

Compared to the four-eye principle, the reciprocal confirmation does not support the check function within one Xemac participant but between two Xemac participants.

The following are subject to reciprocal confirmation:

- Contract Conclusions; and
- Claims.

A Claim with Deutsche Bundesbank will be used to explain the reciprocal confirmation. It will show the effects on version and status.

Xemac collateralises a Claim only after both Xemac partners have accepted it. In the first step, the Claim is both entered and checked by the institution entering the Claim. In the second step, the Claim is confirmed by the counterparty using the four-eyes principle. This confirmation and check can be carried out in two ways:

### 1. Manual confirmation and check

This is carried out when:

- Reducing the Claim Amount at Deutsche Bundesbank or any other Collateral Taker; and
- Deleting a Claim at Deutsche Bundesbank, Eurex or any other Collateral Taker.

#### 2. Automatic confirmation and check

This is carried out when:

- Creating a new Claim at Deutsche Bundesbank, Eurex or any other Collateral Taker;
- Increasing a Claim Amount at Deutsche Bundesbank, Eurex or any other Collateral Taker;
- Automatic modifications in net Claims take place due to Repo trades under Contract Definition type "Euro GC Pooling" and Claims in "Entry Checked Confirmed" status, "Entry Checked Rejected" status and "Entry Confirmed Rejected" status are being processed by the counterparty within the scope of the four-eyes principle, which is not yet concluded.

The user of the institution entering the Claims, will be able to view these Claims, but in the old "Entry Checked" status. Only after the counterparty has concluded the four-eyes principle the user will be able to see the Claim with the current and correct status "Entry Confirmed Checked" or "Entry Rejected Checked".

Contract Conclusions, which are not confirmed within three business days of their entry, will not be deleted, contrary to the deadline otherwise applicable. This enables the user to carry out the confirmation, rejection or check at leisure. It is the responsibility of the responsible institute to monitor this process.

It is important to know that all Claim processing activities (create, increase, reduce, delete and accept) towards GC Pooling are conducted on behalf of the Collateral Provider directly between Clearstream and Eurex Clearing.

The examples below describe the processing actions in non-GC Pooling Claims.

# 4.5. Examples

# 4.5.1. Example: Initial notification of global amount towards Deutsche Bundesbank

If the Collateral Provider confirms the entry of a Claim with "OK", Xemac will file this Claim in the system under a unique, own Claim system number with status "Entry" and version 1.

The following extract illustrates which functions create which version of the Claim with the System Claim Number 2017000001 and how the notion of status and version can develop.

Function	System claim number	Version	Status	Actor
New	2017000001	1	Entry	CP (User 1)

In this status, Deutsche Bundesbank has not yet been notified of the new global amount as the Claim has not yet been subject to the four-eyes principle by the Collateral Provider.

The next step is the second user check of the Collateral Provider. The check merely changes the status to "Entry Checked". The version remains however unchanged.

Function	System claim number	Version	Status	Actor
Check	2017000001	1	Entry checked	CP (User 2)

Now the Claim is in "Entry Checked" status. The very first generation of a Claim is the initial notification of a global amount, which Xemac will confirm automatically. Xemac sets the status to "Entry Checked Confirmed" in the first step and to "Entry Confirmed Checked" in the second step. The version remains unchanged.

Function	System claim number	Version	Status	Actor
Confirmation	2017000001	1	Entry checked confirmed	MASCHINELL
Check	2017000001	1	Entry confirmed checked	MASCHINELL

After these four steps only, the Claim entered by the Collateral Provider is accepted by Xemac on behalf of Deutsche Bundesbank and can be collateralised by Xemac.

## 4.5.2. Example: Reduction of a global amount

In order to explain the manual confirmation and check of a Claim Amount, it must be changed and the global amount reduced.

If the Collateral Provider has confirmed the changes made to the Claim with "OK", Xemac creates a new version of the Claim under the existing system Claim number where the new version is increased by 1. This version is given the "Entry" status.

Function	System claim number	Version	Status	Actor
Modify/Edit	2017000001	2	Entry	CP (User 1)

The next step is the check. This changes the status to "Entry Checked". The version remains unchanged.

Function	System claim number	Version	Status	Actor
Check	2017000001	2	Entry checked	CP (User 2)

As the change in this example was **the reduction of the global amount**, Deutsche Bundesbank must carry out a manual confirmation and check.

After successful confirmation, this version of the Claim is in "Entry Checked Confirmed" status.

Function	System claim number	Version	Status	Actor
Confirmation	2017000001	2	Entry checked confirmed	CT (User 1)

After the successful check, this version of the Claim is in "Entry Confirmed Checked" status. The version remains unchanged in each case.

Function	System claim number	Version	Status	Actor
Check	2017000001	2	Entry confirmed checked	CT (User 2)

After these four steps have been carried out, Deutsche Bundesbank also accepts the reduction entered by the Collateral Provider. Now Xemac can release allocated collateral so that only the reduced global amount is collateralised. Xemac transfers the previous version with the higher global amount into the historical database ("Historical Claims" view).

# 4.5.3. Example: Reduction of a global amount rejected by Collateral Provider

Function	System claim number	Version	Status	Actor
Modify/Edit	2017000001	2	Entry	CP (User 1)

What happens to the Claim if the User 2 of the Collateral Provider does not agree with the modified Claim? The Claim will be rejected instead of checked.

The Claim is now in "Entry Rejected" status. The version, however, remains unchanged.

Function	System claim number	Version	Status	Actor
Rejection	2017000001	2	Entry rejected	CP (User 2)

When User 1 and User 2 do not agree on the contents of the Claim, the two following scenarios can arise:

• Consequent to agreement on the Claim in its initial form, User 2 carries out the check. This changes the Claim's status to "Entry Checked". The version remains unchanged.

Function	System claim number	Version	Status	Actor
Check	2017000001	2	Entry checked	CP (User 1)

• If User 1 agrees with User 2 that the contents of the Claim need to be rectified then User 1 rectifies the error by changing the Claim. The Claim returns to "Entry" status. The version remains unchanged.

	System claim number	Version	Status	Actor
Modify/Edit	2017000001	2	Entry	CP (User 1)

User 2 now checks the modified Claim. This changes the status to "Entry Checked". The version remains unchanged.

Function	System claim number	Version	Status	Actor
Check	2017000001	2	Entry checked	CP (User 2)

# 4.5.4. Example: Reduction of a Global amount rejected by Deutsche Bundesbank

If Deutsche Bundesbank rejects the reduction made by the Collateral Provider to the global amount, this Claim will be in "Entry Rejected Checked" status.

Function	System claim number	Version	Status	Actor
Rejection	2017000001	2	Entry Rejected	CT (User 1))
Check	2017000001	2	Entry Rejected Checked	CT (User 2)

The Collateral Provider cannot see the rejection carried out by Deutsche Bundesbank; hence it is displayed in parentheses. After the rejection has been checked, the previous version of the Claim remains valid with the higher global amount.

Now the Collateral Provider can either delete the rejected version of this Claim or possibly change the amount after having agreed with Deutsche Bundesbank on a smaller reduction of the global amount.

## 4.6. Processing information

This section provides all information on the processing status of:

- A Contract Definition;
- A Client Reference;
- A Contract Conclusion;
- A Claim;
- An Exposure Request; or
- An Instruction.

The section "Processing Information" will be illustrated for the function "Claims". The section's structure is identical for all functions.

X		6335 - Displ	6335 - Display Claim					
Own Claim No.	633201	System Claim No.	2017	7000001 Version		71		
Own Contract No.		System Contract No.	2017	Version		1		
Xema	ic Partner	Claim Det	Claim Details Processing Information					
	Date		Time		User			
Entry	31/01/2017		10:12:32		6335700037			
Check	31/01/2017		10:12:50		6335700040			
Confirmation	31/01/2017		11:18:10		MASCHINELL			
Check	31/01/2017		11:18:10		MASCHINELL			
Authorisation								
Transaction Reference Message Reference								
						Close		

#### Figure 7: "Processing Information Claim" section

The first two rows of the processing information for a Claim contain information on the activities of the Collateral Provider; rows three and four contain information of the counterparty, that is, Deutsche Bundesbank, Eurex or any other Collateral Taker (even if these activities are carried out automatically like in the present case).

The following statuses are possible:

- Entry;
- Deletion;
- Check;
- Confirmation; or
- Rejection.

The statuses mentioned hereafter are also available for credits and debits:

- Transfer;
- Execution; or
- Rejection.

These statuses are described in section <u>4.6.5 "Special cases for instructions (Debits and Credits)"</u>.

The processing statuses are listed in the first column.

The columns **Date** and **Time** display the date and time when activities occurred. The user ID of the employee who performed the respective action is displayed in the column **User**. If Xemac performs an action, the column User will display "MASCHINELL" or "System". If the action is performed by CASCADE/T2S, then the column will still indicate "CASCADE". This is explained in details in sections <u>4.6.2</u>, <u>4.6.4</u> and <u>4.6.5</u>; that is, <u>"Special cases for Claims"</u>,

<u>"Special cases for Contract Conclusions</u>" and <u>"Special cases for instructions (Debits and Credits)</u>" respectively.

Intermediate processing statuses are not visible to the other Xemac partner. It is only after one party has concluded its activities by means of the four-eye principle that the other party can see the information. If, for instance, the Collateral Provider has entered a Claim, the Collateral Taker will only see the message after the entry of the Collateral Provider has been checked.

The first row of the processing information displays either **Entry** or **Deletion**. Further processing or the resulting display of processing info is identical for both statuses.

### 4.6.1. Example: Processing information "Claims"

Assumption: the Collateral Provider wants to reduce a global amount reported to Deutsche Bundesbank and change the respective Claim. The processing information will look like:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037

According to the four-eye principle, the reduction of the global amount must be processed by another user, who can either check or reject it. Depending on the outcome, **Check** or **Rejection** will be entered in the first column of the second row. In this example, the reduction is checked:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	08:10:10	6335000040

After the check, Deutsche Bundesbank can process the reduction of the global amount. From this point in time, Deutsche Bundesbank can view the processing information with both entries.

The reduction by the Collateral Provider can now be confirmed or rejected by a Deutsche Bundesbank employee. Depending on the outcome, Deutsche Bundesbank needs to perform certain actions:

#### <u>1. Case. The first Deutsche Bundesbank employee confirms the reduction of the global</u> <u>amount</u>

If the first Deutsche Bundesbank employee confirms the reduction of the global amount, the processing info will look like:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	08:10:10	6335000040
Confirmation	31.01.2017	10:05:11	7069555555

Only Deutsche Bundesbank can see the third row.

A second Deutsche Bundesbank employee must process this confirmation within the scope of the four-eye principle. This employee can either check or reject it. This is illustrated under a) and b):

#### 1a) The second Deutsche Bundesbank employee checks the reduction of the global amount

The reduction of the global amount by the Collateral Provider is accepted by Deutsche Bundesbank after the second Deutsche Bundesbank employee has checked it. Now the following processing information is displayed:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Confirmation	31.01.2017	10:05:11	7069555555
Check	31.01.2017	10:06:13	7069777777

#### 1b) The second Deutsche Bundesbank employee rejects the reduction of the global amount

If the second Deutsche Bundesbank employee rejects the reduction of the global amount, the four-eye principle was not conclusive. Only Deutsche Bundesbank can see the following processing information:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Confirmation	31.01.2017	11:11:11	7069555555
Rejection	31.01.2017	13:13:13	7069777777

After both employees have reached a common conclusion, the request by the Collateral Provider can either be checked or rejected irrevocably. If it is checked, **Check** will be entered into the fourth row:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Confirmation	31.01.2017	11:11:11	7069555555
Check	31.01.2017	13:13:13	7069777777

If the reduction has been irrevocably rejected by the Deutsche Bundesbank, the third row will display **Rejection** and the fourth row **Check**:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040

Function	Date	Time	User
Rejection	31.01.2017	11:11:11	7069555555
Check	31.01.2017	13:13:13	706977777

# 2. Case. The first Deutsche Bundesbank employee rejects the reduction of the global amount

If the first Deutsche Bundesbank employee rejects the reduction of the global amount, the processing information will look like this:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Rejection	31.01.2017	11:11:11	7069555555

Only Deutsche Bundesbank can see this information.

The rejection of a reduction of the global amount must also be processed by a second Deutsche Bundesbank employee, who can either check or reject it. This is illustrated under a) and b):

#### 2a) The second Deutsche Bundesbank employee checks the rejection of the reduction

If the second Deutsche Bundesbank employee checks the rejection of the reduction of the global amount, Deutsche Bundesbank has rejected it irrevocably. The Collateral Provider will be able to see the following processing information:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Rejection	31.01.2017	11:11:11	7069555555
Check	31.01.2017	13:13:13	7069777777

#### 2b) The second Deutsche Bundesbank employee rejects the rejection of the reduction

If the second Deutsche Bundesbank employee rejects the rejection of the reduction of the global amount, that is, both Deutsche Bundesbank employees disagree, the four-eyes principle was not conclusive.

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Confirmation	31.01.2017	11:11:11	7069555555

March 2022

Deutsche Bundesbank will now proceed as described for the first case, that is, another Deutsche Bundesbank employee must check or reject the confirmation, after which these activities are made transparent to the Collateral Provider.

### 4.6.2. Special cases for Claims

Contract Definitions with Contract Definition Types "NCB" or "Eurex" provide an automatic confirmation of Claims (in the case of the creation of a new Claim), an increase of the Claim Amount of an existing Claim and a reduction of a Claim Amount with Contract Definition Type "Eurex" pledged to Eurex.

This is how the processing information looks like after the increase of a Claim Amount has been entered and checked:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040

Increases in Claim Amounts are automatically confirmed and checked as the counterparty only registers the fact that he now is able to dispose of a higher, collateralised Claim Amount after the allocation of additional collateral.

The automatic confirmation and check by Deutsche Bundesbank is indicated by the entry "MASCHINELL" in **User** in the third and fourth rows. It means that the job is automatic and is performed by Xemac itself.

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Confirmation	31.01.2017	11:11:11	MASCHINELL
Check	31.01.2017	11:11:12	MASCHINELL

### 4.6.3. Special cases for Client References

Client references are maintained by the customer. The processing information for Client References consists of only two rows with the entries **Entry** and **Check**.

### 4.6.4. Special cases for Contract Conclusions

New and deleted Contract Conclusions are always processed by a counterparty under the four-eyes principle. The processing information is identical to that of the reduction of the global amount for Claims with Deutsche Bundesbank.

The control parameter **Contract Change Confirmation** is automatically pre-set in the Contract Conclusion. Changes made to the Contract Conclusion by the counterparty are thus confirmed and checked automatically.

## 4.6.5. Special cases for instructions (Debits and Credits)

After creating a new debit or credit instruction, or after processing and checking an existing instruction, it is transferred to the position-keeping system of CASCADE/T2S or Creation. **Date** and **Time** are identical to the respective values of **Check**. "OK" is entered as the **User**. The processing information now displays the following rows:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Transfer	31.01.2017	10:10:10	System

The instruction can either be executed or rejected. Depending on the outcome, either **Execution** or **Rejection** is displayed. CASCADE or Creation is respectively entered as **User** as the instruction is carried out in this position-keeping system.

If **Execution** was selected, the processing information looks like:

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Execution	31.01.2017	10:10:10	CASCADE

OR

Function	Date	Time	User
Entry	31.01.2017	08:08:08	6335000037
Check	31.01.2017	10:10:10	6335000040
Execution	31.01.2017	10:10:10	Creation

Additional information can be found in the status row of the respective full view.

## 4.6.6. Processing information for Claims

Claims will be used as an example to illustrate how the statuses are displayed in the processing information. The left column displays the function that initiated this status. The middle section of the table consists of four rows of processing information and shows their entries for each case. The right side indicates whether the Claim in its current status can be seen by the counterparty or by both of them.

Function	Displayinp	processinginfo		Display visible to		
	1. row	2. row	3. row	4. row	Collateral Provider	Collateral Taker
Enter	Entry				Yes	No
Check	Entry	Check			Yes	Yes
Reject	Entry	Rejection			Yes	No
Confirm	Entry	Check	Confirmation		No	Yes
Reject	Entry	Check	Rejection		No	Yes
Check (Confirmation)	Entry	Check	Confirmation	Check	Yes	Yes
Reject (Confirmation)	Entry	Check	Confirmation	Rejection	No	Yes
Check (Rejection)	Entry	Check	Rejection	Check	Yes	Yes
Reject (Rejection)	Entry	Check	Confirmation		No	Yes

#### Table 5: Status display for entered Claims

The only difference with the table for deleted Claims is that "Deletion" instead of "Entry" is entered in the first row.

If a deletion has been confirmed and checked, the Claim is no longer available.

## 4.6.7. Processing for Contract Definition Type "NCB"

#### 4.6.7.1. Initial notification of a global amount to the Deutsche Bundesbank

If a user wants to provide collateral, he must accordingly enter a Claim into the system with a respective global amount. After the check, Deutsche Bundesbank (Dt. Bbk) automatically confirms the Claim. Xemac then allocates eligible collateral to the Claim and reports the collateralised global amount to Deutsche Bundesbank.

The following table illustrates the sequence in which the required actions are carried out.

Step	Collateral Provider	Collateral Taker	Xemac
1	Enter Claim (User 1)		
2	Check Claim (User 2)		
3		Automatic confirmation of Claim (System)	
4			Allocate collateral (System)
5			Report collateralised global amount to Dt. Bbk

#### Table 6: Activities on entering a global amount for the first time

#### 4.6.7.2. Increasing global amount towards Deutsche Bundesbank

The procedure for increasing the global amount is the same as for an initial entry.

#### 4.6.7.3. Reducing global amount towards Deutsche Bundesbank

To decrease the collateral pledged to Deutsche Bundesbank, the Collateral Provider should reduce the global amount of the Claim. After checking the amendment, Deutsche Bundesbank will manually confirm the reduction. In this case, Deutsche Bundesbank carries out a manual confirmation as it first needs to make sure that no more than the newly reduced global amount is being used. Xemac releases the surplus collateral as soon as Deutsche Bundesbank has confirmed the reduction.

Step	Collateral Provider	Collateral Taker	Xemac
1	Modify Claim (reduce amount)		
	(User 1)		
2	Check Claim		
2	(User 2)		
3		Check global amount actually used	
4		Confirm Claim manually	
4		(User 1)	
5		Check confirmation of Claim	
5		(User 2)	
6			Release surplus collateral (System)
7			Report collateralised global amount to Dt. Bbk/Collateral Taker

#### Table 7: Steps for reducing global amounts

## 4.6.8. Processing for Contract Definition Type "Eurex"

#### 4.6.8.1. Entering a Claim Amount with Eurex

In order to provide Eurex with collateral, the customer enters a Claim with a correspondingly Claim Amount into the system.

Xemac will automatically carry out the confirmation after checking. Xemac then allocates eligible collateral to this Claim and reports the allocated collateral to Eurex.

The following table illustrates the sequence in which the required actions are carried out.

Step	Collateral Provider	Eurex	Xemac
1	Enter Claim		
1	(User 1)		
2	Check Claim		
2	(User 2)		
3		Automatic confirmation (System)	
4			Report Claim Amount to Eurex
5			Allocate collateral (System)
6			Report collateral allocated, to Eurex

#### Table 8: Activities for the initial notification of a Claim Amount to Eurex

#### 4.6.8.2. Increasing the Claim Amount towards Eurex

Increasing a Claim Amount is carried out in the same way as generating a Claim. Additional collateral allocations are reported to Eurex.

#### 4.6.8.3. Reducing the Claim Amount towards Eurex

The Collateral Provider can reduce collateral pledged to Eurex by reducing the corresponding Claim Amount. This reduction requires a confirmation from Eurex. Xemac automatically releases the surplus collateral as soon as Eurex confirms the reduction.

Step	Collateral Provider	Eurex	Xemac
1	Modify Claim (reduce amount)		
	(User 1)		
2	Check Claim		
2	(User 2)		
3			Report Claim Amount to Eurex
4		Authorise Claim Reduction	
5			Generate release instruction for surplus collateral (System)
6			Report collateral released, to Eurex

#### Table 9: Activities for the reduction of a Claim Amount

### 4.6.9. Processing for Contract Definition Type "CMSI"

At the onset, Clearstream will enter a Contract Conclusion based on the Contract Definition Type "CMSI", which the customer must confirm. The customer can use the same Client Reference to confirm more than one Contract Conclusion. For each Contract Conclusion, the customer as Collateral Provider can enter multiple Claims. The initial set-up of the Claim Amount to zero is solely the customer's responsibility. The automatically generated System Claim Number of the Claim will be used in the issuance process of a new collateral-secured instrument.

All processes are either automatic or executed by Clearstream. The customer is only required to keep the pool adequately collateralised

In the event of a CMSI Claim, the Claim Amount will be automatically calculated by Xemac twice a day. An exposure within Xemac between the Collateral Provider and Clearstream as fiduciary will represent the sum of the evaluated issued volumes of all underlying Collateral Management Secured Instruments as a product of positions and prices. The collateralisation of the Claim Amount will also be done by the system automatically.

## 4.6.10. Processing for Contract Definition Type "Euro GC Pooling"

After the required Contract Conclusion is established between the participant and Eurex Clearing, the Clearstream user creates an initial Claim of value zero in the corresponding currency and basket. All processes are either automatic or executed by Clearstream. The customer is only required to keep the pool adequately collateralised.

In the event of a Euro GC Pooling Claim, the Claim is impacted due to trades entered between participants and Eurex Clearing (being the Central Counterparty to all such trades). Upon receipt of instructions linked to a trade and subsequent cash confirmation, the Claim is revised to the resultant net Claim with Eurex Clearing with underlying changes in the respective version number. Whenever a participant enters into a Repo trade, the version of the resulting net Claim is incremented by 1. The previous Claim version is then moved to Historical Claims.

## 4.6.11. Processing for Contract Definition Type "Clearstream"

For this Contract Definition Type the same rules apply as for Contract Definition Type "NCB". More information can be found under section <u>4.6.7 "Processing for Contract</u> <u>Definition Type "NCB"</u>.

## 4.7. Securities eligibility for Xemac

Before a security can be entered into the collateral pool to use it as collateral, Xemac checks whether it meets certain quality standards with respect to:

- Status of security, that is, is the security active, already due or deleted;
- Securities group;
- Securities type; and
- Dates of maturity.

If a security meets the stipulated standards, it is deemed as eligible for Xemac.

A security may not be eligible for Xemac for the following reasons:

- The security is redeemed or no longer exists.
- The security is part of a securities group or securities type not accepted as collateral by Xemac.
- The security type has not been specified, that is, there is no information as to whether the instrument is an equity or investment fund, or a fixed-income or similar security.
- The security's remaining time to maturity is less than one day.
- There is no information on the dates for maturity and repayment.

Collateral can only be allocated to a Claim if the Collateral Taker, that is, Deutsche Bundesbank, Clearstream or Eurex, has defined the securities as eligible for collateralisation. Allocations in Xemac against any Claim of a participant or Client Reference can be done only from the eligible list of securities. These criteria are stipulated within the Contract Definitions (see section <u>5.1 "Contract Definitions are the basis for</u> <u>Contract Conclusions"</u>). Xemac maintains on-going verification that this criterion remains to be met for collateral already allocated to a Claim.

Below is a list of collateral groups set up in Xemac.

Neursber		view of available collateral groups in Xemac
Numbe r	Group name	Description
1	BBKSIP02	Deutsche Bundesbank securities pool 2
2	EAD BBK	Eligible Asset Database Deutsche Bundesbank (BBK)
3	EAD BDE	Eligible Asset Database Banco de España (BDE)
4	EAD BDF	Eligible Asset Database Banque de France (BDF)
5	EAD BDI	Eligible Asset Database Banca d'Italia (BDI)
6	EADCBF	EAD securities with Settlement Location CBF
7	EAD DNB	Eligible Asset Database De Nederlandsche Bank (DNB)
8	EADECB	Eligible Asset Database European Central Bank (ECB)
9	EAD NBB	Eligible Asset Database National Bank Belgium (NBB)
10	EUREX	Eurex Clearing Eligible Securities Database
11	EUREXGCP	GCP – EAD excl. non-approved Relayed Links and Close
11	EUREXOCF	Links
12	EUREX GCP CTDESP	GCP EUREX – Spanish Future Deliverables
13	EUREX GCP CTDFRA	GCP EUREX – French Future Deliverables
14	EUREX GCP CTDGER	GCP EUREX – German Future Deliverables
15	EUREXGCP CTDITA	GCP EUREX – Italian Future Deliverables
16	EUREX GCP EQUITIES	Eurex Equities GC Pooling Eligible Securities Database
17	EUREX GCP INT MXQ	GCP INT MXQ – Eurex Int. Maximum Quality Eligible Securities Database
18	EUREX GCPX	GCPX – EAD excl. Asset Type 03 (of Issuer Group 3+4) and 11
19	Index AEX	Amsterdam Exchange (AEX) Index
20	Index ATX	Austrian Traded Index
21	Index BEL 20	BEL 20 Index
22	Index CAC 40	CAC 40 Index
23	Index DAX 30	Index of 30 top German stocks
24	Index DJ Euro Stoxx 50	Index of the largest sector leaders in the Eurozone
25	Index IBEX 35	IBEX 35 Index
26	Index MDAX	MDAX Index
27	Index OMX Hel. 25	OMX Helsinki 25 Index
28	Index PSI 20	PSI 20 Index
29	Index SMI	Swiss MarketIndex (SMI)

#### Table 10: Overview of available collateral groups in Xemac

Xemac checks the quality requirements for collateral which have been already entered into the collateral pool. If collateral fails to be eligible, it cannot any longer be used to collateralise Claims. In such a case, Xemac tries to substitute the security with another from the collateral pool of the participant.

Securities held in CASCADE/T2S as well as in Creation can be used to provide collateral for GC Pooling or within the Xemac system. The assets eligible for GC Pooling can be obtained through the report "Eligible Securities per CDef" with respect to the individual settlement locations "CBF" and "CBL".

## 4.7.1. Contract Definition Type "NCB"

For Deutsche Bundesbank, the list of eligible assets with all relevant information, for example, issuer groups or asset types is downloaded on a daily basis from the Deutsche Bundesbank Extranet. Since the launch of Triparty Cross-border services in the Eurosystem, Deutsche Bundesbank acts additionally as a CCB (Correspondent Central Bank) in Xemac for other NCBs (National Central Banks). As each NCB might have different eligibility criteria to be applied by Xemac Deutsche Bundesbank provides one list of eligible securities per NCB to CBF via the Bundesbank Extranet.

As a result, the Contract Definition Type "NCB" is used for Deutsche Bundesbank claims as well as other NCB claims where Dt. Bbk acts as a CCB.

Additional securities and haircuts can be rendered eligible by defining them in the respective contract definition. It is important to note that, if an ISIN mentioned here also belongs to a security group, the evaluation of this ISIN would be based on the haircuts specified in the Contract Definition and not on the haircuts mentioned within the security group.

## 4.7.2. Contract Definition Type "CMSI"

The basis for the eligibility of securities for CMSI Claims represents the collateral group "EAD-CBF" (EAD securities with settlement location CBF). The Collateral Group is created based on the "File" provided to CBF via the Bundesbank Extranet.

## 4.7.3. Contract Definition Type "Euro GC Pooling"

The eligibility of securities for Euro GC Pooling Claims is based on the "Eurex Baskets Eligibility" file provided on a daily basis by Eurex Clearing "The securities eligible for the respective Contract Definitions are displayed in the "Eligible Securities per CDef" report. The following is the list of baskets and the relevant collateral groups:

Collateral Groups
EUREXGCP
EUREX GCP CTDESP
EUREX GCP CTDFRA
EUREX GCP CTDGER
EUREX GCP CTDITA
EUREXGCPX

#### Table 11: Collateral groups for the provision of collateral in GC Pooling

Collateral Groups
EUREX GCP EQUITIES
EUREX GCP INT MXQ

### 4.7.4. Contract Definition Type "Eurex"

For this Contract Definition, the eligibility is defined by Eurex as part of the Collateral Group "Eurex". For the Eurex Reuse Contract Definitions, the same evaluation and eligibility criteria apply as per the respective GC Pooling basket defined in the Contract Definition. This feature is called Home Basket Rule and is briefly described in the definition for "Evaluation Method" in section <u>5.1.3.3 "Contract Details" section</u>". Only the assets received within the respective basket are eligible for reuse (Exclusive reuse).

### 4.7.5. Contract Definition Type "Clearstream"

This Contract Definition is the basis for various bilateral claims (customer vs. customer) or securities lending related claims, where the counterparty is Clearstream (8261). The eligibility of securities may vary depending on the specific Contract Definition eligibility setup. The evaluation method "Clearstream" is used with prices delivered by external providers.

## 4.8. Mark-to-Market

## 4.8.1. Re-evaluation of collateral

Xemac evaluates the securities received as collateral at regular intervals. This procedure ensures that the determined collateral value reflects the selling price which could be fetched on collateral liquidation.

All prices must meet the quality requirements defined within Xemac eligibility and will be provided on a daily basis by the respective Contract Owner.

The price determination for securities collateral is carried out exclusively for eligible securities. Securities that are no longer eligible for Xemac are not valued and their prices (whether in percentage, per thousand or unit terms) will be set to zero.

Xemac displays the collateral value in the security's trading currency and in the Claim currency of the underlying Contract Definition. If trading currency and Claim currency do not match, the conversion is carried out in Euro.

Once a security is allocated to a Claim based on the Contract Definition "Euro GC Pooling", "Eurex", "Clearstream" or "CMSI", the price is visible in both the market value and the collateral value. By special request of the Contract Owner "Dt. Bbk", only the collateral value is displayed without any price information.

The evaluation of collateral does not take intraday volatility into account, as the contracting parties can control the collateral by means of haircuts or by stipulating collateral groups.

#### 4.8.1.1. Re-evaluation of collateral allocated in "NCB" claims

Xemac also evaluates securities on the basis of the requirement of NCBs and has to differentiate if the result of the re-evaluation, "Compulsory Claim Decrease" has been initiated due to changes in eligibilities and prices or due to upcoming Corporate Actions (particularly maturities and interest payments). For all claims based on Contract Definition Type "NCB" modifications in the "Morning Re-evaluation" process applies and two reevaluation processes are added in the evening after Xemac closure.

Based on these two new re-evaluation processes either a "Compulsory Claim Decrease due to Re-evaluation" and/or a "Compulsory Claim Decrease due to Corporate Action" is initiated by Xemac in cases when under-collateralised claims cannot be covered within the corresponding re-allocation processes. In order to inform the Dt. Bbk about the "Compulsory Claim Decreases" notification messages will be sent by Xemac.

If a claim is under-collateralised after the second re-evaluation due to corporate actions, a request is sent to the respective NCB to release the upcoming cash payment:

- If the respective NCB confirms the release, the cash proceeds are transferred to the customer at the earliest time possible.
- If the release is not granted by the respective NCB by 09:30 on the next business day then the suspended cash<sup>1</sup> proceeds will be paid-out (manually) to the Dt. Bbk.

In order to be able to identify for what reason the re-evaluation has taken place and also why the claim version has changed, it will be visible in the Claim overview in group-box "Additional Information".

🗙 7069 - Display Clai	im						
Own Claim No.		System Claim No.	20	06000001	Version		8182
Own Contract No.	5000013005	System Contract No	<b>.</b> 20	06000001	Version		4
Xema	c Partner	Claim I	)etails		Processir	ng Information	
Contract Data							
Own Contract No.	5000013005 🔻 <b>S</b>	ystem Contract No.	2006000001 🗸	Contr	act Version	4	-
Contract Name	BANK A B C D						-
Claim Data							
Own Claim No.							
Amount		3,754,856,817.95	Currency	EUR	1		-
Collateralised from	0	01/10/2013	Collateralised	d until			
Comment	DE00013						
Claim Control		Addi	tional Information				
GCP Reuse							
Automatic Clain	n Decrease Request	Inst	uction Reference / I	Event	Corp	oorate Actions	
Last Valuation Date & Time 02/10/2013 07:41:05							
Collateral Value	3,755,	,015,818.81 EUR	Cover Ratio			100.00 %	
							Close

#### Figure 8: Compulsory Claim Decrease

<sup>&</sup>lt;sup>1</sup> Suspended cash is cash blocked due to a corporate action, if the re-allocation of free, eligible collateral is not possible by the Collateral provider. Dt.Bbk is in this case authorised to keep this cash.

The field "Instruction Reference / Event" in the group-box "Additional Information" mirrors the reason for compulsory claim decrease and will contain the relevant information as below:

Reason for Compulsory Claim decrease	Instruction Reference / Event
Prices or ineligibility	Re-evaluation
Corporate Action	Corporate Action

Table 12: Reasons for Compulsory Claim Decrease

### 4.8.2. Calculation of Accrued Interest

The consideration of accrued interest is parameterised within the underlying Contract Definition:

Inclusive

Currently, Claims based on the Contract Definition types "NCB", "Euro GC Pooling", "CMSI", "Clearstream", and "Eurex" ("Eurex Reuse", "Eurex Reuse Equity", "Eurex Reuse EXTended", " or "Eurex Reuse INT MXQ") have the accrued interest component set up as part of the collateral value.

Exclusive

Claims based on the Contract Definition type "Eurex" ("Margin - ICM" or "Collateralis. Eurex Clearing/Pledge") have the accrued interest component set up as not part of the collateral value.

The calculation of accrued interest is only carried out when it is possible to determine an eligible price.

The determined interest income must reflect the interest in the event of collateral liquidation. This is why the calculation of accrued interest is always carried out for the valuation date even if an older price was referenced for the purpose of computing the overall Claim.

Accrued interest is displayed in the Claim currency. If the trading currency of the valued security differs from the Claim currency, the conversion is carried out in Euro. If it was not possible to determine any accrued interest, the **Accrued Interest** field is filled with "0,00" in the full view of the "Allocation" section.

## 4.9. Automatic Allocation/Release

One of the main tasks of Xemac is to allocate collateral provided by a Xemac participant to the respective Claims.

The allocation process represents the link between collateral and individual Claims and also serves to collateralise Claims.

A Contract Conclusion is always based on one of the Contract Definition types "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex". As a rule, these are set to "automatic" allocation.

If the Collateral Provider enters a new Claim in Xemac or increases the Claim Amount of an existing Claim, Xemac will automatically allocate collateral after automatic confirmation. This means that Xemac will allocate collateral from the collateral pool to the Claim accepted by the Collateral Taker. Similarly, when the Collateral Taker agrees to the reduction of the Claim Amount, Xemac will release surplus collateral so that only the reduced Claim Amount is collateralised.

Xemac checks the eligibility of allocated collateral on a daily basis and regularly checks the Claims on hand against the current value of the collateral. Xemac allocates additional collateral if Claims are under-collateralised due to price fluctuations. On the other hand, Xemac releases collateral if Claims are over-collateralised due to price appreciation.

There are other cases in which Xemac will release allocated collateral, such as redemption or ineligibility. If this results in under-collateralisation, the Claim Amount would be reduced for "NCB" Claims.

## 4.10. Manual Allocation/Release

## 4.10.1. Brief description

Xemac can be used to:

- Allocate collateral to a Claim (section <u>4.10.2 "How to manually allocate Collateral"</u>);
- Release collateral (section <u>4.10.3 "How to manually release Collateral"</u>); and
- Substitute collateral, that is, substitute allocated collateral with available, eligible collateral (section <u>4.10.4 "How to substitute Collateral"</u>)

The "Manual Allocation/Release" function can be used to allocate, release or substitute collateral in Xemac.

A substitution is a combination of allocation and release of collateral. Xemac enables the user to carry out a substitution within a single instruction that is, allocate new and release old collateral simultaneously.

If the customer wants to allocate collateral, for example, for an allocation instruction or for a substitution, he can either have Xemac select the collateral to be allocated automatically or he can carry out the selection manually.

After the manual allocation/release instruction has been entered, Xemac checks the feasibility. After this, the instruction must be checked by another employee of the customer's institution. Only after this check or confirmation will Xemac execute the instruction.

There are two ways to access the functions described below for the "Manual Allocation/Release":

- Access from "Claims" first, the required Claim must be selected from a tabular view
  of the function "Claim" -→ "Claim Amount" or "Claim Number". Using this view's
  context menu the function "Manual Allocation/Release" must be selected.
- <u>Access from "Allocated Collateral", "Collateral Positions" and/or "Collateral</u> <u>Overview"</u> (only for ISINs that are not free in the pool). After selecting a row with the required ISIN, the user must navigate from this view to the full view of the "Manual Allocation/Release" via the context menu.

## 4.10.2. How to manually allocate Collateral

This section describes how collateral can be manually allocated to a Claim. Please note that for GC Pooling claims collateral is **allocated automatically** and no manual allocation is required.

First, an **Instruction No.** must be assigned in the section "Instruction Data". The entered value must be between 1 and 799999. Comments up to 50 characters can also be entered.

🔀 6335 - New Manual Allo	ocation / Release						<u>- 0 ×</u>
Claim Amount	-25,000,000.0000	EUR	Relevant Claim Amour	nt	-2	5,000,000.0000	EUR
Overcollateralisation	67.5130	EUR	Overcollateralisation		67.5130	EUR	
Instruction Data	Allocate		Release	Xemac Pa	rtner	Processing In	formation
Instruction							
Instruction No.							
Comment							
Contract							
Own Contract No.			System Co	ntract No.	200500002	27	
Claim							
Own Claim No.	2727		System Clain	n No. 2005	000017		
Rejection							
No.	Reason						
						ок	Cancel

#### Figure 9: Manual Allocation/Release - "Instruction Data" section

It is possible to reassign the **Instruction No.** of an instruction that has been successfully executed.

The fields **Own Contract No., System Contract No., Own Claim No. and System Claim No.** display the respective information on the Contract Conclusion or Claim for which collateral is to be allocated or released.

Detailed information can be found on the contracting parties in the "Xemac Partner" section.

The following figure shows the "Allocate" section in the full view of "Manual Allocation/Release":

#### 🔀 6335 - New Manual Allocation / Release - 0 × **Claim Amount** -25,000,000.0000 EUR Relevant Claim Amount -25,000,000.0000 EUR Overcollateralisation 67.5130 EUR Overcollateralisation after Simulation 67.5130 EUR Instruction Data Allocate Release Xemac Partner Processing Information Eligible, free Collateral Settlement Location Type SIN Nominal Value Collateral Value DE000A161W54 CBF 510,000.000 500,450.11 DE000A1MLU59 CBF 11,000,000,000 11.529.070.81 2 DE000A1PGP19 CBF 14,900,000,000 15.021.542.52 3 E 4 DE000A1PGS08 CBF F 28 000 000 000 28 211 614 32 5 DE000A1R0709 CBF F 26,650,000,000 27 473 457 06 DE000A1R07T7 CBF E 45,000,000,000 45,619,782.57 6 DE000A1R07W1 CBF E 15,000,000.000 15.083.028.40 DE000A1RE1H2 CBF E 20,000,000.000 20,537,039.37 8 21 620 506 12 DE000A4V2E14/2 CDE 21 500 000 000 Selected Value Select Collateral to be allocated SIN Settlement Location Type Nominal Value Collateral Value OK Cancel

## 4. Key functions and basic principles

Figure 10: Manual Allocation/Release - "Allocate" section

The available free and eligible collateral can be displayed in the **Eligible, free Collateral** list box. Here, the individual positions are sorted in ascending order according to their securities identification number (German Securities Identification Code, ISIN, Common Code or Cusip).

The collateral to be allocated can be selected by clicking on the left mouse button.

The field **Selected Value** displays the nominal value of the position. If the Collateral Provider does not want to allocate the aggregate position, partial values can be selected. Therefore, the user must click in the **Selected Value** field and overwrite the existing value with the required nominal value. The nominal value must be a multiple of the "Multiple Quantity" and equal or greater to the "Minimum Denomination" of the respective security.

Pressing the "  $\checkmark$  " (select) button transfers the selected collateral with the corresponding amount to the **Collateral to be allocated** list box.

If several partial values have been selected to be allocated for the same security category, these values are summarised in the **Collateral to be allocated** list box.

Collateral can be removed in full or in part from the list of collateral to be allocated by selecting the required position in the **Collateral to be allocated** list box. If the user does not want to remove the entire position, the required nominal value must be entered in the **Selected Value** field. The selection is processed on pressing the "  $^{*}$ " (select) button.

Due to concurrent activities of other users, there may be a temporary change in the collateral pool due to which the collateral designated for allocation may no longer be available. An error message will then be issued. The entire instruction, that is, the allocation as well as the release, is rejected by Xemac and is labelled with the "Rejection" status in the processing info.

After confirming the entry of the instruction with "OK" ("Entry" status), the collateral selected for allocation can no longer be used for other allocations or removed from the collateral pool.

### 4.10.3. How to manually release Collateral

A release instruction can only be entered if there is no pending allocation instruction without PKS notification.

This section illustrates how allocated collateral can be released. After the release, the collateral is again available and eligible. It can be used to cover other Claims or it can be removed from the pool. Xemac releases collateral only if the Claim is still sufficiently covered.

First, an **Instruction No.** must be assigned in the "Instruction Data" section. The entered value must be between 1 and 799999.

The fields displayed in the header are for reference purposes only. The calculation is carried out in the Claim currency. The fields **Claim Amount** and **Relevant Claim Amount** always refer to the underlying Claim in "Entry Checked Confirmed" status.

The **Relevant Claim Amount**, in a "Euro GC Pooling" Claim shows the Claim including the Claim Amount Premium. For example, where the Claim is 100 and the Claim Amount Premium is 1%, the **Relevant Claim Amount** displays 101 whereas the **Claim Amount** displays 100.

Claim Amount       -25,000,000,0000       EUR       Relevant Claim Amount       -25,000,000,0000       EUR         Overcollateralisation       67,5130       EUR       Overcollateralisation after Simulation       67,5130       EUR         Instruction Data       Allocate       Release       Xemac Partner       Processing Information         Own Profile	🔀 6335 - New Manua	l Allocat	tion / Release						
Instruction Data       Allocate       Release       Xemac Partner       Processing Information         Own Profile	Claim Amount		-25,000,000.0000	EUR	Relevant Claim Amour	nt	-2	5,000,000.0000	EUR
Own Profile         Participant       6335       Name       ABC Bank         Client Reference       BLZ       60050000 ACC       1234567         Client       AB C AB C       Client Reference       Client Reference         Counterparty       Participant       7063       Name       DEUTSCHE BUNDESBANK         Client Reference       Client Reference       Client Reference       Client Reference	Overcollateralisatio	on	67.5130 EL		Overcollateralisation after Simulation		67.5130		EUR
Participant       6335       Name       ABC Bank         Client Reference       BLZ       60050000 ACC       1234567         Client       AB C AB C         Counterparty         Participant       7069       Name         DEUTSCHE BUNDESBANK         Client Reference       Image: Client Reference	Instruction Data		Allocate		Release	Xemac Pa	rtner	Processing Ir	formation
Client A B C A B C Counterparty Participant 7069 Name DEUTSCHE BUNDESBANK Client Reference		335	Name	A	BC Bank				
Participant 7069 Name DEUTSCHE BUNDESBANK Client Reference						1234567			
Client Reference									
Client	Participant	706			DEUTSCHE BUNDES	BANK			
OK Cancel			Client					or	Canad

Counterparty detailed information can be found in the "Xemac Partner" section:

Figure 11: Manual Allocation/Release - "Xemac Partner" section

The "Release" section can be used to release allocated collateral. The Release tab shows "Releasable Nominal Value" and "Releasable Collateral Value" columns:

Clain	n Amount	-25,000,000.00	00 1	EUR Relevant Clai	im Amount		-25,000,000.0	0000	EUR
Over	collateralisation	67.5130		EUR Overcollateralisation after Simulation			67.5	5130	EUR
Ins	struction Data	Allocate		Release	Xem	ac Partner	Process	ing In	formation
lloca	ted Collateral								
	SIN	Settlement Location	Туре	e Nominal Value	Collateral Value	Availab	le Nominal	A	ailable Co
1	DE000A0AEDB2	CBF	E	110.800.000.000	25,009,309,90		110,800,000,000		
2	DE000HV2J7R3		E	40,000,000.000			40,000,000.000		
3	DE000LFA1495	CBF	E	11,011,000.000	and the second sec		11,011,000.000		
4	DE000NWB0AA4	CBF	E	15,703,000.000	and the second se		15,703,000.000		
5	DE000NWB15F7	CBF	E	20,000,000.000	20,561,551.17		20,000,000.000		
6	DE000NWB16F5	CBF	E	18,997,000.000	20,034,268.86		18,997,000.000		
7	DE000NWB16P4	CBF	E	7,000,000.000	7,074,676.92		7,000,000.000	-	
	ted Value			Select			Substitution / Au	itoma	
elec	ted Value						Substitution / Au	itoma	
	· · · · · · · · · · · · · · · · · · ·	Settlement Location		Select	Collateral Value	Date	Substitution / Au	itoma	tic Selecti

Figure 12: Manual Allocation/Release - "Release" section

The collateral allocated to the Claim can be viewed in the **Allocated Collateral** list box.

Here, the individual positions are sorted in ascending order according to their securities identification number (in the current example, the ISIN). This facilitates the search for specific collateral among a larger number of collateral positions. The collateral to be released can be selected by clicking with the left mouse button. If only a partial amount of the allocated collateral is to be released, the **selected value** can be overwritten with the required partial amount. The nominal value must be a multiple of the "Multiple Quantity" and equal or greater to the "Minimum Denomination" of the respective security.

Pressing the "  $\checkmark$  " (select) button transfers the selected collateral with the corresponding amount to the **Collateral to be released** list box.

After selecting the positions to be processed, the amount by which the Claim would be over-collateralised or under-collateralised is displayed in the **Over-collateralisation after Simulation** field or **Under-collateralisation after Simulation**.

This enables the user to check how much collateral can still be released.

If several partial values set for release for a security, have been selected, these values are summarised in the "Collateral to be released" list box.

Collateral can be removed in full or in part from the list of collateral to be released by selecting the required position in the Collateral to be released list box. If required, partial amounts can be entered in the Selected Value field. The selection is processed on pressing the "  $^{ a}$ " (select) button.

It is important to know that it is always the Releasable Nominal and Releasable Collateral Value fields that are carried forward to the Collateral to be released list box.

Xemac will reject the substitution instruction where such a substitution would lead to an under-collateralisation of the Claim.

If the window is closed with the "Cancel" button, the entries will not be saved.

The instruction must always be checked by another employee of the Collateral Provider.

### 4.10.4. How to substitute Collateral

This section describes how collateral can be manually substituted in a "Manual Allocation/Release instruction".

After selecting the positions to be processed, the amount by which the Claim would be over-collateralised or under-collateralised is displayed in the header of the **Overcollateralisation after Simulation** or **Undercollateralisation after Simulation** field. This enables user to check how much collateral can still be released or how much collateral should still be allocated for a manual selection.

As in the case of entering a release or allocation instruction, the user must first assign an **Instruction No.** in the "Instruction Data" section. The entered value must be between 1 and 799999.

Detailed information on the contracting parties can be found in the "Xemac Partner" section.

Both sections mentioned and the respective procedures are described in detail in section <u>4.10.3 "How to manually release Collateral"</u>.

The choice is available as to whether Xemac shall automatically select the collateral to be allocated or whether the selection should be carried out manually.

If the user wants Xemac to automatically select the collateral to be allocated, the **"Substitution/Automatic Selection"** checkbox in the "Release" section should be checked.

Clair	n Amount	-25,000,000.00	00	EUR Relevant Cla	im Amount		-25,000,000.00	00	EUR
Over	collateralisation	67.51	30	EUR Overcollateralisation after Simulation			67.51	30	EUR
In	struction Data	Allocate		Release	Xen	nac Partner	Processin	g Inf	formation
lloca	ited Collateral								
	SIN	Settlement Location	Тур	e Nominal Value	Collateral Value	Available	Nominal	Av	ailable Co
1	DE000A0AEDB2	CBF	E	110,800,000.000	25,009,309.90	11(	0,800,000.000		
2	DE000HV2J7R3	CBF	E	40,000,000.000	40,114,800.00		0.000		
3	DE000LFA1495	CBF	E	11,011,000.000	9,968,405.37	1	1,011,000.000		
4	DE000NWB0AA4	CBF	E	15,703,000.000	15,737,001.88	1	5,703,000.000		
5	DE000NWB15F7	CBF	E	20,000,000.000	20,561,551.17	20	0,000,000.000		
6	DE000NWB16F5	CBF	E	18,997,000.000	20,034,268.86	1	3,997,000.000		
7	DE000NWB16P4	CBF	E	7,000,000.000	7,074,676.92		7,000,000.000		
			r						
elec	ted Value			Select		⊮ Su	bstitution / Aut	oma	0
elec		Settlement Location		Select	Collateral Value	✓ Su Date	Ibstitution / Aut	oma	0
	eral to be released	Baseline and the second sec	Typ	Select	Collateral Value 40,114,800.00			oma	0
elec	eral to be released	Baseline and the second sec	Typ	Select e Nominal Value		Date	Time	oma	tic Selecti

Figure 13: Manual Allocation/Release - "Release" section - automatic selection

An error message will be issued if the user has already selected collateral manually for allocation or if this is selected after activating the checkbox.

The instruction is entered as soon as the "OK" button is pressed. The required collateral for allocation is now earmarked.

If an instruction for substitution is entered manually, it makes no difference whether the collateral to be allocated is selected in "Allocate" section first, or whether the required collateral to be released is first earmarked in the "Release" section.

The entry of the substitution instruction has to be concluded with the button "OK"

- After the collateral to be released has been selected; and
- When Xemac is to select the collateral to be allocated by activating the **Substitution/Automatic Selection** checkbox or the collateral has been manually selected in the "Allocate" section.

As soon as the "OK" button has been pressed, Xemac will change to the tabular view from where the "Manual Allocation/Release" function was initiated.

After entering the substitution instruction, the collateral selected for allocation can neither be used for other allocations nor be removed from the collateral pool. This can only be done after the respective instruction has been rejected and then deleted.

If the window is closed with the "Cancel" button, the entries will not be saved.

Due to concurrent activities of other users, there may be a temporary change in the collateral pool such that the collateral designated for allocation may no longer be available. An error message will then be issued. The entire instruction, that is, the allocation as well as the release, is rejected by Xemac and is labelled with the "Rejection" status in the processing info.

March 2022

The substitution instruction must always be checked by another user at the customer's institution. Only after this check or confirmation will Xemac carry out the substitution instruction and substitute the allocated collateral. The user is now able to make use of the released collateral.

## 4.10.5. Manual Allocation/Release in GC Pooling Claims

The following points are important for consideration if the user is a participant in a "GC Pooling" Claim and wants to carry out a Manual Allocation/Release:

- Collateral is **allocated automatically** and no manual allocation is required.
- A security release is always accompanied by an "Automatic Substitution". The manual "Release" of an ISIN locked in a Euro GC Pooling Claim is possible only if the participant has free Euro GC Pooling eligible ISIN(s) of equivalent Collateral Value. In this case, the substitution checkbox is automatically checked. Likewise, a release is not possible, even if the Claim is over-collateralised, without offering free ISIN(s) of equivalent value of the requested release.

### 4.10.6. Xemac views of Allocation Instructions

Xemac provides predefined views for displaying instructions for the automatic/manual allocation or release. These views can be accessed via the "Allocation Instructions" icon.

#### 4.10.6.1. Tabular view: "Historical allocation instructions"

This view displays all manual and automatic allocation/release instructions in "Entry Confirmed Checked" status.

For instructions generated in GC Pooling contracts, the Comment field displays values:

Value	Description
Alphanumerical number	Unique Repo Identifier of GC Pooling Trades
CUSTODY REDEMPTION	Releases made due to upcoming corporate actions
EGC-POOL-SUBS	Substitutions made by the new automatic reuse substitution
EGC-POOL-REALLOC	Instructions generated due to the daily claim revaluation
User entered	Comments, if any, entered by user to , for example, release (substitution) an ISIN

#### Table 13: Overview of values in the Comment field of GC Pooling Allocation Instruction

The Instruction Type field carries the type of instruction entered either manually or by the system. The various types included are "Allocation", "Release", "Substitution" and "Change of Direction".

The "Change of Direction" allocation type is applicable only in cases of GC Pooling Claims. It is visible for instructions that result in a Collateral Provider becoming Collateral Taker, in a net Claim, or vice versa. In such cases, the current allocations to a Collateral Taker are released back to Eurex before making further allocations from the Collateral Taker (who now becomes Collateral Provider). Similarly, all existing allocations from a Collateral Provider to Eurex are released back to the Collateral Provider's pool before further allocations are made from the side of Eurex to this participant, who has now become a taker in the net Claim. For example:

50 Million (mn) worth of Collateral Value of securities is transferred in the pool from Eurex due to a Repo Trade; the instruction type is "Allocation". The Net Claim here is 50 mn.

If the customer now enters into another trade of 70 mn as Repo Seller, the existing allocations (collateral value 50 mn) are released to Eurex and additional allocation of 20 mn is made to Eurex, whereby the net Claim becomes (-) 20 mn from 50 mn. The instruction by which the release of 50 mn and allocation of 20 mn takes place is classified as "Change of Direction" in the "Historical Allocation Instructions" view.

#### 4.10.6.2. Tabular view: "Status Not Checked"

This view displays all unchecked allocation (or release) instructions entered by the Collateral Provider.

It also displays instructions that are generated due to "GC Pooling" trades and which are pending reuse substitution settlement or cash confirmation by the counterparty. Such instructions are visible in this view in "Entry" status.

#### 4.10.6.3. Tabular view: "Rejected Allocation Instructions"

This view displays all Allocation/Release instructions that have been rejected by the Settlement platforms.

X		6335 - Rejected Allocation Instructions												
Alloca	ocation Instruction View Output Columns													
	Options ease select value	> •	•									•	- Reset	Filter
•2	System Claim No.	Participant No.	Instruction No.	Instruction Type	(Automatic) Substitution	Client Reference	Client	Instruction Status	Rejection Reason	Comment	Date of Entry	Settlement Date	Processing Time	Link Reference
1	2011000013	6335	53	Release				Rejected - Insufficient holdings		EGC-POOL-REALLOC	23/01/2017	23/01/2017	12:38:20	

#### Figure 14: Rejected Allocation Instructions

#### 4.10.6.4. Tabular view: "Allocation instructions without PKS notification"

Allocation instructions that have been sent by Xemac to a position-keeping system, that is, CASCADE/T2S or CmaX/Creation, but no feedback (settlement confirmation) has been received from the respective position-keeping system.

The respective allocation instruction must be selected from a tabular view. The full view can be accessed via the context menu of this view. The "Status" row provides the user with further information on the current status of entered instructions. How to view existing manual allocation/release

The Claim Amount, Relevant Claim Amount, Overcollateralisation and Overcollateralisation after Simulation fields show values only as long as notification from the position-keeping system has not yet been issued. The respective values refer to the current version of the Claim. The fields could be labelled Undercollateralisation instead of Overcollateralisation, and Undercollateralisation after Simulation instead of Overcollateralisation after Simulation.

The collateral selected for allocation is displayed in the Collateral to be allocated list box in the "Allocate" section. The Eligible, Available Collateral list box is empty.

The collateral selected for release is displayed in the Collateral set for release list box in the "Release" section. The Allocated Collateral list box is empty.

## 4.10.7. How to check a manual allocation/release

Entered allocations and releases must both be checked within three business days of their entry. Otherwise, these instructions will be deleted.

The "Check" function is used for this purpose. The respective instruction must be in "Entry" or "Rejection" status. It will not be possible for the user to check instructions that have already been generated or modified by his institution. The user can select multiple lines and check them at once.

An allocation or release can be checked using the "Status Not Checked" tabular view of the "Allocation Instructions" function. The required row must be selected, right-clicked and "Check" selected. Xemac will change to the full view of the "Manual Allocation/Release". The Check will be confirmed by pressing "Yes" in the "Instruction to be checked?" dialog window provided by Xemac.

By confirming the check with "Yes", the instruction is in "Entry Checked" status.

An error message is issued if part of the instruction (allocation or release) cannot be executed. In this case, the entire instruction is labelled as deficient.

If the check is terminated by pressing "No", the selection is not saved.

### 4.10.8. How to reject a manual allocation/release

A manual allocation/release instruction can be rejected as long as it is in "Entry" status and has not been created or modified by the same user.

An allocation/release can be rejected using the "Status Not Checked" tabular view of the "Allocation Instructions" function. The required row must be selected and Xemac will change to the full view of the "Manual allocation/release". User can select multiple lines at once. The rejection will be confirmed by pressing "Yes" in the "Instruction to be rejected?" dialog window provided by Xemac.

By confirming the rejection with "Yes", the instruction is in "Entry Rejected" status.

If the rejection is terminated by pressing "No", the selection is not saved. The instruction remains in "Entry" status.

If a rejected instruction is not checked within three business days of its rejection, it will be deleted.

### 4.10.9. How to delete a manual allocation/release

The "Delete" function enables user to delete:

- Newly created instructions that have not yet been checked; or
- Rejected instructions ("Entry Rejected" or "Deletion Rejected" status).

A newly created but not yet checked instruction can be deleted by all Xemac user profiles.

The "Manual allocation/release" full views are described in sections <u>4.10.2 "How to</u> <u>manually allocate Collateral"</u> and <u>4.10.3 "How to manually release Collateral"</u>. All fields are output fields and filled according to the entry options described in the above-mentioned sections.

The "OK" button is replaced by the "Delete" button in the full view for the deletion.

Xemac deletes the instruction after the deletion has been confirmed by pressing the "Delete" button.

If the function is closed with "Cancel", the instruction data still has to be checked.

## 5.1. Contract Definitions are the basis for Contract Conclusions

## 5.1.1. Brief description

Xemac can be used to:

- Provide collateral for money market interventions of the ESCB. For that purpose, the user enters into an agreement with Deutsche Bundesbank;
- Pledge securities to Eurex as full or partial cover for margin requirements pursuant to the exchange's Risk Based Margining System;
- Provide collateral to meet cash clearing requirements associated with the CBF STD night-time settlement processing;
- Participate in the cash-driven GC segment with a huge amount of ECB/Bundesbank eligible securities in the standard GC Pooling ECB Basket, selected equities out of indices HDAX, Euro Stoxx 50, DAX 30, CAC 40, AEX 25 in the GC Pooling Equity Basket, around 10,000 eligible securities in the GC Pooling ECB Extended basket, GC Pooling INT MXQ Basket with eligible securities issued by central banks, central governments and supra-nationals in non-EUR currencies and latest introduced GCP CTD Baskets which contains Government Bonds for each dedicated Market (Germany, France, Italy, Spain). Customers can execute Overnight (ON), Tomorrow Next (TN) and One Week Tender harmonised with ECB Tender Term.

Xemac offers various Contract Definitions that are the basis for creating a Contract Conclusion and this section explains how those Contract Definitions can be displayed.

## 5.1.2. Views in Xemac

#### 5.1.2.1. Third-Party Contract Definitions: Contract Definitions of Deutsche Bundesbank ("NCB"), Clearstream ("Clearstream" and "CMSI") and Eurex ("Eurex" and "Euro GC Pooling")

The tabular view contains all Contract Definitions for which the user is not the **Responsible Institute**.

For responsible institutes (Deutsche Bundesbank, Clearstream or Eurex), the Contract Definition will be displayed with Contract Definition type "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex".

#### 5.1.2.2. Own Contract Definitions

The tabular view is exclusively made available to the Collateral Takers (Deutsche Bundesbank, Clearstream and Eurex Clearing AG or bilateral takers). The Collateral Provider can also double-click on this field but the resulting screen will be empty.

#### 5.1.2.3. Eligibility Check

The view enables the user to query a specific SIN and display all contract definitions where the SIN is eligible.

Responsible Institute         Contract Definition No         Version         Name of Contract Definition         SIN         Securities Description         Haircut (%)         Settlement Location CBL         LLI           70769         1         5Devtsche Bundesbark         DEContract Definition         DEContract Definition         10/Yes         Yes											
Responsible Instatute         Contract Definition No.         Of Contract Definition         Name of Contract Definition         SN         Securities Description         Hairout (%)         Settlement Location CBL         Linu           1980         Definition No.         of Contract Definition         Contract Definition         DEGINGUMPPP2         LBBW         6013         1.00 Yes         Yes         375           7000         201100004         Of Contract Definition         DEGINGUMPPP2         LBBW         6013         1.00 Yes         Yes         375           7252         202000001         Allbereign m. Best übertrag w. EuGOPX         DEGINGUMPPP2         LBBW         6013         1.00 Yes         Yes         375           3251         1         201100005         I Clearathram Scuttifies Lending         DEGINGUMPPP2         LBBW         6013         1.00 Yes         Yes         3261         1         100 Yes         Yes         3261         1         Yes         406							ABC Bank		6335		artici
Responsible         Contract         Version         Name         SN         Securities Description         Haircod (%)         Settlement Location CBF         Settlement Location CBF		_							IQINI		do
Responsible         Contract         Version         Name         SN         Securities Description         Hairont (%)         Settlement Location CBF         Location CBF         Sett									IOIN		10
Definition No         Or Contract Definition         Name of Contract Definition         Name of Contract Definition         Securities Description         Hatrod (%)         Settlement Location CBL         LL           7059         1         Speudsche Bundesbank         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         727           7250         1         7/Ubereign m Bestüchertage ELGCP         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         372           7252         1         7/Ubereign m Bestüchertage ELGCP         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         725           7252         1         7/Ubereign m Bestüchertage ELGCP         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         726           7252         200800000         SUbereign m Bestüchertage ELGCP         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         726           200800000         SUbereign m Bestüchertage ELGCP         DE000 ENVOPP2         LBBW         0613         1.00/vs         Yes         162           8229         5         1         Clearatream CMS0         DE000 ENVOPP2         LBBW         0813         1.00/vs         No											
Institute         Definition No.         of Contract Definition         Statument (N)         Setument (N)         Set	Check										
7500         201100004         1 (caliterials: Eurers Clearing/Piedge         DE00L0WPP2         LBBW         0013         17.00/vs         Yes         372           7525         1         7/00ersjon.m. Best/ubertagiv. EuCOP         DE00L0WPP2         LBBW         0013         1.00/vs         Yes           7525         200800001         8/0Dersign.m. Best/ubertagiv. EuCOPX         DE00L0WPP2         LBBW         0013         1.00/vs         Yes           8261         1         2/0eastream-Scum2e         Lendrug         DE00L0WPP2         LBBW         0013         1.00/vs         Yes           8261         5         1 (Casartseam CLMSC         DE00L0WPP2         LBBW         00413         1.00/vs         No           8261         5         1 (Casartseam CLMSC         DE00L0WPP2         LBBW         0613         1.00/vs         No           8261         2011000005         1 (Cleastream CLMSC         DE00L0WPP2         LBBW         0613         1.00/vs         No	Limit						of Contract Definition		t Version n No. of Contract Definiti	Defin	Re Ins
7525         1         7/Übereign m. Bestübertrag w. EuGCP         DE000LBW0PP2         LBBW         0913         1.00/Yes         Yes           7525         200800001         8/Übereign m. Bestübertrag w. EuGCPX         DE000LBW0PP2         LBBW         0813         1.00/Yes         Yes           8281         1         22/Clearstream Securities Lending         DE000LBW0PP2         LBBW         0813         1.00/Yes         Yes           8281         5         1/Deastream CMSC         DE000LPW0PP2         LBBW         0813         1.00/Yes         No           8281         201000005         1/Deastream CMSC         DE000LBW0PP2         LBBW         0813         1.00/Yes         No           8281         201000005         1/Deastream CMSC         DE000LBW0PP2         LBBW         0813         1.00/Yes         No			Yes Y	1.00							
7525         200690001         Bilbereign         Restluertagiv         EuCCPX         DcpOLPMPP2         LBBW         0613         1.00/vs         Yes           8261         1         20/cleastream Acuities         Londing         DcpOLD.UWOPP2         LBBW         0613         1.00/vs         Yes           8261         5         1/cleastream Acuities         Londing         DcpO0LDWOPP2         LBBW         0613         1.00/vs         No           8261         5         1/cleastream AUSC         DcpO0LDWOPP2         LBBW         0613         1.00/vs         No           8261         201000005         1/cleastream AUSC         DcpO0LDWOPP2         LBBW         0613         1.00/vs         No	375,000,000		Yes Y	17.00							
8261         1         29         Clearstream Securities Lending         DE000LEWOPP2         LBRW         0813         1.00/Yes         Yes           8261         5         1.Clearstream CMSC         DE000LEWOPP2         LBRW         0813         1.00/Yes         No           8264         2011000005         1.Clearstream CMSC         DE000LEWOPP2         LBRW         0813         1.00/Yes         No           8264         2011000005         1.Clearstream CMSI         DE000LEWOPP2         LBRW         0813         1.00/Yes         No						E000LBW0PP2	übertrag w. EUGCPY	8 Übereign, m. Best ü		7525 2	-
8251 5 10Carsteam CMSC DE00LBW0PP2 LBBW 06/13 1.00/Yes No 8251 201100005 10Carsteam CMSI DE00LBW0PP2 LBBW 06/13 1.00/Yes No							inities Lending	29 Clearstream Securi			
8261 2011000005 1 Clearstream CMSI DE000LBW0PP2 LBBW 08/13 1.00 Yes No					08/13	E000LBW0PP2					
8281         2012000002         1(Diearstream CMS) 2         DE000LBW0PP2         LBBW         08/13         1.00/Yes         Yes		No	Yes N	1.00	08/13	E000LBW0PP2	1	1 Clearstream CMSI	1000005	8261 2	
			Yes Y	1.00	08/13	E000LBW0PP2	12	1 Clearstream CMSI 2	2000002	8261 2	

#### Figure 15: Eligibility Check

#### Table 14: Field description of "Eligibility Check" window

Eligibility Check Wir	ndow	
Name	Fieldstatus	Description
Participant	Output	This field displays the Xemac own participant number.
[Participant Name]	Output	The name of the institution is displayed here.
Code	Output	This field contains the code as defined in the settings (German Securities Identification Code, ISIN, Common Code and Cusip).
SIN	Mandatory Entry	The securities identification number of the security must be entered here.
[Security Name]	Output	Here the security description is displayed.
[Embedded table]	Output	The table shows the Contract Definitions for which the requested security is eligible with the following columns: Responsible Institute, Contract Definition No., Version of Contract Definition, Name of Contract Definition, SIN, Securities Description, Haircut (%), Settlement Location CBF, Settlement Location CBL and Limit.

The user must enter a SIN in the format displayed in "Code" field. After pressing the "Check" button, the Contract Definitions for which the security is eligible will be displayed in the table below.

The window can be closed by pressing the "Close" button.

### 5.1.3. How to display a Contract Definition

It is necessary to change to the full view of the Contract Definition from the tabular view as described in sections <u>2.3.1 "Tabular view"</u> and <u>2.3.2 "Full view"</u>. Here, the user can view the selected Contract Definition.

The following pages list the necessary sections shown in the "Display" function. All fields are output fields.

#### 5.1.3.1. "Identification" section

esponsible Institute	70	069 Contrac	t Definition No.		1 Version	n
Identification	ľ	Eligibility	r	Contract Details	Proce	essing Information
sponsible Institute	_	7069				
ntract Definition No.	_	1				
me	Deutsche Bu	ndesbank				

Figure 16: Contract Definition - "Identification" for Deutsche Bundesbank (NCB) section

X 7525 - Display Contract D	Definition						_ 🗆 🗵
Responsible Institute	7525	Contract De	finition No.		1 Versio	n	1
Identification	E	ligibility	C	ontract Details	Proc	essing Information	
Responsible Institute	75	525					
Contract Definition No.		1					
Name	Übereign. m. Best	übertrag w. EuGC	P				
Contract Definition Type	Euro GC Pooling						
Code	ISIN						
Basket SIN	DE000A0AE077	EU	REX REPO E	O GC ECB EAD			
Basket	EGCP						
							Close

Figure 17: Contract Definition - "Identification" for Eurex (Euro GC Pooling: EGCP basket) section

Contract Definition Header							
Name	Field status	Description					
Responsible Institute	Output	This field displays the participant number of the responsible institute, for example Deutsche Bundesbank.					
Contract Definition No.	Output	Older Contract Definitions are single- digit numbers, it is always ten digits. It starts with the current year followed by an incremental number of Contract Definitions for that year per customer (for example, "2017000001").					
Version	Output	Starts with the number "1" and increments thereafter.					

Table 15: Field description of	of "Contract	Definition"	window - Header

"Identification" section		
Name	Fieldstatus	Description
Responsible Institute	Output	This field displays the participant number of the responsible institute, that is Dt. Bbk.
Contract Definition No.	Output	Described as above
Name	Output	This field displays the name assigned to the Contract Definition by Clearstream Banking.
Contract Definition Type	Output	This field displays the underlying Contract Definition type. These are "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex".
Code (only "Euro GC Pooling")	Output	This field contains the code as defined in the settings (German Securities Identification Code, ISIN, Common Code and Cusip).
Basket SIN (only "Euro GC Pooling")	Output	The basket security identification number for Contract Definition type "Euro GC Pooling" (for example, ISIN DE000A0AE077 (EGCP) or DE000A0WKKX2 (EGCP Extended) or DE000A1EZNP6 (GCP Equities) or DE000A1PHUP5 (INT MXQ) or DE000A2GG7U2(CTDESP) or
		DE000A2GG7V0 (CTDFRA) or
		DE000A1PHUN0 (CTDGER) or
		DE000A2GG7W8 (CTDITA)
		is displayed here.
Basket(only "Euro GC Pooling")	Output	This field displays the basket short name (for example, "EGCP", "EGCPX", "GCP Equities", "GCP INT MXQ", "CTDESP", "CTDFRA", "CTDGER" or "CTDITA" ).

#### Table 16: Field description of "Contract Definition" window - section" Identification"

#### 5.1.3.2. "Eligibility section"

There are different eligibility norms for securities earmarked for Deutsche Bundesbank (Contract Definition type "NCB") and Eurex Clearing AG ("Eurex" and "Euro GC Pooling").

Details are listed below.

esp	ponsible Institute		7069	Con	udorbonin	tion No.		1	Version		7
	Identification		El	igibility		Co	ntract Details		Processir	ng Inform	ation
aila	able Collateral Grou	ips					Included C	ollateral	l Groups		
	Group Na	ame						G	roup Name		Haircut (9
2	EAD BBK		Eligible A	sset 🔺	P	dd	1 EAD E		ioup Humo		0.0
	EAD BDE		Eligible A	sset 📄			1 2.2.2				
-	EAD BDF		Eligible A	sset							
	EAD BDI		Eligible A								
	EAD CBF		EAD secu		Rei	nove					
	EAD DNID		THE ALL AND A								
-	EAD DNB		Eligible A	sset 👻	1001	liere					
air	III III III III III III III III III II	222200					Included I		Securities	Location	Lioirout (
air clu	III rcut uded Individual Sec SIN	urities Settle	Eligible A	on				ndividual SIN	Securities Settlement	Location	Haircut (%
air clu	III rcut uded Individual Sec SIN BE6222243816	CBF					Included In			Location	Haircut (9
clu	III Ided Individual Sec SIN 3E6222243816 3E6222243816	CBF CBL		on			Included I			Location	Haircut (9
air clu	III rcut SIN BE6222243816 BE6222243816 BE622243816 BE62224387279	CBF CBF CBL CBF		on			included in			Location	Haircut (9
lair clu E	III rcut SIN BE6222243816 BE622243816 BE622243816 BE6225487279 BE6225487279	CBF CBF CBF CBF CBL		on			Included II			Location	Haircut (9
air clu E E	III rcut SIN BE6222243816 BE622243816 BE622243816 BE6225487279 BE6225487279 BE6226915971 DE6226915971	CBF CBF CBL CBF CBL CBF CBL CBF		on e			Included II			Location	Haircut (9
	III aded Individual Sec SIN BE6222243816 BE622243816 BE62225487279 BE6225487279 BE6225487279 BE6225487279 BE6225487279	CBF CBF CBL CBF CBL CBF CBL CBF		on			Included I			Location	Haircut (9
	III rcut SIN BE6222243816 BE622243816 BE622243816 BE6225487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487274 BE625487274 BE625487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE7554877474 BE7554877474747474747474747474747474747474	CBF CBL CBF CBL CBF CBL CBF	ement Locati	on e				SIN			
lair clu E	III rcut SIN BE6222243816 BE622243816 BE622243816 BE6225487279 BE6225487279 BE6226915971 DE6226915971	CBF CBL CBF CBL CBF CBL CBF		on e						Location	
air clu E	III           uded Individual Sec           SIN           BE6222243816           BE6222243816           BE6222243816           BE6222243816           BE6225487279           BE6225487279           BE6226915971           DE6225487274           BE6226915971           DE6225487274	CBF CBL CBF CBL CBF CBL CBF	ement Locati	on e				SIN			
	III rcut SIN BE6222243816 BE622243816 BE622243816 BE6225487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487279 BE625487274 BE625487274 BE625487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE755487274 BE7554877474 BE7554877474747474747474747474747474747474	CBF CBL CBF CBL CBF CBL CBF	ement Locati	on e				SIN			
air clu E E E	III           uded Individual Sec           SIN           BE6222243816           BE6222243816           BE6222243816           BE6222243816           BE6225487279           BE6225487279           BE6226915971           DE6225487274           BE6226915971           DE6225487274	CBF CBL CBF CBL CBF CBL CBF	ement Locati	on e				SIN			

Figure 18: Contract Definition – "Eligibility" section for Deutsche Bundesbank (NCB)

		7500	Contract D	efinition No.	2011000003	Version	1
Identifica	ition	Eliç	gibility	Cor	ntract Details	Processing In	nformation
vailable Collatera	al Groups				Included Collatera	l Groups	
Gr	oup Name			······································	(	Group Name	Haircut (
1 BBK SIPO2		Deutsche	Bun 🔺	Add	1 EUREX	and approach to the second sec	0.
2 EAD BBK		Eligible As	set 💻				
3 EAD BDE		Eligible As	set				
4 EAD BDF		Eligible As	set				
5 EAD BDI		Eligible As	set	Remove			
6 EAD CBF		EAD secur	rities 🚽 👘				
					SIN	Settlement Loc	auon nancut (
Add		Remove			Add		Remove

Figure 19: Contract Definition - "Eligibility" section (Eurex)

	onsible Institute		7525	Contrac	t Definition No.	1	Version	14
	Identification		Eli	igibility		Contract Details	Processing I	Information
aila	able Collateral Grou	ips				Included Collate	eral Groups	
	Group Na	ame					Group Name	Haircut (%
1	3BK SIPO2		Deutsche	Bun 🔺	Add	1 EUREX GO	den contra	0.0
2	EAD BBK		Eligible A	sset 😑	2	- London		0.0
3	EAD BDE		Eligible A	sset				
-	EAD BDF		Eligible A					
-	EAD BDI		Eligible A		Remove			
5 1	EAD CBF		EAD secu	urities 🗸		÷.		
						1		
		A.S. M.						
	Add		Remove			Add		Remove
	ssues							
	xcluded							

#### Figure 20: Contract Definition - "Eligibility" section (Euro GC Pooling Classic)

This section determines the collateral groups and/or specific securities defined by the respective Collateral Taker as eligible. For a Collateral Provider, the underlying securities eligible for a Claim are displayed in the view "Collateral Pool Value" (and can also be saved in Excel). More details are available in section <u>5.6.4 "Collateral Pool Value view".</u>

"Eligibility" section	"Eligibility" section						
Name	Fieldstatus	Description					
Available Collateral Groups	Output	This field shows a list of all available collateral groups in Xemac.					
Included Collateral Groups	Output	This field shows which collateral groups are defined as "Eligible" for this Contract Definition with the corresponding haircut.					
Haircut	Output	Notused					
Excluded Individual Securities	Output	Here, individual securities are listed which are explicitly excluded and therefore not eligible for this Contract Definition, although they might be a part of an included collateral group.					
Included Individual Securities	Output	Here, individual securities are listed along with the haircuts which are explicitly included as "Eligible" for this Contract Definition, although they might not be a part of an included collateral group.					

Table 17: Field description of "Contract Definition" window - "Eligibility" section

"Eligibility" section							
Name	Field status	Description					
Own Issues	Output	It detects and excludes Own Issues for Contract Definition Type Eurex and Euro GC Pooling.					

#### 5.1.3.3. "Contract Details" section

Responsible Institute	7	069 Contract D	efinition No.	1	Version	9
Identification	Y	Eligibility	Co	ntract Details	Processing Info	ormation
Allocation Type Pledge Appropriation	dge O Transfer			GCP Reuse <ul> <li>Not Permitted</li> <li>Permitted</li> <li>Exclusively (T</li> </ul>	Basket EGCF	
Full transfer of title for GC Accrued Interest Valuation Claim Amou Inclusive		of title for GC Pooling s Claim Amount Premiu	n	Automatic      Evaluation Method      Common Eurosys		
O Exclusive			%	Home Basket	for GCP Reuse	
Time to Maturity				Concentration Lin		

Figure 21: Contract Definition – "Contract Details" section (NCB)

Responsible Institute	7500	Contract Definitio	n No. 2011000006	Version	2	
Identification	Elig	ibility	Contract Details	Processing In	formation	
llocation Type			GCP Reuse			
Pledge O	Transfer		O Not Permittee	1		
	transfer of title Transfer External		O Permitted	Basket EGC	P E	
	transfer of title fo	r external use	Exclusively (T	ransferred securitie	es only)	
-		r GC Pooling securitie	O Automatic	O Automatic		
ccrued Interest Valuation	Claim An	nount Premium	Evaluation Metho	d		
Inclusive		%				
C Exclusive			Home Basket	for GCP Reuse		
ime to Maturity			Concentration Lin	nit		
none			🗌 Limit Overall			
Ione			Limit per Clea	arer		

Figure 22: Contract Definition – "Contract Details" section (Eurex Reuse)

Responsible Institute	752	5 Contract Def	inition No.	1	Version	14
Identification	r	Eligibility	C	ontract Details	Processing Info	ormation
Allocation Type Pledge Appropriation	<ul> <li>Transfer</li> <li>Full transfer of ti</li> <li>Transfer Ext</li> <li>Full transfer of ti</li> <li>Transfer EG(</li> </ul>	ernal tle for external use		GCP Reuse Not Permitted Permitted Exclusively (T Automatic	Basket	s only)
Accrued Interest Valuatio		Ull transfer of title for GC Pooling securities Claim Amount Premium 1.00 %		Evaluation Method Eurex Clearing GC Pooling		
C Exclusive				Home Basket	for GCP Reuse	
Time to Maturity				Concentration Limit		

Figure 23: Contract Definition – "Contract Details" section (Euro GC Pooling)

Details on the Contract Definition with the Contract Definition type "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex" are displayed in this section.

"Contract Details" section						
Name	Field status	Description				
Allocation Type	Output	<ul> <li>"Pledge" and "Appropriation"<sup>2</sup> for Contract Conclusion having Contract Definition type "NCB", "Clearstream", "CMSI" or "Eurex" (With the CD-Type "Eurex", Appropriation stands for a "Full Title Transfer");</li> </ul>				
		<ul> <li>"Transfer" for transfer of securities to a CCB (Cash Correspondent Bank);</li> </ul>				
		<ul> <li>"Transfer External" for Transfer of securities between international customers;</li> </ul>				
		• "Transfer EGC" for transfer of securities corresponding to trades in GC Pooling.				
Claim Amount Premium	Output	This value for this field is NULL for Contract Definitions with Contract Definition type "NCB", "Clearstream", "CMSI" or "Eurex".				
		For "Euro GC Pooling" this field contains a specific value as shown in the Figure above. It displays the required percentage of collateral that needs to be added to a Claim in order to be fully collateralised.				
		Thus, if the value is 1, then, for a Claim of 100, the provider must provide collateral worth 101. The cover ratio will, however, not consider this as additional collateral. So, in this case, if the Claim is 100 and collateral provided is 101 (due to the 1% Claim Amount Premium), the cover ratio will be 100% and NOT 101%.				
Accrued Interest Valuation	Output	The parameter "Accrued Interest Valuation" is used to calculate the collateral value. Where specified within the Contract Definition, interest accrued after the latest interest payment will be added to the bond price for valuation purposes.				
Time to Maturity	Output	Defined per Contract Definition.				

Table 18: Field description of "Contract Definition" window - "Contract Details" section

<sup>&</sup>lt;sup>2</sup> For Contract Definition type, for example, "Eurex", the selection of the allocation type "Appropriation" represents a declaration of intent to transfer the title/right of the respective securities for security purposes to Eurex Clearing.

"Contract Details" sec	tion	
Name	Field status	Description
GCP Reuse	Output	Depending on selection it allows or restricts the reuse of securities out of GC Pooling.
		<ul> <li>Not Permitted - reuse of securities is not allowed.</li> </ul>
		<ul> <li>Permitted - reuse is allowed for "E" and "T" securities.</li> </ul>
		<ul> <li>Exclusively - reuse allowed only for "T" securities.</li> </ul>
		• Automatic - flagged for Contract Definition "Euro GC Pooling", underlining the fact that received securities will be reused within GC Pooling automatically for other trades.
Evaluation Method	Output	This parameter defines the evaluation method used for the securities allocation. This feature enables use of external files from Collateral Takers defining prices and haircuts of eligible assets to be used for the evaluation within the Claims. Evaluation Methods:
		<ul> <li>"Common Eurosystem Pricing Hub" used for Claims based on Contract Definition Type "NCB";</li> </ul>
		<ul> <li>"Eurex Clearing" used for Claims based on Contract Definition Type "Eurex";</li> </ul>
		<ul> <li>"Eurex Clearing GC Pooling" used for Claims based on Contract Definition Type "Euro GC Pooling";</li> </ul>
		<ul> <li>"Clearstream" used for Claims based on Contract Definition Type "Clearstream".</li> </ul>
		Home Basket for GCP reuse - The flag determines if the evaluation of T securities should follow the same criteria as applicable within the (home) GC Pooling Claims.
Concentration Limit	Output	The Concentration Limit is a limit per security defined by Eurex Clearing to be allowed for allocation in the Claim.
		<ul> <li>"Limit Overall" – applies for Claims based on Contract Definition Type "Eurex" where a GC Pooling Reuse is "Not Permitted".</li> </ul>
		<ul> <li>"Limit per Clearer" – applies for Claims based on Contract Definition Type "Euro GC Pooling" for Equities only.</li> </ul>

## 5.2. Save client data as Client References

Client References are necessary if the user is active in Xemac on behalf of underlying financial institutions. In this case, each underlying institution can be labelled by assigning a Client Reference.

Assigning Client References allows the user to structure the collateral pool. This enables individual divisions to manage the collateral of the underlying entities separately.

### 5.2.1. Brief description

The Client Reference consists of two main tab pages - "Client Data" and "Settlement Data".

On the "Client Data" tab, the "Institute Type", "Institute Reference", "Custody Account Type", "Custody Account Reference", "Client" and "Comment" fields can be entered. Relevant screens are available in section <u>5.2.3.1.1 ""Client Data"</u>.

On the "Settlement Data" tab, the fields required to support the collateralisation of GC Pooling trades are entered. Relevant screens are available in section 5.2.3.1.2 "Settlement Data".

### 5.2.2. Views in Xemac

Xemac provides a range of predefined views that cannot be altered.

The views that can be used to display Client References are described below.

#### 5.2.2.1. Current Client References

This view contains all the client data that has already been checked and made available to the user for assigning within Claims and Contract Conclusions.

#### 5.2.2.2. Status not checked

This tabular view contains all the client data that still has to be checked. These are Client References that have been:

- Entered but not yet checked ("Entry" status);
- Processed but not yet checked ("Entry" status);
- Deleted but not yet checked ("Deletion" status) or
- Rejected ("Entry Rejected" or "Deletion Rejected" status).

The last modified user ID of the user is captured as User in the Client Reference.

#### 5.2.2.3. Historical Client References

This view contains the information of the historical Client References that were created and subsequently modified or deleted.

#### 5.2.2.4. Issuer Link

Eurex sends to Xemac the Issuer Link file on a daily basis. The file contains information about the Issuer Number, Clearer ID and Trader ID for each Client Reference. Based on this information, Xemac is able to determine, if the security is or is not an Own Issue for specific Client Reference.

The following columns are included in the tabular view:

- Issuer No.;
- Issuer Name;
- Clearer ID;
- TraderID;
- Participant No.;
- Participant Name;
- Client Reference
- Client;
- Reservation Account.

Client	Client Reference View Output Columns								- 0 X	
	Rer Options Infrance satisfyables * * * * Reset Filter									
<b>P</b>	Issuer No. 123456	Issuer Name ABC BANK	Clearer ID ABCDE	Trader ID ABCDE	Participant No. 6335	Participant Name ABC BANK	Client Reference	Client	Reservation Account 12345	

Figure 24: Tabular view – Issuer Link

### 5.2.3. Processing Client References

#### 5.2.3.1. How to create new Client References

New client data can be created with the "New" function.

#### 5.2.3.1.1 "Client Data" Tab

The field MFI ID2<sup>3</sup> needs to be filled for customers with Claims based on Contract Definition Type "NCB", that is, allocations in favour of the Eurosystem, to identify close link assets.

Xemac will check during allocation whether an ISIN is ineligible for the respective MFI ID or whether a higher (own use) haircut needs to be applied for allocations in favour of the Eurosystem.

The MFIID can be obtained by customers from the respective National Central Bank used as counterparty for the Claim.

There are two ways of entering Client References:

- 1. Identification per institution as displayed by the Institute Type and Institute Reference fields;
- 2. Identification per custody account as displayed by the Custody Account Type and Custody Account Reference fields.

In both groups, the fields can be filled in the following way:

It is possible to enter a BIC code (BIC), a bank code (BLZ) or an account number (ACC) in the Institute Reference or Custody Account Reference field. The corresponding code ("BIC§, "BLZ" or "ACC") must be entered in the Institute Type or Custody Account Type field.

<sup>&</sup>lt;sup>3</sup> Unique code which identifies each MFI (Monetary Financial Institution); published on ECB website (https://www.ecb.europa.eu/stats/money/mfi/html/index.en.html).

X 6335 - New Client Referen	ce			
Participant 633	ABC BANK			Version
Client Data		Settlement Data	Proc	cessing Information
Client Reference				
Institute Type	-	Institute Reference		
Custody Account Type	•	Custody Account Reference		
Client				
MFIID				
Comment				
Date				
Creation				
Deletion				
				OK Cancel

#### Figure 25: Client References - "Client Data" section

There are four user configurable possibilities (listed below) for referencing a client, of which the first is the system-generated default option:

No.	Institute Type	Institute Reference	Custody Account Type	Custody Account Reference	
1	Blank	Blank	Blank	Blank	
2	Blank	Blank	BIC,	According to custody account	
			BLZ or	type	
			ACC		
4	BIC,	According to	Blank	Blank	
	BLZ or	institute type			
	ACC				
5	BIC,	According to	BIC,	According to custody account	
	BLZ or	institute type	BLZ or	type	
	ACC		ACC		

#### Table 19: Possibilities for referencing a client

Institute Type	Digits of Institute Reference	Custody Account Type	Digits of Custody Account Reference
BIC	8 or 11 (alphanumerical)	BIC	8 or 11 (alphanumerical)
BLZ	8 (numerical)	BLZ	8 (numerical)
КТО	1 to 11 (numerical)	КТО	1 to 13 (numerical)

#### Table 20: Existing plausibility while entering Client References

A Client Reference is also required, even if the user is active exclusively for his own institution. This is the so-called "empty" or blank Client Reference. In this Client Reference, none of the above fields is filled. The system automatically creates a blank Client Reference; the user does not need to create it explicitly.

If, for instance, a user is acting on behalf of another bank (which is connected to his institution) with the bank code 12345678, this Client Reference can be represented by **Custody Account Type** "BLZ" and **Custody Account Reference** "12345678".

The following table shows the pre-filled fields of the "Client Data" section with the input possibilities for each field.

"Client Data" section		
Name	Field status	Comment
Participant	Output	This field displays the Xemac user participant number.
(Participant Name)	Output	The name of the user institution is displayed here.
Institute Type	Optional entry	If the Institute Type field is filled, the respective value must be entered here. The Bank Identifier Code (BIC), the bank code (BLZ) or an account number (ACC) may be entered here. This field can also be left blank. The possible options are shown via a choice list. If this field is empty, the Institute Reference field must also be blank.
Institute Reference	Optional entry	It is possible to create the field individually according to own criteria when creating a Client Reference. The field can also be left empty.
Custody Account Type	Optional entry	The BIC, BLZ or ACC may be entered here. This field can also be left empty. However, if this field is empty, the field Custody Account Reference must also be blank.
Custody Account Reference	Mandatory Entry	If the Custody Account Type field is filled, the respective value must be entered here. Alternatively, it is possible to create the field individually according to own criteria when creating a Client Reference.
Client	Optional entry	User can assign a name to the Client Reference in this field.
		Mandatory when Claims based on Contract Definition Type "NCB" exist.
MFIID	Optional entry	Users have to enter MFIID agreed with respective National Central Bank.
Comment	Optional entry User can enter additional information on the Client Reference in this field.	
(Date) Creation	Output	Filled with the date of creation when checked by the second user (four-eyes principle).
(Date) Deletion	Output	Filled with the date of deletion when successfully deleted (four-eyes principle).

#### "Settlement Data" Tab 5.2.3.1.2

- If a Xemac participant has enabled the "Auto Provisioning" flag within a Client Reference, Xemac is allowed to generate an Exposure request on behalf of the participant in order to balance Claim under-coverage or to satisfy GC Pooling trades.
- The flag "Automatic Return" enables the participant to automatically return free CBL assets from the Reservation Account to the collateral Source Account in Creation three times a day (14:00, 16:00 and at End of Day). Respective nominal value must be a multiple of the "Multiple Quantity" and equal or greater to the "Minimum Denomination" of the respective security.
- The "BIC Collateral Provider" is the alphanumeric SWIFT address assigned to the participant.
- The "Reservation Account" in Creation (CBL) is analogous to the sub-account 550 in CASCADE (CBF). Securities held in CBL in the Source Account of the participant must be moved to the Reservation Account. The Reservation account is unique acrossall Xemac Client References.
- The Segregated Account is the participant Creation account for collateral receipts linked to GC Pooling trades.
- Clearer and Trader IDs are mandatory for a Contract Conclusion based on the Contract Definition "Euro GC Pooling" to be established and they can be deleted only if not used in an active Contract Conclusion referring to this Client Reference.

🔀 6335 - Display Client Refere	ence			
Participant 6335	ABC BANK		Versio	on 5
Client Data		Settlement Data	Processing In	formation
CBL BIC Collateral Provider Reservation Reservation Account	ABCD/ 1234		Automatic Return	
Segregated Account	□ Au 1234€	tomatic Provisioning	At 16:00	
oogrogatoa Acobant	12510			
ID		Cash		
Clearer ID ABCD	E	RTGS Account		
Trader ID ABCD	E	Creation Cash Account		
				Close

Figure 26: Client References – "Settlement Data" section

The following table contains the description for the fields of the "Settlement Data" section with input possibilities for each field.

"Settlement Data" section			
Name	Field status	Comment	
Automatic Provisioning	Optional entry	By checking this checkbox, Xemac will automatically trigger request for CBL securities in cases of insufficiency of eligible assets in Xemac pool.	
Automatic Return	Optional entry	The underlying feature enables a participant to select the return of free CBL assets from the Reservation Account to the collateral source account in Creation four times per day (11:15, 14:00, 16:00 and End of day).	
BIC Collateral Provider	Optional entry (mandatory for CBL securities)	This SWIFT address is exchanged within messages between CBF and CBL. It is mandatory if the participant wants to deliver CBL assets.	
Reservation Account	Optional Entry (also for CBL securities)	The Reservation Account in Creation is similar to the Xemac sub-account. The Reservation Account is unique across all Xemac Client References.	
Segregated Account	Optional entry (Mandatory Entry for Euro GC Pooling)	The Segregated Account corresponds to the Collateral Taker account in Creation. The Segregated Account must be unique across all Client References.	
Clearer ID	Optional entry (Mandatory Entry for Euro GC Pooling)	The Clearer ID as provided by Eurex is entered here. In a contract based on Contract Definition "Euro GC Pooling", it is mandatory for the Contract Conclusion to be confirmed and checked. It can be entered or modified ONLY by Clearstream. Five alphanumeric digits can be entered for Clearer ID.	
Trader ID	Optional entry (Mandatory Entry for Euro GC Pooling)	The Trader ID as provided by Eurex is entered here. In a contract based on Contract Definition "Euro GC Pooling", it is mandatory for the Contract Conclusion to be confirmed and checked. It can be entered or modified ONLY by Clearstream. Five alphanumeric digits can be entered for Trader ID.	
RTGS Account	Optional entry	Entry in this field can be 11 alphanumeric characters (Entry or modify functions). It will be validated if the RTGS Account is a valid settlement bank of the Ancillary System CEDELULLASI. This field is filled only for a CBL customer.	
Creation Cash Account	Optional entry	It is used in CBL for the reporting of cash transactions in NCCIP. It is allowed to input five digits (Entry or modify functions).	

#### 5.2.3.1.3 **Client Reference example**

The following example shows how to proceed when creating a Client Reference:

- The Participant and Participant Name are automatically filled in with the account • number and name of the Collateral Provider.
- Via the choice list, "BLZ" is selected in the Institute Type field. The value "60050000" is entered in "Institute Reference".
- Via the choice list, "ACC" is selected in the Custody Account Type field. The value "1231234" is entered in the Custody Account Reference field.
- The Client field may remain blank, in which case, an alert is issued that can be ignored . by pressing "OK". In this case, "GC-Pooling ABC" is entered in the Client field.
- The Auto-Provisioning flag is not ticked.
- The Auto-Return flag is not ticked.
- The BIC Collateral Provider is entered as "ABCDABCD".
- The Reservation Account is entered as "12345".
- The Segregated Account is entered as "12346".
- The Clearer and Trader ID are entered as "ABCDE" and "ABCDE" respectively. •

The "Client Data" and "Settlement Data" sections look now as below:

🔀 6335 - New Client Referer	nce				
Participant 633	5 ABC Bank			Version	
Client Data	1	Settlement Data	Proc	essing Informatio	on
Client Reference					
Institute Type	BLZ 💌	Institute Reference	600500000		
Custody Account Type	ACC -	Custody Account Reference	1231234		
Client	GC-Pooling ABC				
MFIID					
Comment					
-					
Date					
Creation					
Deletion					
				ОК	Cancel

Figure 27: Client References - Example: "Client Data" section

X 6335 - Display Client Refer	ence				<u>- 0 ×</u>
Participant 633	5 ABC BANK			Version	5
Client Data		Settlement Data	P	Processing Information	
CBL BIC Collateral Provider	ABC	DABCD			
Reservation Reservation Account	123	45	Automatic I		
	_ A	utomatic Provisioning	At 14:0	0	
Segregated Account	1234	6			
ID		Cash			
Clearer ID ABCD	E	RTGS Account			
Trader ID ABCD	E	Creation Cash Account			
					Close

Figure 28: Client References - Example: "Settlement Data" section

By pressing the "OK" button, Xemac checks and accepts the entered Client Reference. This newly created Client Reference is given the "Entry" status.

An error message will be issued if the user tries to recreate a Client Reference that already exists or is in "Deletion Entry Checked" status.

A newly created Client Reference is made available only after it has been checked. It is only after its creation that it can be used to enter a Claim or Contract Conclusion.

#### 5.2.3.2. How to process Client References

The **"Edit"** function enables user to change the name of a client and enter or modify a comment. For that purpose, the Client Reference cannot be in the "Deletion Checked" status.

Newly created and processed Client References that have not yet been checked can also be processed by the user who entered the corresponding Client Reference in the institution.

The **Client** and **Comment** fields can be modified as required. The remaining fields are output fields. They are filled according to the entry possibilities described in section 5.2.3.1 "How to create new Client References".

The Client field can be deleted. In this case, an alert is issued that can be deactivated by pressing "OK".

On pressing the "OK" button, the processed Client Reference is checked and accepted by Xemac. This Client Reference is given the "Entry" status. Modified Client References are to be checked so that they can be used for Claims or Contract Conclusions.

#### 5.2.3.3. How to delete Client References

The "Deletion" function allows the user to delete Client References or modify client data for:

- Newly created Client References that have not yet been checked;
- Client References with "Entry Checked" status;
- Modified client data that has been rejected or has not yet been checked;
- Client References set for deletion ("Deletion Entry" status).

It is not possible to delete Client References for which there is:

- A valid Claim; or
- A Contract Conclusion, or
- Free collateral available in the collateral pool.

The "Client Data" section is displayed in section <u>5.2.3.1 "How to create new Client</u> <u>References</u>". All fields are output fields and filled according to the entry possibilities described in the above-mentioned section. The "OK" button is replaced by the "Delete" button in the full view for the deletion.

If the selected Client Reference is to be deleted, the "Delete" button must be pressed. Xemac will check whether this deletion is acceptable. The respective Client Reference is given "Deletion" status.

The Client Reference is no longer available after the deletion has been checked.

The deletion will not be carried out if the full view is closed with the "Cancel" button.

#### 5.2.3.4. How to display Client References

The "Display" function enables the user to view client data regardless of the Client Reference's status.

All the fields of the "Client Data" section are output fields. They are filled according to the entry possibilities described in section <u>5.2.3.1 "How to create new Client References"</u>.

This function can be left with the "Close" button.

#### 5.2.3.5. How to check Client References

The creation, processing, deletion or rejection of Client References takes effect only after the check has been carried out using the "Check" function.

However, the Client References must have been:

- Newly created or processed but not yet checked ("Entry" status);
- Newly created or processed and rejected ("Entry Rejected" status);
- Set for deletion but not yet checked ("Deletion" status); or
- Set for deletion and rejected ("Deletion Rejected" status);

and must not have been newly created or modified by the person checking the Client Reference.

Client References set for deletion are subject to a feasibility check as described in section <u>5.2.3.3 "How to delete Client References"</u>.

The check is carried out via the "Status not checked" view. The row(s) that should be checked must first be selected. The selection can be confirmed via the "Should the marked lines be checked?" window provided by Xemac.

An error message will be issued if the selected area contains Client References that do not fulfil the aforementioned requirements or the feasibility check as described in section 5.2.3.3 <u>"How to delete Client References"</u>. The respective rows will be highlighted in colour.

It is possible to actively use entered and processed Client References after committing the check with "Yes". They are given "Entry Checked" status and can now be used for Contract Conclusions. Client References set for deletion are given the "Deletion Checked" status and are no longer available.

In addition, Xemac updates the Date of Creation or Date of Deletion fields for newly created or deleted Client References.

If the check is terminated by pressing "No", the selection is not saved and the status of the Client References remains untouched.

#### 5.2.3.6. How to reject Client References

A Client Reference can be rejected if the user, while checking, is not satisfied with a newly created, modified or deleted Client Reference.

However, the Client References must have been:

- Newly created or processed but not yet checked ("Entry" status); or
- Set for deletion but not yet checked ("Deletion" status); •

and must not have been newly created, processed or deleted by the person rejecting the Client Reference.

The rejection is carried out via the "Status not checked" view. Selection of multiple rows is possible and the user selects the row(s) to be rejected, and confirms the selection via the "Should the marked lines be rejected?" window.

An error message will be issued if the selected area contains Client References that do not fulfil the aforementioned requirements. This message will also be issued if the Client References were created or modified by the user.

The selected Client Reference is deactivated by confirming the rejection with the "Yes" button. It will not be possible to use it when entering collateral. The Client Reference is given the "Entry Rejected" status.

Selected Client References set for deletion are not deleted when the rejection is confirmed with the "Yes" button. They are given the "Deletion Rejected" status.

If the rejection is terminated with the "No" button, the selected Client Reference remains unchanged.

### 5.2.4 Functions available depending on the status of the Client Reference

As described in previous sections, the availability of the "New", "Display", "Process", "Check" and "Reject" functions depends on the status of the Client Data.

The following table gives an overview of which functions are available depending on the status of a Client Reference.

Availability of function	Status of Client Reference			
Tunction	Entry	Entry checked	Rejection/ Deletion	Deletion checked
New	No	No	No	No
Display	Yes	Yes	Yes	Yes
Process	Yes	Yes	Yes	No
Delete	Yes	Yes	Yes	No
Check	Yes	No	Yes	No
Reject	Yes	No	No	No

#### Table 23: Available functions depending on status of Client Reference

## 5.3. How to adjust the Settings in Xemac

Xemac can be operated in either of two languages: German and English.

The user interface and generated reports are presented depending on the selected language.

The following table displays how a date or a number is presented depending on the selected language:

Representation		
Language	Date	Number
German	TT.MM.JJJJ	x.xxx.xxx,xx
English	DD/MM/YYYY	x,xxx,xxx.xx

			_
Table 24: Representation	of date or number	<sup>•</sup> depending	on language

The "Settings" window is needed to select or locally change the language and/or the SIN used in Xemac. The window is requested by clicking on the "Settings" icon with the left mouse button.

X	6335	- Settings	_ 🗆 🗙
Participant			
6335 V ABC	Bank		<b>•</b>
CASCADE			
Clearing Sub Account	550		
Settlement Date	01/02/2017		
User	Languaga	Pre-filter	Bubble-Help
User ID 6335111111	Language	ertivated	eubble-neip ✓ activated
Color activated	<ul><li>German</li><li>English</li></ul>	Filter	Information Message
Reference Currency	Code		
ISO Code EUR	Code ISIN		•
Information			
Default Write Directory P:\Win	Prog\Xemac5.8\Prod	1	
Current Write Directory P:Win	nProg\Xemac5.8\Prod	١	
			OK Cancel

Figure 29: "Settings" full view

The user can:

- Modify the Language by clicking on the corresponding radio button. The change takes effect after Xemac is restarted.
- Select Colour to be activated / deactivated by clicking on the checkbox. Any change is immediately applicable.
- Select Bubble Help to be activated / deactivated by clicking on the checkbox. Any change is immediately applicable.
- Select the Code (for example, ISIN) from the list of choices. Any change is immediately applicable.

The following table displays the settings and the respective field descriptions of the "Settings" window:

"Settings" Window		
Name	Fieldstatus	Description
Participant [Number]	Output	This field displays the Xemac participant number.
Participant [Name]	Output	This field contains the name of the institution.
[CASCADE] Clearing sub-account	Output	The Xemac sub-account of the position-keeping system is 550 for all Xemac participants.
[CASCADE] Settlement date	Output	Current settlement date is displayed in this field.
[User] User ID	Output	This field displays the user ID.
[User] Language	Mandatory Field	Enables user to select the language (English or German).
[User] Colour	Mandatory Field	Select whether the user wants to activate the Xemac colour function.
		The colours will be visible in the following Xemac Windows: Historical Credit/Debit Instruction, Rejected Instructions, Status not checked and Instructions without PKS Notification.
[User] Pre Filter	Mandatory Field	Enables activation/deactivation of pre-filter functionalities as "Client Reference", "Counterparty", "Settlement location" or "ISIN" under icon "Collateral".
[User] Filter	Mandatory Field	Enables activation/deactivation of filter functionalities in the tabular views.
[User] Bubble Help	Mandatory Field	Enables activation/deactivation of the Xemac Bubble Help function.
[User] Information Message	Mandatory Field	Enables activation/deactivation of the Xemac Information Message function. The messages appear during processing (entry/check/confirm/reject) of instructions and other functionalities within Xemac.
[User] Reference currency ISO code	Output	The reference currency is EUR.
[User] Code	Mandatory Field	The code is by default the last one entered. The choice can be made between German Securities Identification Code, ISIN, Common Code and Cusip.
[Information] Default Write Directory	Output	This field shows the default write directory of Xemac. It must be indicated on installing the Xemac client and can be referenced in the settings screen. Xemac uses this directory by default to save configuration and log files.

"Settings" Window				
Name	Fieldstatus	Description		
[Information] Current Write Directory	Output	This field shows the current write directory of Xemac. It shows the directory currently used for saving reports.		

## 5.4. How to set up Contract Conclusions

This section illustrates how the user can confirm and check a Contract Conclusion entered by the Collateral Taker (for example, the Deutsche Bundesbank or Eurex), thereby establishing the legal validity of the Contract Conclusion. It also explains how a Contract Conclusion can be rejected.

### 5.4.1. Brief description

The Contract Conclusion is a central element in Xemac.

- Xemac provides the Contract Definition type "NCB" for **Contract Conclusions with the Deutsche Bundesbank or other NCBs.** Deutsche Bundesbank is always the end party receiving collateral (Collateral Taker). The customer institution is always the Collateral Provider.
- Xemac provides the Contract Definition type "Eurex" for **Contract Conclusions with Eurex Clearing AG**. Eurex is, in this case always the party, accepting collateral. The customer institution is always the Collateral Provider.
- Xemac provides the Contract Definition type "CMSI" for **Contract Conclusions with the Clearstream Banking Frankfurt.** Clearstream is, in this case, always the end-party receiving collateral. The customer institution is always the Collateral Provider.
- Xemac provides the Contract Definition type "Euro GC Pooling" for customers intending to participate in GC Pooling Repo trades. In such Contract Conclusions, the "Own Status" is set to "Both". For all other types of Contract Definitions, this field is set to "Only Collateral Provider". Thus, a participant, in a "Euro GC Pooling" Claim can change from a Collateral Provider to a Collateral Taker and vice versa.
- Xemac provides the Contract Definition type "Clearstream" for "Bilateral" Contract Conclusions and all other Contract Conclusions, where Clearstream Banking Frankfurt acts as a counterparty (except Secured instruments "CMSI" as mentioned above). In both cases the customer institution is always the Collateral Provider.

The provision of collateral to Eurex includes the full or partial cover for margin requirements pursuant to the exchange's Risk Based Margining System. The margin requirement depends on the clearing status, that is, whether the customer is General Clearing Member (GCM), Direct Clearing Member (DCM) or Non-Clearing Member (NCM).

For further details on the mentioned Contract Definitions refer to section <u>5.1 "Contract</u> <u>Definitions are the basis for Contract Conclusions"</u>.

Contract Conclusions created - or set for deletion - by Deutsche Bundesbank, Clearstream or Eurex Clearing AG must be manually confirmed by the customer institution. Both general principles take effect here (sections <u>4.3 "Four-eye principle"</u> and <u>4.4 "Reciprocal</u> <u>confirmation"</u>].

After the Xemac partner has changed and checked a Contract Conclusion, Xemac automatically confirms and checks this Contract Conclusion, which automatically goes from

"Entry Checked" to "Entry Confirmed Checked" status. The Xemac partner will inform the participant of any changes made.

### 5.4.2. Views in Xemac

Xemac provides the user with a range of predefined views for displaying Contract Conclusions. These views cannot be altered.

The following views mainly refer to the status of a Contract Conclusion:

- The Contract Conclusion number;
- The Historical Contract Conclusions;
- Participant's Own Contract Conclusions and
- The Contract Conclusions that still need to be confirmed or checked; and
- The Third-Party Contract Conclusions.

X View Manager: Contract Conclusions					
Select View	v View				
Origin	Description	Standard View	Τ		
Xemac	Contract Conclusions Number	-	ĺ		
Xemac	Historical Contract Conclusions	-			
Xemac	Own Contract Conclusions	Х	٦		
Xemac	Status not checked	-			
Xemac	Third Party Contract Conclusions	-			
		·			
			_		
		Close			

Figure 30: Xemac Contract Conclusions default view

#### 5.4.2.1. Tabular view: "Contract Conclusions Number"

This view displays all Contract Conclusions in the following stages:

- Entry (Deletion) Checked;
- Entry (Deletion) Checked Confirmed;
- Entry (Deletion) Checked Rejected;
- Entry Confirmed Checked;
- Entry (Deletion) Confirmed Rejected; and
- Entry (Deletion) Rejected Checked.

#### 5.4.2.2. Tabular view: "Historical Contract Conclusions"

#### This view displays all Contract Conclusions:

- For which the data in the "Identification" section has been modified at least once;
- That have been deleted ("Deletion Confirmed Checked" status).

### 5.4.2.3. Tabular view: "Own Contract Conclusions"

This view is available at the same time and is exclusively available for Collateral Takers.

#### 5.4.2.4. Tabular view: "Status not checked"

This view displays all Contract Conclusions that any Collateral Taker created or that are set for deletion. These are Contract Conclusions that the user institution must still either check or confirm.

The view consists of Contract Conclusions with the following status:

- "Entry Checked" or "Deletion Checked";
- "Entry Checked Confirmed";
- "Entry Rejected Checked";
- "Deletion Checked Confirmed";
- "Deletion Checked Rejected".

#### 5.4.2.5. Tabular view: "Third-Party Contract Conclusions"

This view displays all Contract Conclusions for the customer as Collateral Provider that have "Entry Confirmed Checked" status.

Therefore it is possible to show all Contract Conclusions in the above-mentioned status.

For Contract Conclusions any Collateral Taker, the Collateral Taker is always the responsible institute. This is why the user can always display the Contract Conclusions he has entered with his institute or client in the **"Third-Party Contract Conclusions"** view.

### 5.4.3. Processing Contract Conclusions

The **"Check"** and **"Confirm"** functions described below are used to legally effect the conclusion of contracts entered – or set for deletion – by any Collateral Taker. Using the "Reject" function, Contract Conclusions that have not yet been confirmed can also be refused.

After the Xemac partner has checked a modified Contract Conclusion, Xemac automatically confirms and checks it, that is, the Contract Conclusion automatically goes from "Entry Checked" to "Entry Confirmed Checked" status.

#### 5.4.3.1. How to display a Contract Conclusion

The "Display" function can be used to view information on a specific Contract Conclusion. However, it is a prerequisite that the Xemac partner has processed this Contract Conclusion thoroughly within the scope of the four-eyes principle.

The sections and the displayed information are explained below using a Contract Conclusion with Deutsche Bundesbank as an example. Each section is listed in the "Display" function:

Counterparty	7069	System Cor	ntract No.	2005000025	Version	1
Identification	Xe	mac Partner	· r	Controls	r	Processing Information
Responsible Institute	7069	Name	DEUTSCHE E	BUNDESBANK		
Own Contract No.	1234567890	Name	ABC Bank			
Contract Definition						
Number 1	Nan	ne Deutsch	ne Bundesbank			
			ie Dundesbank			
Version 3	Ту	pe NCB	ie Dundesbank			
-	Ту		ring Claim Perio			
wn Status		Enter				17/03/2009
Version 3 Dwn Status Only Collateral Provider Only Collateral Taker		Enter Vali	ring Claim Perio			17/03/2005

Figure 31: Contract Conclusion- "Identification" section

The **System Contract Number** and **Version** fields ensure uniqueness of a Contract Conclusion. The user can modify the **Own Contract Number** field at any time.

"Identification" section				
Name	Fieldstatus	Comment		
Responsible institute	Output	This field displays the Xemac participant number of the institute that set up the Contract Conclusion.		
Name	Output	This field displays the name of the institution that set up the Contract Conclusion.		
Own contract number	Output	The Contract Conclusion is identified by a unique number assigned by the user.		
Name	Output	This field contains the name of the Contract Conclusion assigned by the responsible institute.		
[Contract Definition] Number	Output	This field contains the number of the underlying Contract Definition for the Contract Conclusion.		
[Contract Definition] Name	Output	This is the name of the underlying Contract Definition for the Contract Conclusion.		
[Contract Definition] Version	Output	This field displays the current version of the Contract Definition that refers to the Contract Conclusion.		
[Contract Definition] Type	Output	This field displays the Contract Definition type ("NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex").		
Own status	Output	For Contract Conclusions based on Contract Definition types "NCB", "CMSI" or "Eurex", the own status is indicated as "Only Collateral Provider" and by Contract definition type "Clearstream" can be also status "Only Collateral Taker".		
		For Contract Conclusions based on Contract Definition type "Euro GC Pooling", the status displays "Both".		
[Entering Claim Period] Valid from	Output	When this date is reached, Claims can be entered for the Contract Conclusion.		
[Entering Claim Period] Valid until	Output	This field is currently not filled.		

Table 26: Field description of "Contract Conclusion" window - "Id	dentification" section
---	------------------------

🔀 6335 - Display Contract (	Conclusion		
Counterparty	7069 System	Contract No. 2005000025	Version 8
Identification	Xemac Part	ner Controls	Processing Information
Own Profile			
Participant 6335	Name	ABC BANK	
	Client Reference	BLZ 600500000 1234567	
	Client	ABCABC	
	MFIID	DE12345	
Counterparty			
Participant 70	169 Name	DEUTSCHE BUNDESBANK	
	Client Reference		
	Client		
			Close

Figure 32: Contract Conclusion-"Xemac Partner" section

The **"Xemac Partner"** section stipulates the counterparties involved. If a Contract Conclusion has been confirmed and checked, it is no longer possible to modify the entries made in Own Profile or Counterparty. When confirming a Contract Conclusion, either a Client Reference or a Client can be selected.

"Xemac Partner" section Own Profile				
Name	Fieldstatus	Comment		
Participant	Output	The Xemac participant number is displayed here.		
Name	Output	The name of the customer's institute is displayed in this field.		
Client Reference	Output	This field displays the Client Reference that refers to the Contract Conclusion.		
Client	Output	The client's name of the customer displayed in this field.		
MFIID	Output	This field displays the MFIID in the section of the collateral provider when contract definition type NCB is chosen.		

Table 27: Field description of window "Contract Conclusion" - section "Xemac Partner" Own Profile

"Xemac Partner" section Counterparty		
Participant	Output	This field contains the Xemac participant number of the counterparty.
Name	Output	This field contains the name of the counterparty, that is, Deutsche Bundesbank.
Client Reference	Output	This field contains the respective Client Reference of the Counterparty.
Client	Output	This field contains the respective Client of the Counterparty.

#### Table 28: Field description of "Contract Conclusion" window - "Xemac Partner" section Counterparty

All three parameters in the "Controls" section are set to **"Automatic"** by default and cannot be altered.

🔀 6335 - Display Contract Conclusion					
Counterparty	7069 <b>S</b>	ystem Contract No.	2005000025	Version	1
Identification	Xema	nc Partner	Controls		Processing Information
Allocation Allocation Automatic Manual		Claim Confirmation Automatic   Manual		<mark>⊂Contract C</mark>	
					Close

#### Figure 33: Contract Conclusion- "Controls" section

For Contract Conclusions with Deutsche Bundesbank and Eurex, Claims are automatically confirmed when modified for the first time or increased.

The counterparty has always to manually confirm a deletion using the four-eyes principle.

The Collateral Provider must manually confirm new Contract Conclusions or those that have been set for deletion; whereas contract changes are confirmed automatically.

#### 5.4.3.2. How to modify Contract Conclusions

The "Edit" function enables the user, provided that the Contract Conclusion is in "Entry Confirmed Checked" status, to modify or delete the **Own Contract Number**.

If the **Own Contract Number** is deleted in the "Identification" section, Xemac will issue an alert, which can be deactivated by pressing "OK".

On confirming the modification with "OK", Xemac will adopt the new **Own Contract Number**. This means that the four-eyes principle will not apply if the field **Own Contract Number** is modified.

This window can be left with "Cancel" if no changes were made. An error message is issued if this window is closed with the "OK" button without having made any changes.

Changes will not be saved if the window is closed with the "Cancel" button.

#### 5.4.3.3. How to confirm Contract Conclusions

Newly created Contract Conclusions, or Contract Conclusions set for deletion, must always be manually confirmed. This can only be carried out in the full view. Automatic confirmation is not applied.

The sections of the full view are illustrated in section <u>5.4.3.1 "How to display a Contract</u> <u>Conclusion"</u>. In the confirmation full view, "Close" is replaced by "OK" and "Cancel".

If a Contract Conclusion (version 1) is confirmed, an **Own Contract Number** can be assigned and a **Client Reference** can be added, if necessary. An existing Own Contract Number cannot be reassigned.

Xemac issues an alert if the user fails to assign an **Own Contract Number** or enters an **Own Contract Number** that has "Deletion" status.

The Contract Conclusion is confirmed by pressing "OK".

The status of the selected Contract Conclusion remains unchanged if the confirmation is terminated with "Cancel".

In a Contract Conclusion based on Contract Definition "Euro GC Pooling", it is possible to "Confirm" only one Contract Conclusion per Client Reference with a Clearer and Trader ID. However it is possible to confirm more than one Contract Conclusion with another Client Reference with a different combination of Clearer and Trader ID. It is not possible to confirm a Contract Conclusion without a Clearer and Trader ID.

Contract Conclusions not confirmed within three business days of their entry will not be deleted, contrary to the deadline otherwise applicable. This enables the user to carry out the confirmation, rejection or check at leisure. It is the responsibility of the responsible institute to monitor this process.

#### 5.4.3.4. How to check Contract Conclusions

The Collateral Provider must always manually check newly created Contract Conclusions or Contract Conclusions set for deletion.

This concerns the following statuses:

- "Entry Checked Confirmed";
- "Entry Checked Rejected";
- "Deletion Checked Confirmed"; and
- "Deletion Checked Rejected".

Contract Conclusions are checked by right- clicking on the "Contract Conclusions" icon and clicking on "Status not checked". First, the row(s) that should be checked must be selected in the tabular view and then the selection can be confirmed via the "Should the marked lines be checked?" window provided by Xemac.

An error message is issued if the selected area contains rows that do not have the required status or that were created/modified by the same user.

After checking a Contract Conclusion set for deletion, it will no longer be possible to enter a Claim for this Contract Conclusion. Neither can this Contract Conclusion be changed nor can the deletion be recalled.

The Contract Conclusion is checked by confirming the check with "OK".

If the check is terminated by pressing "Cancel", the selection is not saved and the status of the selected Contract Conclusion remains unchanged.

#### 5.4.3.5. How to reject Contract Conclusions

The "Reject" function enables the user to reject Contract Conclusions with the following statuses:

- "Deletion";
- "Deletion Checked";
- "Entry Checked Confirmed";
- "Deletion Checked Confirmed";
- "Entry Checked Rejected"; and
- "Deletion Checked Rejected".

The rejection of a Contract Conclusion is carried out by right- clicking on the "Contract Conclusions" icon and clicking on "Status not checked". In the tabular view, first the row(s) to be rejected are selected and then the selection can be confirmed in the "Should the marked lines be rejected?" window provided by Xemac.

If the user wants to reject a Contract Conclusion in one of the following status:

- "Deletion Checked";
- "Entry Checked"; or
- "Entry Checked Confirmed";

the "Reject" entry must be selected in the menu bar of the context menu.

To reject a Contract Conclusion with "Entry Checked Rejected" status, the "Confirm" entry in the menu bar or context menu must be selected and the choice can be confirmed by clicking OK when receiving the message "Should the marked lines be rejected?".

An error message will be issued if the selected rows do not have the appropriate status or were created / modified by the same user.

The selected Contract Conclusion is rejected after pressing the "OK" button.

If the rejection is terminated by pressing "Cancel", the selection is not saved and the status of the selected Contract Conclusion remains unchanged.

Contract Conclusions that were not checked after a rejection will not be deleted, contrary to the deadline of three business days after the date of entry. This enables user to carry out the confirmation, rejection or check at leisure. It is the responsibility of the responsible institute to monitor this process.

#### 5.4.3.6. Functions available depending on the Contract Conclusion status

The availability of functions described above depends on the status of the Contract Conclusion.

The following tables provide an overview of which functions are available for which Contract Conclusion status.

These arrangements do not apply to the modification of the **Own Contract Number**.

The Claim's s	tatus is							
	Colla	eral Take	۲ <sup>а</sup>	Collateral	Provider <sup>b</sup>			
Function	Entry	Entry Checked	Entry Rejected	Entry Checked Confirmed	Entry Checked Rejected	Entry Confirmed Checked	Entry Rejected Checked	Entry Confirmed Rejected
Display		Yes		Yes	Yes	Yes	Yes	
Check				Yes	Yes			
Reject		Yes		Yes				
Confirm		Yes			Yes			

#### Table 29: Call by originator

-----

a. Here is shown which activity the counterparty carried out previously.

b. Here is shown which activity the customer's institution carried out previously.

The table for deleted Contract Conclusions corresponds with that for entered Contract Conclusions. The only difference is that "Entry" is substituted by "Deletion" in the second and fourth column headings.

## 5.5. How to enter Claims in Xemac

After the user has set up a contract in Xemac, and thereafter intends to set up Claims, the following sections explain how to:

- Enter **new** Claims into the system;
- **Display** Claims;
- Modify Claims:
  - o Edit;
  - Accept the latest version of the Contract Conclusion for the existing Claims, only if required intra-day;
  - Delete;
- Check Claims;
- Reject Claims;
- Substitute allocated collateral by way of Manual Allocation/Release.

### 5.5.1. Brief description

A Claim is always based on a Contract Conclusion with Contract Definition type "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex".

A Claim is always entered in Xemac by the Collateral Provider. As such, the Collateral Provider enters a new Claim or increases the Claim Amount of an existing Claim, thereby resulting into a corresponding allocation in Xemac.

For Claims based on Contract Conclusions with the Contract Definition type "CMSI", Xemac will automatically increase or decrease Claims. A manual modification of such Claims is permitted for Clearstream users only.

If the Claim Amount of a Claim is reduced, the reduction is only effective after the approval of the respective Collateral Taker counterparty.

For Claims based on Contract Definition type "NCB", the claim can be reduced to the collateral value of allocated collateral as a result of changes in ISIN eligibility or upcoming corporate event.

After a Claim reduction and approval, Xemac will automatically release collateral.

### 5.5.2. Views in Xemac

Xemac provides the user with a range of views that cannot be modified or deleted.

The tabular views display all Claims that the Collateral Provider entered in Xemac on behalf of itself or its clients.

In general, both the **Own Claim Number** and the **System Claim Number** are displayed.

The Claim Amount is displayed with a negative sign if the user is a provider of collateral (Own Status "Provider"). The corresponding Xemac partner accepting collateral (Own Status "Taker") sees the Claim Amount without any sign (implying positive). The Claim Amount is displayed in and along with the respective Claim Currency.

The tabular views contain only the current Claims, that is, all Claims with "Entry Confirmed Checked" Claim Status. Only the tabular views "Claim Number", "Status Not Checked" and "Historical Claims" display Claims with other statuses.

Origin	Description	Standard View
(emac	Automatically Confirmed	-
(emac	Claim Amount	X
(emac	Claim Number	-
(emac	Daily Change Global Amount	-
(emac	Historical Claims	-
(emac	Status not checked	-

#### Figure 34: Xemac default view Claims

The following sections describe the information displayed per view.

#### 5.5.2.1. Tabular view: "Claim Amount"

This view displays **all current Claims** (including Claims with blocked status) in ascending order of Claim Amount in Claim Currency.

The **Reference Currency** is always EUR. The Claim Currency can be different from EUR. Eligible currencies are those that can be processed in the CASCADE Foreign Currency application. The **Counterparty** is the Collateral Taker or Collateral Provider (depending upon the profile of the customer). The "Own Status" can be either "Provider" or "Taker". A Claim Amount with cover ratio lower than 100% will be highlighted in red if colour has been selected within "Settings".

For Claims with Contract Definition Type "Euro GC Pooling" and for all GC Pooling Reuse claims with Contract Definition Type "Eurex" or "NCB" the Basket short name is filled in the "GCP Basket" column.

#### 5.5.2.2. Tabular view: "Status not checked"

This tabular view displays all Claims that are still to be checked, that is, Claims with the following status:

- Entry;
- Entry Rejected;
- Deletion; or
- Deletion Rejected.

#### 5.5.2.3. Tabular view: "Historical Claims"

The "Historical Claims" view displays Claims that were valid in the past but are no longer valid. They have been either modified or deleted since their introduction into the system (for example, change of status).

If, for example, the global amount for Deutsche Bundesbank is increased, the previous version with the lower global amount will automatically become "historical" after that the Claim modification has been checked.

The same will happen in the case of the deletion of a Claim. After the check and manual confirmation by the counterparty, the Claim will automatically become "historical".

This view contains all historical Claims, with all historical versions displayed in sequence for each Claim.

However, only the versions of a Claim with "Entry Confirmed Checked" status become historical.

This view exclusively displays Claims:

- For which the data has been modified at least once after reaching "Entry Confirmed Checked" status;
- That were deleted after reaching the "Entry Confirmed Checked" status (status "Deletion Confirmed Checked").

#### 5.5.2.4. Tabular view: "Automatically Confirmed"

This view contains all Claims that were automatically confirmed on the day of the entry or on the day before; for example, newly entered Claims, increases of Claim Amounts.

#### 5.5.2.5. Tabular view: "Claim Number"

This view contains all Claims that were open (valid) in the system, providing similar information as "Claim Amount", sorted sequentially by Claim Number. Unlike the "Claim Amount" view, where only the current valid Claim is displayed, this view displays the Claims in all existing statuses.

#### 5.5.2.6. Tabular view: "Daily Change Global Amount"

For a Collateral Taker, this view displays all Claims that were modified during the current business day, including those requiring further action (for example, approval, rejection).

#### 5.5.3. How to maintain Claims

#### 5.5.3.1. Brief description

Using the "Claims" icon, it is possible to "maintain" Claims in Xemac; that is, the global amounts notified to Deutsche Bundesbank and the securities to be pledged to Eurex to meet margin requirements, as well as any other Claim towards a Collateral Taker.

How the functions described in this section are called up depends on the status of the Claim; that is, a certain status is sometimes a prerequisite for certain activities. The "Call by Originator" table below (originator = person entering the Claim) displays the valid combinations of status and functions.

A Claim is always entered in Xemac by the Collateral Provider. The Collateral Provider maintains the Claim Amounts (creation, modification and deletion).

The reduction of a Claim Amount initiated by a Collateral Provider requires approval by the Collateral Taker.

An increase is automatically confirmed.

It is possible to have several versions associated with one Claim number. If there is a version of the Claim in process, only the version with "Entry Confirmed Checked" status can be processed.

The same will happen as in the case of a deletion of a Claim. After the check and manual confirmation by the counterparty, the Claim will automatically become "historical".

The following table illustrates which functions are accessible to the user as "the originator" of a Claim.

	Collateral Provider <sup>a</sup>				Collate	Collateral Taker <sup>b</sup>			
Function	Entry	Entry Checked	Entry Rejected	Deletion Checked	Confirmation	Rejection	Confirmation Checked	Rejection Checked	Confirmation Rejected
New									
Display	Yes	Yes	Yes	Yes	Yes	Yes℃	Yes	Yes	Yes
Modify	Yes	Yes	Yes				Yes	Yes	
Delete	Yes	Yes	Yes				Yes	Yes	
Check	Yes		Yes						
Reject	Yes								
Confirm									

#### Table 30: Claim Status (originator)

-----

a. Here is shown which activity the person entering the Claim carried out previously.

b. Here is shown which activity the counterparty carried out previously.

c. Claims with this status may be displayed with the obsolete status "Entry Checked". It is only after the counterparty has applied the four-eyes principle that the user will see the Claim in the correct current status.

#### 5.5.3.2. How to enter a Claim for "NCB", "Clearstream", "CMSI" and "Eurex"

For this purpose, the user needs to change to the full view from the tabular view to enter a new Claim as described in sections <u>2.3.1 "Tabular view"</u> and <u>2.3.2 "Full view"</u>. Both the "Xemac Partner" and "Claim Details" sections should be used. Individual fields of these sections are filled in.

The **originator of the Claim** (that is, the person entering the Claim) is the Collateral Provider when creating a Claim.

A Claim consists mainly of:

- The **Own Claim Number**, which is optional for the person entering the Claim;
- The System Claim Number, which the system assigns when a Claim is generated;
- The **Claim Version**, which the system increments by 1 after each activity (it is initialised to 1 upon selecting "New");
- The Claim Amount assigned by the Collateral Provider;
- The Claim Currency assigned by the Collateral Provider;
- The Comment entered by the person entering the Claim;
- A Contract Conclusion assigned by the person entering the Claim;

- The Own Profile data;
- The Counterparty data; and
- The additional details to which both parties must agree.

The client details of the user and the corresponding counterparty are displayed on the "Xemac-Partner" tab.

X 6335 - New Claim						
Own Claim No.		System Claim No.		Versi	on	
Own Contract No.		System Contract No.	em Contract No.		Version	
Xemac Partner		Claim Details		Proc	essing Information	on
Own Profile						
Participant 6335	Name	ABC Bank				
	Client Reference	BLZ	1234567			-
	Client	ABCABC				•
	MFI ID	DE12345				-
Counterparty						
Participant 7069	Name	DEUTSCHE BU	JNDESBANK			-
	Client Reference					-
	Client					-
					ОК	Cancel

#### Figure 35: Claim - "Xemac Partner" section

The following table shows how the fields of the section are filled in, together with the input possibilities for individual fields.

Header					
Name	Fieldstatus	Pre-filled/Input possibilities			
Own Claim Number	Output	Not filled in			
System Claim Number	Output	Not filled in			
Version (of the Claim)	Output	Not filled in			
Own Contract Number	Output	Not filled in			
System Contract Number	Output	Not filled in			
Version (of the contract)	Output	Not filled in			

#### Table 31: Field description of "Claim" window – Header

"Xemac Partner" Own Profile section				
Participant	Output	Filled in according to the individual settings		
Name	Output	Filled in according to the individual settings		
Client Reference	Optional entry	Not filled in		
Client	Optional entry	Not filled in		
MFIID	Output	Filled in according to individual settings. <sup>4</sup>		

#### Table 32: Field description of "Claim" window -"Xemac Partner" Own Profile section

#### Table 33: Field description of window "Claim" - "Xemac Partner" Counterparty section

"Xemac Partner" Counterparty section				
Participant	Mandatory	Here the counterparty can be selected using his name depending on available Contract Conclusions for the selected Client Reference. Xemac will then fill in the "Name" field accordingly.		
Name	Mandatory	Here the counterparty can be selected using his name depending on available Contract Conclusions for the selected Client Reference. Xemac will fill in the "Participant" field accordingly. This functionality is not offered for all Contract Definition types.		
Client Reference	Output	Not filled in		
Client	Output	Not filled in		

As a rule, the Participant Number and the Name of the Collateral Provider are pre-defined and cannot be modified under **"Own Profile"**.

If Deutsche Bundesbank is the Collateral Taker, its Name is specified in "Counterparty". The Counterparty Client Reference is only an output field. This addition is also necessary even if a Claim for the own institution is entered. In this case, the "empty" Client Reference or the "empty" client must be explicitly selected in Client Reference or Client, respectively.

At this stage, it is possible to enter the **Xemac partner**: either via the field [Counterparty] Participant or via his [Counterparty] Name. Xemac will, in both cases, fill in the other field.

The Claim raised can be based on only one Contract Conclusion.

The following fields of the Contract Conclusion:

- Own Contract Number;
- System Claim Number;
- Contract Version; and
- Contract Name

are displayed on the **"Claim Details"** tab (part of "Contract Data"). In general, a selection of those fields is not possible (except when, for example, two Contract Conclusions have been set up referring to the same Client Reference: in this case, Xemac asks the user to choose on the basis of which Contract Conclusion the Claim will be raised).

 $<sup>^4</sup>$  The field is displayed only in case of NCB claim.

The "Claim Details" section contains all details on the underlying contract as well as details of the Claim and collateralisation.

Own Claim No.					<u>_     ×</u>	
own cluim no.		System Claim No.		Version		
Own Contract No.		System Contract No		Version		
Xemac Partner		Claim Details		Processing Information		
Contract Data Own Contract No.	T	System Contract No.	2012000227 💌	Contract Version	1	
Contract Name A	ABC ABC ABC ABC					
Claim Data Own Claim No. Amount Collateralised from Comment		20/12/2012	Currency Collateralised unt	EUR	<b>.</b>	
Claim Control GCP Reuse Automatic Claim I	Decrease Request		ditional Information	vent		
Last Valuation Date &	Time					
Collateral Value		EUR	Cover Ratio		%	
				0	K Cancel	

Figure 36: "Claim" - "Claim Details" section

"Claim Details" sectio	on					
Name	Fieldstatus	Pre-filled/Input possibilities				
Own Contract Number	Output	Filled in according to the entries in the "Xemac Partner" section				
System Contract Number	Output	Filled in according to the entries in the "Xemac Partner" section				
Contract Version	Output	Filled in according to the entries in the "Xemac Partner" section				
Contract Name	Output	Filled in according to the entries in the "Xemac Partner" section				
Own Claim Number	Optional entry	Not filled in				
Amount	Mandatory Field	Negative sign only				
Currency	Mandatory field	Filled in with "EUR" by default. Can be changed during creation of a new Claim				
Collateralised from	Output	Pre-filled with current date				
Collateralised until	Output	Not filled in; a Claim is always unlimited				
Comment	Optional entry	Not filled in				
GCP Reuse	Optional entry	Blank by default. Feature enabled based on Contract Definition setup				
Automatic Claim Decrease Request	Optional entry	Blank by default.				
Instruction reference / Event	Output	This field indicates the reason for automatic Claim changes due to following reasons:				
		<ul> <li>CASCADE Instruction Reference of the GC Pooling trade;</li> </ul>				
		• Re-evaluation due to changes in eligibility and/or price, or upcoming Corporate event for ISINs allocated in claims.				
Collateral Value	Output	Not filled in				
Cover Ratio	Output	Not filled in				

#### Table 34: Field description of "Claim" window - "Claim Details" section

An error message will be provided by Xemac if an **"Own Claim Number"** is used that has already been assigned.

A warning is issued if user enters an "Own Claim Number" that is in "Deletion Checked" status.

The **"Claim Amount"** is saved as soon as it is entered with an amount of zero or an amount with a negative sign.

An error message is issued if the user tries to enter a second Claim for a Client Reference for a Contract Conclusion with the same Contract Definition type (that is, a Contract Conclusion has been stipulated that already is the basis for another Claim).

After completion of the entries with the "OK" button, the system checks the entered data and increases the **version** of the Claim by 1.

The entries will not be saved if the window is closed with the "Cancel" button.

### 5.5.3.3. Special cases for "CMSI" and "Euro GC Pooling" Claims

Claims on Contract Conclusions based on Contract Definition Type "CMSI" must be created by the Collateral Provider with an original amount as ZERO. It is not possible for a participant to modify the Claim Amount. Furthermore, the deletion of a "CMSI" Claim will only be possible if no Collateral-secured instrument is assigned to the Claim.

The version changes of "CMSI" Claims take place if the Claim Amount changes at the end of the automatic exposure calculation at 13:00 or end of day.

Claims on Contract Conclusions based on Contract Definition Type "Euro GC Pooling" are created, with an original amount as ZERO, by Clearstream from the side of the participant as Collateral Provider and Eurex Clearing as the Taker. Unlike Claims based on "NCB", "Clearstream" or "Eurex", it is not possible for a participant to create or modify the Claim Amount or delete or accept a "Euro GC Pooling" Claim.

The version changes of "Euro GC Pooling" Claims occur due to trades entered into by the GC Pooling participants.

The "Adapt" and "Accept" functionalities are enabled for Clearstream users only. In the above cases, these features are only in exceptional circumstances used intraday. Xemac carries out this (upgrade) process automatically at end of day if the required conditions are met.

### 5.5.3.4. Special cases for Reuse Claims

Though modification of a Claim can be done anytime to bring the Claim to "Entry" status, no restriction applies to the "Check" of the modified Claim.

It is recommended for participant reusing collateral, to leave some "buffer" in the collateral pool, to avoid all settlement failures, caused by different evaluation methodology.

### 5.5.3.5. How to display a Claim

This function provides a detailed display of the Claims regardless of their status.

As soon as a Claim is collateralised, the "Claim details" tab will display the valuation date and time of collateralisation above the fields **Collateral Value** and **Cover ratio** as "DD.MM.YYYY HH:MM:SS".

### 5.5.3.6. How to modify a Claim

### 5.5.3.6.1 Online via Xemac Client

The only version that can be modified is the "current" version.

The user can modify Claims with the following statuses:

- Entry;
- Entry Checked;
- Entry Rejected;
- Entry Confirmed Checked;
- Entry Rejected Checked.

After the Claim Amount has been reduced, it can be edited again after the confirmation or rejection of the counterparty has been received. Xemac will block this Claim for such periods.

The scope of modifiable fields is limited. The user can fill in the modifiable fields in accordance with the checks described in section <u>5.5.3.2 "How to enter a Claim for "NCB", "Clearstream",</u> <u>"CMSI" and "Eurex"</u>.

The system checks the entered data after the confirmation of the entries with the "OK" button.

After processing, the system increments **the version** of the Claim by 1 if the Claim had the "Entry Confirmed Checked" status before processing. After processing an existing Claim, there is a further Claim in the system with the same Claim number but with a higher version (increased by one). The previous version can, therefore, no longer be issued.

The version remains unchanged as long as the Claim did not have "Entry Confirmed Checked" status before being processed. Only the data entered by the user is changed in the Claim, which then has "Entry" status.

The Claim window contains a checkbox named **"GCP Reuse"**. By checking this, the user shows its intention to reuse transferred collateral received through GC Pooling trades for a further pledge in a Claim allowing reuse of transferred assets. If the checkbox is not checked, only own collateral (Type "E") will be allocated to the Claim. When checked, transferred securities (Type "T") along with own securities will be allocated if allowed through the setup within the Contract Definition. When "T" securities are pledged in a Claim, it is not possible to remove the tick in the checkbox.

If the user changes only the **"Own Claim Number"** and/or the **Comment**, a new Claim version will not be created.

Checking/unchecking the checkbox does only require a Check and no confirmation from the counterparty. A new version of the Claim is, however, created. The changes will not be saved if the window is closed with the "Cancel" button. An error message will be issued if this window is closed with the "OK" button without having made any changes.

The following table illustrates the field settings of a selected Claim:

Header									
Name	Field status	Comment							
Own Claim Number	Output	Derived from selected Claim							
System Claim Number	Output	Derived from selected Claim							
Version (of the Claim)	Output	Derived from selected Claim							
Own Contract Number	Output	Derived from selected Claim							
System Contract Number	Output	Derived from selected Claim							
Version (of the contract)	Output	Derived from selected Claim							

#### Table 35: Description of field settings of a selected Claim - Header

Table 36: Description of field settings of a selected Claim - "Xemac Partner" Own Profile section

"Xemac Partner" Own Profile section							
Participant	Output	Derived from selected Claim					
Name	Output	Derived from selected Claim					
Client Reference	Output	Derived from selected Claim					
Client	Output	Derived from selected Claim					

#### Table 37: Description of field settings of a selected Claim - "Xemac Partner" Counterparty section

"Xemac Partner" Counterparty section							
Participant	Output	Derived from selected Claim					
Name	Output	Derived from selected Claim					

"Xemac Partner" Counterparty section							
Client Reference	Output	Derived from selected Claim					
Client	Output	Derived from selected Claim					

A non-zero Claim must always be entered with a negative sign "-" preceding the amount.

Table 38: Description of field settings of a selected Claim – "Claim Details" section

"Claim Details" section		
Name	Field status	Comment
Own Contract Number	Output	Derived from selected Claim
System Contract Number	Output	Derived from selected Claim
Version (of contract)	Mandatory	Can only be set to the current version (instead of function "Adopt")
Contract Name	Output	Derived from selected Claim
Own Claim Number	Optional entry	Derived from selected Claim
Last Valuation Date	Output	Derived from selected Claim
Last Valuation Time	Output	Derived from selected Claim
Collateral Value	Output	The sum of the collateral value of all the collateral allocated to this Claim is displayed in the Claim Currency. The sum is rounded to two figures after the decimal point.
Cover Ratio	Output	This field displays the quotient of the collateral value divided by the Claim Amount multiplied by 100. The value is displayed to two decimal points without being rounded. In a GC Pooling Claim, this field is calculated by dividing the Collateral Value by the required collateral value to collateralise the Claim, considering the Claim Amount Premium.
Amount	Mandatory	Derived from selected Claim
Currency	Mandatory	Derived from selected Claim
Collateralised from	Output	Derived from selected Claim
Collateralised until	Output	Derived from selected Claim
Comment	Optional entry	Derived from selected Claim
GCP Reuse	Optional entry	By selecting it enables to reuse the transferred collateral, received through GC Pooling trades in the standard basket, for a further pledge in a Claim with Contract Definition Type "NCB" to Deutsche Bundesbank and Contract Definition "Eurex" to Eurex.

"Claim Details" section									
Name	Field status	Comment							
Automatic Claim Decrease Request	Optional entry	Xemac generates an automatic Claim Decrease Request for a Eurex Reuse Claim whenever the Xemac participant in the role of GC Pooling Collateral Taker is short of "T" securities and if the participant has enabled this new feature.							
		This field indicates the reason for an automatic Claim change due to following reasons:							
Instruction Reference / Event	Output	<ul> <li>CASCADE Instruction Reference of the GC Pooling trade;</li> </ul>							
		• Re-evaluation due to changes in eligibility and prices or an upcoming Corporate event (see section 4.8.1.1)							

### 5.5.3.6.2 MT527 Claim Adjustment request

Customers acting as Collateral Providers have the possibility to change the claim amount by sending Claim Adjustment Request via an MT527 message. Reporting about adjustments of Xemac claims (Exposure Management – "EXPOMA") can be received via MT558 messages.

More details about "Data Transmission Products" is available in section <u>5.8.4 "Data</u> <u>Transmission Products Reporting"</u>. This feature will be applicable for Claims based on the Contract Definition Types "NCB", "Eurex" and "Bilateral Contracts".

A description as well as an example of the MT527 message can be found under Appendix 2 – Claim Adjustment Request.

### 5.5.3.7. How to check Claims (Tabular view: "Status not checked")

The Check can be carried out in any tabular view (exception: "Historical Claims" view). Before checking a Claim in the tabular view, the user can review it in more detail in the full view.

Claims can be checked with the following statuses:

- Entry;
- Entry Rejected;
- Deletion;
- Deletion Rejected.

Claims can be checked in the selected view by highlighting the required row(s). A pop-up window will appear with the text "Should the marked lines be checked?".

If the question is confirmed by clicking on "Yes", the system will check the selected rows. If each selected row is a verifiable Claim, each selected Claim will receive "Entry Checked" status.

If the selected area consists of one or more rows that do not have the required status or that were created, modified or deleted, only the correct Claims will be processed as described above. An error message will be displayed when not all Claims could be checked. The error message will be deactivated by pressing "OK". The view will not be closed automatically.

The selection is not saved if the check is terminated by selecting "No". The Claims remain untouched, remaining with the same status as before selection.

If the check is carried out on the day after the entry, Xemac will set the date **Covered from**, which is filled in with the previous day's date, to the current date.

### **Increasing the Claim Amount**

Claims are automatically confirmed when the global amount of a Claim with "Entry Checked" status is increased.

Xemac allocates the corresponding collateral to the Claim. Deutsche Bundesbank or Eurex are notified of the collateralised, higher Claim Amount or the allocated collateral (in the "Daily Change Global Amount" view).

If Xemac cannot provide sufficient collateral for the increased Claim Amount (because the collateral pool of the customer does not have sufficient eligible collateral), Xemac will reduce the entered Claim Amount according to the collateralisation and notify Deutsche Bundesbank or Eurex of the revised amount.

For Claims towards "Euro GC Pooling", the value of the Claim with Eurex Clearing (net Claim) changes automatically with every instruction. With the change of the Claim, the required allocations and/or releases take place automatically.

### **Reducing the Claim Amount**

Other than GC Pooling Claims, the Xemac partner must confirm Claims when the global amount of the Claim with "Entry Checked" status is decreased by the Collateral Provider.

After the Collateral Taker has confirmed and checked the reduction, Xemac reduces the global amount and releases the surplus collateral.

If the Claim Decrease Request was not accepted by the Collateral Taker, the "Rejection Reason" column will contain the reason for the rejection.

#### Automatic Claim Adjustment

For Claims towards CMSI, automatic exposure adjustment and linked collateralisation is carried out as below:

Exposure Adjustment	Collateralisation					
Around 13:00	Immediately after exposure adjustment					
Around 19:00	Next-day during the morning re-evaluation					

#### Table 39: Exposure adjustment and collateralisation for CMSI Claims

If Xemac identifies that insufficient collateral is available within the collateral pool to meet the adjusted Claim Amount, then Xemac will not reduce the Claim Amount but show the cover ratio below 100%. The Collateral Provider must credit additional collateral into the collateral pool.

### 5.5.3.8. How to reject Claims

Only Claims with "Entry" or "Deletion" status can be rejected.

To "reject" means that the user, as the person checking the Claim, is reviewing an entered, processed or deleted Claim and finds it incorrect.

The rejection can be displayed in any tabular view (exception: the "Historical Claims" view). Before rejecting a Claim in the tabular view, the user can review it in more detail in the full view.

The user can reject Claims in the selected view by highlighting the required row(s).

A pop-up window will appear with the text "Should the marked lines be rejected?". If a confirmation is given by clicking on "Yes", the system will check the selected rows.

If a selected row is a Claim that can be rejected, it will be given "Entry Rejected" or "Deletion Rejected" status.

If the selected area consists of one or more rows that do not have the required status or that the user created, modified or deleted, only the correct Claims will be processed as described above. A pop-up window will appear displaying an error message that can be deactivated by clicking on "OK". The view will not be closed automatically if all the rows could not be processed automatically.

If the rejection is terminated by clicking on "No", the selection is not saved. The Claims remain unchanged, with the same status as before the selection.

#### 5.5.3.9. How to delete Claims

The required Claim must be selected in the tabular view. Xemac changes to the full view. The "OK" button is replaced by the "Delete" button in the full view for deletions.

User can delete:

- Claims that were entered but not yet checked ("Entry" status);
- Entered Claims that have been rejected ("Entry Rejected" status);
- Claims that have been checked ("Entry Checked" status);
- Claims with "Entry Confirmed Checked" status; and
- Claims with "Entry Rejected Checked" status.

It is important to note that rejected Claims must be deleted. However, Xemac validation prevents User 2 from acting on this.

The status of the Claim remains "Checked" if the window is closed with the "Delete" button.

The version of a Claim set for deletion is incremented by 1 and given "Deletion" status.

If the window is closed with "Cancel", a version with "Deletion" status is not generated.

### 5.5.3.10. How to adapt the current Contract Conclusion for already existing Claims

### Contract Definitions with 7525 (Eurex), 8261 (Clearstream):

For Contract Definitions with the responsible institutes 7525 and 8261, an adaptation of Contract Conclusions and Claim for the customer is not necessary if the Contract Definition was changed. The process of adaptation is processed automatically within the night-time batch processing.

### Contract Definitions with 7500 (Eurex), 7069 (Dt. Bundesbank) and bilateral Contracts:

The "Accept" function enables the user to adopt the current contract version for Claims with "Entry Confirmed Checked" status. If a new version of the Contract Conclusion has been created since the creation of a Claim, this function allows the adaptation of the modified contract version as the basis for this Claim.

Before this activity, the Claim refers to an older version of the specified Contract Conclusion, after this activity, it refers to the current version.

The adaptation can be viewed in any tabular view (exception: "Historical Claims" view). From the tabular view, the respective Claim can be displayed in a full view before adapting the current Contract Conclusion version. The "Adaptation" must be carried out by the Collateral Taker only.

It is not possible to adapt the current contract version for the Claim if the **Collateralised from** of the Claim differs from the **Valid from** of the Contract Conclusion. An error message will be displayed.

The Collateral Provider accepts the current contract version in the selected view by selecting the required Claim(s) and right-clicking on the Claim (according to the four-eyes principle) and then selecting "Modify/Accept". Selection of multiple rows is available. A pop-up window appears with the text "Should the current contract version be adapted for the marked lines?". If the question is confirmed by clicking on "Yes", the system will check the selected rows.

If it is possible to carry out the adaptation for each selected Claim, Xemac will set the contract version of each selected Claim to the current contract version.

If the selected area consists of one or more rows that do not have the required status or whose **Collateralised from** date differs with the **Valid until** date of the Contract Conclusion, only the correct Claims will be processed as described above. The system updates the view. The rows containing the Claims for which it was not possible to adapt the current Contract Conclusion will remain in the previous version of the Contract Conclusion. A pop-up window will display an error message, which can be deactivated by clicking on "OK". The view will not be closed automatically.

If the user terminates the adaptation by clicking on "No", the selection will not be saved. The Claims will remain unchanged with the same Contract Conclusion version as before the selection.

For example, for Contract Definition type "Eurex", the respective responsible institute can change the eligibility of securities collateral or the haircut in the Contract Definition. This generates a new version of the Contract Definition. The responsible institute (Taker) will need to "Adapt" the Contract Conclusion to this newer version of the Contract Definition. In order for the changes to take effect on the Claim, the Collateral Provider must "Accept" the Claim to the new Contract Conclusion.

Whenever the Contract Definition undergoes a change due to reasons as indicated above, the Contract Conclusion must be "Adapted" by the Collateral Taker. However, an underlying Claim that is based on the original Contract Conclusion now "Adapted" must be "Accepted" by the Collateral Provider (two users).

# 5.6. How to display Collateral

This section explains how collateral can be displayed in the collateral pool.

It will also be shown how to convert the market value or collateral value of a security into another currency.

### 5.6.1. Brief description

In order to collateralise Claims, the provider of collateral should pledge collateral in favour of the Collateral Taker (for example, Deutsche Bundesbank or Eurex) in the form of eligible securities.

### 5.6.2. Xemac views

Xemac provides the user with predefined views for displaying collateral. These views cannot be altered.

Xemac provides three different views: Collateral Positions, Allocated Collateral and Collateral Overview.

### 5.6.2.1. Tabular view - Collateral positions

This tabular view enables the user to display collateral Positions. This covers all unallocated (status "free") as well as collateral pledged in favour of any Collateral Taker (status "pledged" or "appropriated"). The "Type" column determines whether the securities belong to "Own" pool ("E") or are received due to Euro GC Pooling Repo trades ("T").

Looking at the collateral positions, it is possible to see, in the Collateral Status, whether collateral is "free", "pledged", "reserved for allocation", "reserved for release", "reserved for debit" or "appropriated".

Filter	Options							
<pi< th=""><th>ease select value&gt;</th><th>-</th><th>=</th><th></th><th></th><th>+ Reset</th><th>Filter</th></pi<>	ease select value>	-	=			+ Reset	Filter	
<b>€</b>	p SIN Type		Settlement Location	Nominal Value	Collateral Status	System Claim No.	Counterparty	
691	X\$0257807957	E	CBL	800,000	Free			
692	XS0257807957	E	CBL	250,000	Reserved for Debit			
693	XS0258298164	E	CBL	7,050,000	Free			
694	XS0258790400	E	CBL	12,500,000	Pledged	200000016	7500	
695	XS0259231974	E	CBL	1,072,000	Free			
696	XS0260981658	E	CBL	100,000	Free			
697	XS0264382176	E	CBL	1,500,000	Free			
698	XS0267452927	E	CBL	450,000	Pledged	200000016	7500	
699	XS0267636495	E	CBL	10,000,000	Free			
700	XS0268275749	E	CBL	200,000	Free			
701	XS0268436341	E	CBL	60,000	Free			
702	X\$0269226238	E	CBL	49,000,000	Pledged	200000016	7500	
703	XS0271757832	E	CBL	650,000	Free			
704	XS0271757832	E	CBL	300,000	Reserved for Debit			
705	XS0272191791	E	CBL	200,000	Free			
706	XS0272401356	E	CBL	35,000,000	Pledged	200000016	7500	
707	XS0273120716	E	CBL	400,000	Free			
708	XS0273564434	E	CBL	48,850,000	Free			
709	XS0273564434	E	CBL	18,250,000	Pledged	200000016	7500	
710	XS0273972397	E	CBL	400,000	Free			
711	XS0276060083	E	CBL	100,000,000	Pledged	200000016	7500	
712	XS0276299541	F	CBL	272 000	Free		•	

Figure 37: Tabular view - "Collateral Positions"

### 5.6.2.2. Tabular view – Allocated Collateral

This tabular view displays the allocated collateral. The possible allocation types are "Pledge", "Appropriation", "Transfer", "Transfer External" and "Transfer EGC".

For a participant, this view shows the ISINs with Nominal Value and Collateral Value:

- With a negative sign when the respective ISINs are allocated to a Claim (view from the Collateral Provider side);
- Without a sign (positive) when the ISINs are received in the pool (view from the Collateral Taker side).

ilter	Options							
<pi< th=""><th>ease select value&gt;</th><th>-</th><th>-</th><th>· .</th><th></th><th></th><th></th><th>Reset     Filter</th></pi<>	ease select value>	-	-	· .				Reset     Filter
¢.	SIN Type Settlement Location		Nominal Value	Allocation Type	System Claim No.	Counterparty	Counterparty Client	
37	DE000A0E9C91	E	CBF	-348,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
38	DE000A0E9DM0	E	CBF	-7,770,000	Transfer EGC	2005000007	7525	
39	DE000A0E97W2	E	CBF	-26,500,000	Transfer EGC	2005000007	7525	
40	DE000A0FAAA7	E	CBF	-300,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
41	DE000A0GQZ74	E	CBF	-448,000	Transfer EGC	2008000097	7525	Übereignung EGCPX
42	DE000A0G1RB8	E	CBF	-3,870,000	Transfer EGC	2005000007	7525	
43	DE000A0HN164	E	CBF	-1,477,000	Transfer EGC	2005000007	7525	
44	DE000A0HN651	E	CBF	-35,000,000	Transfer EGC	2005000007	7525	
45	DE000A0H5VC8	E	CBF	-51,730,000	Transfer EGC	2005000007	7525	
46	DE000A0JBVG0	Т	CBF	15,000,000	Transfer EGC	2005000006	7525	
47	DE000A0JFCN7	Т	CBF	5,000,000	Transfer EGC	2005000006	7525	
48	DE000A0JQA39	E	CBF	-2,314,000	Pledge	1999000005	7069	
49	DE000A0JQ8K8	Т	CBF	15,000,000	Transfer EGC	2005000006	7525	
50	DE000A0KABP3	E	CBF	-25,000,000	Transfer EGC	2005000007	7525	
51	DE000A0KAH03	E	CBF	-15,440,000	Transfer EGC	2005000007	7525	
52	DE000A0KAJS0	E	CBF	-100,000,000	Pledge	1999000005	7069	
53	DE000A0KAS00	E	CBF	-50,000,000	Transfer EGC	2005000007	7525	
54	DE000A0KAV21	E	CBF	-4,612,000	Transfer EGC	2005000007	7525	
55	DE000A0KP0E6	E	CBF	-17,760,000	Transfer EGC	2008000098	7525	Übereignung EGCPX
56	DE000A0KP056	E	CBF	-6,797,000	Transfer EGC	2005000007	7525	
57	DE000A0L1CY5	E	CBF	-25,374,000	Transfer EGC	2005000007	7525	
58	DE000A0MFBA0	E	CBF	-202,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
59	DE000A0NKNC9	E	CBF	-3,449,000	Transfer EGC	2005000007	7525	
60	DE000A0NKXX4	E	CBF	-242,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
61	DE000A0N3KG9	E	CBF	-43,000,000	Pledge	2000000016	7500	
62	DE000A0PM797	E	CBF	-25,000,000	Pledge	1999000005	7069	

Figure 38: Tabular view - "Allocated Collateral"

### 5.6.2.3. Tabular view – Collateral Overview

The tabular view combines the information available in the two existing "Collateral Positions" and "Allocated Collateral" tabular views.

The amounts of the "Nominal Value", "Collateral Value in Reference Currency" and "Collateral Value in Claim Currency" fields are always displayed either beginning with no sign (indicating a positive value) or with a negative sign, depending on the view opened: Collateral Provider or Collateral Taker. The amount of the "Market Value in Reference Currency" field is always displayed with no sign (indicating a positive value).

The screen also displays the two "Sum Market Value in Reference Currency" and "Sum Collateral Value in Reference Currency" fields in the bottom of the view. The sum fields are adjusted accordingly to the filters set in the filter menu.

mor	Options			-					
<pi< th=""><th>ease select value&gt;</th><th>-</th><th>•</th><th></th><th></th><th></th><th>•</th><th>Reset Filter</th><th>2</th></pi<>	ease select value>	-	•				•	Reset Filter	2
÷,	SIN	Туре	Basket	Settlement Location	Securities Description	Nominal Value	Collateral Status	Allocation Type	T
1	AT000B011614	E		CBF	RZB OESTER. 09-11 4/P	1,000,000	Free		
2	AT000B020185	E		CBF	RAIFF.WOHNBAUBK 06-17 CV	500,000	Free		
3	AT000B048517	E		CBF	UNICR.BK AUS. 10-16 111	500,000	Free		
4	AT0000385067	E		CBL	OESTERREICH 01-11	91,275,000	Free		T
5	BE0000304130	E		CBL	BELGIQUE 04/35 44	-1,540,000	Pledged	Pledge	T
б	DE000AAR0017	E		CBF	AAREAL BANK MTN. HPF. S. 3	70,526,000	Free		T
7	DE000AAR0017	E		CBF	AAREAL BANK MTN. HPF. S. 3	-1,401,000	Appropriated	Appropriation	T
8	DE000AAR0041	E		CBF	AAREAL BANK IS 09/12	15,646,000	Free		T
9	DE000AAR0058	E		CBF	AAREAL BANK MTN. HPF. S. 38	-1,307,000	Pledged	Pledge	T
10	DE000AAR0074	E	<u> </u>	CBF	AAREAL BANK MTN. HPF. S. 56	282,000	Free		T
11	DE000AA01WF6	E		CBF	RBS NV 08/UND.0IL F.	24,000	Free		T
12	DE000AA1VQE9	E		CBF	RBS NV CA.BO.Z10 A20	7,000	Free		T
13	DE000A0AB826	E		CBF	RBS NV SILBER 03/UND	50,000	Free		T
14	DE000A0ACW46	E		CBF	LB.HESSTHUER.OPF 826	500,000	Free		T
15	DE000A0AD7F4	E		CBF	SDB IHS 09(09/12)	1,007,000,000	Free		T
16	DE000A0AD7G2	E	1	CBF	SDB IHS 09(09/12)	734,500,000	Free		T
17	DE000A0AEHR9	E		CBF	TS LAGO ONE GMBH 08/56 A	8,794,226,152.92	Free		T
18	DE000A0AHLK9	E		CBF	BERLIN, LAND LSA04/12A174	-550,000	Transferred EGC	Transfer EGC	
19	DEUUUPPUSAT	F		CRF	NT & II AFR7TFRE MTN 766	27 500 000	Free		þ

Figure 39: Tabular view - "Collateral Overview"

# 5.6.3. How to display Collateral

The "Display" function is used for this purpose. The corresponding information is displayed across several sections, which are illustrated below.

### 5.6.3.1. "Identification" section (Securities)

X 6335	- Display All	ocated	Security										<u> </u>
Code	German Sec	curities	Identification Code	s	in a	DAY4W			Allocatio	n Status	Active		
	Identification						Allocation						
Securi	ity												
Code	Code German Securities Identification			cation (	Code			Depositor	У				
SIN	A0AY4W					1,093 % LBBW IS.625VAR 06.0							
Туре	e E				Baske	t	:	Settlemer	nt Location	CBF			
Collate	eral Pool												
Partic	ipant		6335				ABC Ba	ink					
Client	Reference	BLZ	60050000 ACC	1234	4567		ABCA	BC.					
Tradin	ng Currency									Reference	e Currency		
Marke	et Price		1	09.85	%	Market Place				EUR	-		
Price	Туре		Eurex Valuation Ra	te		as of	07/	/01/2013					
Pool F	actor			1		Xemac Price		109.85	%	Exchan	ge Rate		1.00000
Index	ation Coeffici	iont	int 1										
		on								as of			07/01/2013
Nomir	nal Value		3,50	5,000	EUR								0.050.040.50
Marke	et Value		3,850,2	42.50	EUR					Market	value		3,850,242.50
													Close

Figure 40: Collateral - "Identification" section

This section summarises all details of the required collateral.

The fields are pre-filled as follows:

Header				
Name	Field status	Description		
Code	Output	This field contains the ID of a security. Depending on the default settings of the Xemac environment, the German Securities Identification Code, ISIN, Common Code or Cusip is displayed here.		
SIN	Output	The securities identification number of the collateral is displayed here.		
Allocation Status	Output	This field shows the allocation status of the collateral. It is blank if the collateral is free in the collateral pool or "Active" if it is allocated to a Claim.		

"Identification" section					
Name	Field status	Description			
[Security] Code	Output	This field contains the ID of a security. Depending on the default settings of the Xemac environment, the German Securities Identification Code, ISIN, Common Code or Cusip is displayed here.			
[Security] Depository	Output	The depository of the security is displayed here.			
[Security] SIN	Output	The securities identification number of the collateral is displayed here.			
[Security] Name	Output	The security description is displayed here.			
[Security] Type		The Type "T" or "E" is indicated here.			
[Security] Basket	Output	This field displays the basket short name.			
[Security] Settlement Location	Output	Either CBF for CASCADE/T2S or CBL for Creation is displayed here as Settlement Location.			
[Collateral Pool] Participant	Output	This field displays the Xemac participant number of the participant that holds the selected collateral.			
[Collateral Pool] [Name]	Output	Here, the name of the participant whose collateral pool holds the selected collateral is displayed.			
[Collateral Pool] Client Reference	Output	This field displays the Client Reference of the provider of collateral for the contract or Claim to which the collateral refers.			
[Collateral Pool] [Name]	Output	This field displays the name of the client of the provider of collateral for the contract or Claim to which the collateral refers.			
[Trad. Currency] Market Price	Output	The applied Market Price depends on the underlying Contract Definition.			
[Trad. Currency] Price Type	Output	Here, the quality of the price used for the valuation can be checked.			
[Trad. Currency] Pool Factor	Output	This field shows the pool factor of the security, which lies between 0 and 1. If no pool factor exists, the field will display 1.			
Indexation Coefficient	Output	This field shows the indexation coefficient of the security, if applicable. If no indexation coefficient exists, the field will display 1.			
[Trad. Currency] Nominal Value	Output	The nominal value of the collateral is displayed.			
[Trad. Currency] Market Value	Output	The market value of the collateral is displayed in the trading currency.			

Table 41: Field description of	f "Display Allocated Security"	view – "Identification"	section
--------------------------------	--------------------------------	-------------------------	---------

"Identification" section					
Name	Fieldstatus	Description			
Market Place		This field displays the marketplace where the instrument is traded and from which the price is received.			
[Trad. Currency] as of [Date]	Output	The date of the price is displayed.			
[Trad. Currency] Xemac Price	Output	The Xemac Price is the Market Price including the pool factor and the indexation coefficient			
[Ref. Currency] Reference Currency	Optional entry	An ISO code accepted by Xemac can be selected. The market value or collateral value is converted to the reference currency. The contents of the "Allocation" section remain unchanged.			
[Ref. Currency] Exchange Rate	Output	The determined exchange rate is displayed according to the reference currency			
[Ref. Currency] as of [Date]		The date of the exchange rate is displayed.			
[Ref. Currency] Market value		The market value of the collateral according to the reference currency.			

### 5.6.3.2. "Allocation" section

X 6335 - Display Allocated Security						
Code German Securities Identification	Code SIN AC	AY4W		Allocation Status	Active	
Identifi	cation			Alloca	tion	
Own Profile						]
Participant 6335	Nam	ie ABC Bank				
	Client Reference	e BLZ 600500	00 ACC 1234567	7		
Counterparty						
Participant 7500	Nam	EUREX CLEARIN	NG AG			
	Client Reference	ce				
Contract / Claim			Reference Curre	ency		
Own Contract No.	3					
Own Claim No.	30		EUR			
Haircut	5.6	%	Exchange Rate			1.00000
Cover Ratio	2.11	%	_			
Accrued Interest	0	EUR	as of			07/01/2013
Collateral Value	-3,634,628.92	EUR			_	
Valuation Date	08/01/2013		Collateral Value	e		3,634,628.92
						Close

Figure 41: Collateral – "Allocation" section

This section contains details of the counterparty and the contract, as well as of the Claim to which the selected collateral has been allocated.

The following information is displayed:

"Allocation" section	"Allocation" section					
Name	Field status	Comment				
[Own Profile] Participant	Output	The Xemac participant number of the user is displayed here.				
[Own Profile] Name	Output	The name of the user is displayed here.				
[Own Profile] Client Reference	Output	This field contains the client reference.				
[Counterparty] Participant	Output	Here, the Xemac participant number of the counterparty is displayed.				
[Counterparty] Name	Output	The name of the counterparty is displayed here.				
[Counterparty] Client Reference	Output	The Client Reference of the counterparty is displayed here.				
[Contract / Claim] Own Contract No.	Output	This field contains the own contract number assigned by the user.				
[Contract / Claim] Own Claim No.	Output	This field contains the own Claim number assigned by the user.				
[Contract / Claim] Haircut	Output	This field displays the haircut for the instrument that is applied within the allocation.				
[Contract / Claim] Cover Ratio	Output	This field displays the collateral value in proportion to the total Claim Amount				
[Contract / Claim] Accrued Interest	Output	The respective accrued interest is displayed in this field in the Claim currency.				
[Contract / Claim] Collateral Value	Output	The field displays the collateral value in the Claim currency.				
[Contract / Claim] Valuation Date	Output	The field displays the last valuation date of the Claim.				
[Ref. Currency] Reference Currency	Optional entry	An ISO code admitted in Xemac can be selected. The market value or collateral value is converted in the reference currency. The content of the "Allocation" section remains unchanged.				
[Ref. Currency] Exchange Rate	Output	The determined exchange rate is displayed in Euro.				
[Ref. Currency] As of [Date]	Output	The date of the exchange rate is displayed.				

"Allocation" section		
Name	Fieldstatus	Comment
[Ref. Currency]	Output	This field displays the collateral's market value in the
Collateral Value		reference currency.

### 5.6.4. Collateral Pool Value view

The "Collateral Pool Value" view shows, per Claim, the collateral value in Claim currency (not including the Claim Amount Premium) as well as the nominal value of free and eligible assets (CBF and/or CBL) that can be allocated to the given Claim. In order to support the Xemac participant's use of GC Pooling, this view provides further clarity by providing additional sum values of free "T" and free "E"' securities.

Own collateral ("E") is also displayed as an itemised listing with individual SIN, type "E", basket blank, settlement location CBF or CBL and corresponding nominal and collateral value in Claim currency.

Transferred collateral ("T") received in connection with GC pooling is displayed consolidated in one line and in one amount. In contrast to own collateral ("E"), there is no itemised listing of the relevant "T" collateral. The view shows one single line for the "T" position with the basket SIN, type "T", corresponding basket short name, settlement location blank, nominal of zero and collateral value of the relevant total.

The "Collateral Pool Value" view can be opened from the Claim Amount and Claim Number tabular views. In one of these views, the required Claim must be selected. Right-clicking on the Claim opens the context menu where the item "Collateral Pool Value" must be clicked to open the corresponding view.

Securities Description         Nominal Value         Collateral Value           JNICR.BK AUS. 11/14 MTN         10,000,000.00         10,217,756.7           ADWUERTT. LSA 05/15R         30,000,000.00         32,166,864.3           JAYERN         SA 05/135101         75,000,000.00         76,733,175.5           JAYERN         SA 05/135101         75,000,000.00         105,335,044.0           JAYERN         SA 06/145102         50,000,000.00         105,335,044.0           JD.LAENDER 26 LSA 07/14         100,000,000.00         52,749,570.2           JIEDERS.SCH.A 10/15 A211         30,000,000.00         51,775,638.7           AND NRW SCHATZORX434         48,000,000.00         49,453,474.5           RND NRW SCHATZORX434         45,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,10,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
JNICR.BK AUS. 11/14 MTN         10,000,000.00         10,217,756.7           3ADWUERTT. LSA 05/15R         30,000,000.00         32,166,864.3           3AYERN         SA 05/13S101         75,000,000.00         76,733,175.5           3AYERN         SA 06/14S102         50,000,000.00         105,335,044.0           3D.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           3D.LAENDER 20 LSA 08/15         40,000,000.00         52,749,570.2           WIEDERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           WIEDERS.SCH.A. 05/15 S203         100,000,000.00         51,744.6           MIEDERS.SCH.A. 05/15 S203         100,000,000.00         107,470,400.7           WIEDERS.SCH.A. 09/14 A.209         50,000,000.00         51,745,638.7           AND NRW SCHATZ02R434         48,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC EC ES         0.00         6,840,043,238.9
JNICR.BK AUS. 11/14 MTN         10,000,000.00         10,217,756.7           3ADWUERTT. LSA 05/15R         30,000,000.00         32,166,864.3           3AYERN         SA 05/13S101         75,000,000.00         76,733,175.5           3AYERN         SA 06/14S102         50,000,000.00         105,335,044.0           3D.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           3D.LAENDER 20 LSA 08/15         40,000,000.00         52,749,570.2           WIEDERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           WIEDERS.SCH.A. 05/15 S203         100,000,000.00         51,747,638.7           AND NRW SCHATZ02R434         48,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         6,840,043,238.9
BADWUERTT. LSA 05/15R         30,000,000.00         32,166,864.3           BAYERN         SA 05/13S101         75,000,000.00         76,733,175.5           BAYERN         SA 06/14S102         50,000,000.00         51,690,713.2           BAYERN         SA 06/14S102         50,000,000.00         51,690,713.2           BAYERN         SA 06/14S102         50,000,000.00         105,335,044.0           BD.LAENDER 26 LSA 07/14         100,000,000.00         43,597,444.6           BD.LAENDER 30 LSA 08/15         40,000,000.00         52,749,570.2           IIEDERS.SCH.A 10/15 A.211         30,000,000.00         107,470,400.7           IIEDERS.SCH.A 05/15 S203         100,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
BAYERN         SA 05/13S101         75,000,000.00         76,733,175.5           BAYERN         SA 06/14S102         50,000,000.00         51,690,713.2           BAYERN         SA 06/14S102         50,000,000.00         51,690,713.2           BD.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           BD.LAENDER 29 LSA 08/15         40,000,000.00         43,597,444.6           BD.LAENDER 30 LSA 08/14         50,000,000.00         52,749,570.2           IIEDERS.SCH.A.10/15 A.211         30,000,000.00         30.830,000.8           IIEDERS.SCH.A.05/15 S203         100,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         44,43,74.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC EC ES         0.00         6,840,043,238.9
SAVERN         SA 06/14S102         50,000,000.00         51,690,713.2           SD.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           SD.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           SD.LAENDER 29 LSA 08/15         40,000,000.00         43,597,444.6           SD.LAENDER 30 LSA 08/14         50,000,000.00         52,749,570.2           IIEDERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           IIEDERS.SCH.A.05/15 S203         100,000,000.00         107,470,400.7           IIEDERS.SCH.A.09/14 A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           IRSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
BD.LAENDER 26 LSA 07/14         100,000,000.00         105,335,044.0           BD.LAENDER 29 LSA 08/15         40,000,000.00         43,597,444.6           BD.LAENDER 30 LSA 08/14         50,000,000.00         52,749,570.2           BD.LAENDER 30 LSA 08/14         50,000,000.00         30,830,000.8           BD.LAENDER 30 LSA 08/14         50,000,000.00         30,830,000.8           BD.LAENDER 30 LSA 08/14         50,000,000.00         107,470,400.7           JIEDERS.SCH A. 05/15 S203         100,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
BD.LAENDER 29 LSA 08/15         40,000,000.00         43,597,444.6           BD.LAENDER 30 LSA 08/14         50,000,000.00         52,749,570.2           BD.ERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           BLEDERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           BLEDERS.SCH.A. 05/15 S203         100,000,000.00         107,470,400.7           BLEDERS.SCH.A. 09/14 A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
3D.LAENDER 30 LSA 08/14         50,000,000.00         52,749,570.2           NIEDERS.SCH.A. 10/15 A.211         30,000,000.00         30,830,000.8           NIEDERS.SCH.A. 05/15 S203         100,000,000.00         107,470,400.7           NIEDERS.SCH.A. 09/14 A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         15,510,771.4           OG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
IIEDERS.SCH.A.10/15.A.211         30,000,000.00         30,830,000.8           IIEDERS.SCH.A.05/15.S203         100,000,000.00         107,470,400.7           IIEDERS.SCH.A.09/14.A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
IEDERS.SCH.A.10/15.A.211         30,000,000.00         30,830,000.8           IIEDERS.SCH.A.05/15.S203         100,000,000.00         107,470,400.7           IIEDERS.SCH.A.09/14.A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
IEDERS.SCH.A.05/15 S203         100,000,000.00         107,470,400.7           IEDERS.SCH.A.09/14 A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           ERSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
IEDERS.SCH.A.09/14.A.209         50,000,000.00         51,775,638.7           AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
AND NRW SCHATZ02R434         48,000,000.00         49,453,474.5           RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
RSTE ABW. EO MTN 03/13         45,000,000.00         46,410,218.1           DG HYP OE.PF.R.944         15,000,000.00         15,510,771.4           UREX REPO EO GC ECB         0.00         6,840,043,238.9
DG HYP OE.PF.R.944 15,000,000.00 15,510,771.4 UREX REPO EO GC ECB 0.00 6,840,043,238.9
UREX REPO EO GC ECB 0.00 6,840,043,238.9
BERLIN, LAND LSA05/15A1 144,000,000.00 155,120,940.0

Figure 42: Collateral Pool Value view

The following table illustrates the field settings of the view:

Collateral Pool Value Window					
Name	Fieldstatus	Comment			
Own Claim No.	Output	Derived from selected Claim			
System Claim No.	Output	Derived from selected Claim			
Claim Amount	Output	Derived from selected Claim			
Relevant Claim Amount	Output	Derived from selected Claim			
SIN	Output	The securities identification number of the collateral (or the basket in the case of "T" collateral) is displayed in this column.			
Туре	Output	The type "T" or "E" is indicated here.			
Basket	Output	This column displays the basket short name only for "T" securities.			
Settlement Location	Output	The settlement location CBF or CBL for "E" collateral and blank for "T" collateral is indicated here.			
Securities Description	Output	Here the security description is displayed.			
NominalValue	Output	The nominal value of the collateral is displayed. In case of "T" collateral it is always zero.			
Collateral Value	Output	The column displays the collateral value in the Claim currency.			
Sum E - Collateral	Output	The field displays the sum of the collateral value of free own "E" collateral in the Claim currency.			
Sum T - Collateral	Output	The field displays the sum of the collateral value of free transferred "T" collateral in the Claim currency.			
Total Sum [of Collateral Values]	Output	The field displays the sum of the collateral value of own "E" and transferred "T" all eligible, free collateral in the Claim currency.			

### Table 43: Field description of "Collateral Pool Value" view

The "Save As Excel..." button enables the user to save the contents of the "Collateral Pool Value" view in an Excel file with two worksheets: "Collateral Pool Value" and "Claim Data".

The "Collateral Pool Value" worksheet will contain both the columns and the information from the table for eligible free collateral. The total will be displayed in the "Collateral Value" column at the bottom of the same worksheet with the corresponding exposure currency in the next column. The "Claim Data" worksheet shows the "Own Claim No.", "System Claim No.", "Claim Amount" and "Relevant Claim Amount" fields.

**Note:** Only SINs are displayed in this view for which the Nominal Value is greater than the Minimum Denomination.

# 5.7. Instructions: How to enter and remove Collateral

To cover Claims, only securities collateral from the Xemac collateral pool can be used. This section shows how to:

- Enter collateral in the collateral pool; and
- Remove collateral from the pool.

### 5.7.1. Brief description

It is possible to address the Xemac collateral pool via the following options:

- All customers can enter online "Instructions" to credit the collateral pool ("Credit Instructions") or debit the collateral pool ("Debit Instructions") for CBF and CBL assets. The movements in CASCADE/T2S take place between the main customer account (000) and the Xemac collateral sub-account (550) – respectively between the SAC, for example, DAKV6335000 and DAKV6335550; the movements in Creation between the Collateral Source Account(s) and the Reservation Account in CmaX (similar to sub-account 550 in CASCADE).
- There are two ways of crediting online CBL securities: by entering credit instructions with CBL as Settlement Location or by entering "Exposure Requests". Exposure Requests facilitate the booking of securities in the pool. The participant only needs to indicate the countervalue amount and the quality of securities that needs to be booked (for example, 50 mn in ECB Basket quality).
- Additionally, customers setup for connectivity (File Transfer, SWIFT or IBM Websphere MQ participants) can submit Xemac credit and debit instructions for CBF securities via the LIMA interface.

### 5.7.2. Views in Xemac

To display instructions, Xemac provides several predefined views, which cannot be altered.

The views describe the possible stages of any instruction. These stages may vary depending on the instruction mechanism (Online, Exposure Request, File Transfer, SWIFT or IBM Websphere MQ).

### 5.7.2.1. Tabular view: "Historical Credit/Debit Instructions"

This view displays all credit/debit instructions created by the user or by CBF over the last business days.

### 5.7.2.2. Tabular view: "Status not checked"

This view displays all unchecked online credit or debit instructions entered by a user. This view will not show debit or credit instructions made through File Transfer, SWIFT and IBM Websphere MQ as all such instructions have an immediate status of "Entry Checked".

### 5.7.2.3. Tabular view: "Instructions without PKS Notification"

This view displays all credit and debit instructions (entered through any existing mechanism) that have been sent to the respective settlement location (CASCADE/T2S or Creation) and are still awaiting feedback (settlement confirmation) from the position-keeping system. For example:

- Any instructions pending a future value date (CBF assets only);
- Any CBL instruction awaiting feedback from Creation settlement.

Debit or credit instructions entered online or through File Transfer, SWIFT or IBM Websphere MQ can be entered with future value dates. All such instructions will be visible in the "Instructions without PKS Notification" view between the entry date and the effective settlement date.

These instructions are automatically deleted on settlement date at the end of the relevant Xemac RTS Online period.

### 5.7.2.4. Tabular view: "Rejected Instructions"

This view displays all credit or debit instructions created by the user or CBF that have subsequently been rejected by the settlement systems (CASCADE/T2S or Creation). Rejected instructions are deleted automatically within Xemac after a certain number of business days and can then only be found under "Historical Instructions".

### 5.7.3. How to enter Collateral in the Collateral Pool

### 5.7.3.1. Entry of Instructions

One way to enter securities in the collateral pool is by using the "New Credit Instruction" function. Credit instructions move securities to the sub-account 550 in CASCADE/T2S or to the Reservation Account in CmaX.

The following example shows how to enter credit instructions online:

Assumption: The user would like to enter securities with ISIN DE0001030559 for a Nominal of 100,000 into the collateral pool with a required Client Reference.

First, it is necessary to assign an **Instruction Number** between 1 and 799999 (in this example, 17756) in the "Credit Instruction" section:

🔀 6335 - New Credi	it Instruction					<u>- 0 ×</u>
Participant	6335 I	nstruction No.				
Credi	it Instruction		Accounts	Proc	essing Informatio	n
Instruction No.	17756					
Code	ISIN					
SIN	DE0001030559	]	0,49793 % BUNDANL.V. 14/30 INF	L.LKD		
Depository						
Nominal Value		100,000				
Date			Additional Information			
Settlement Date 24/01/2017						
			Message Reference			
Comment						
Rejection						
No.	Reason					
					ОК	Cancel

Figure 43: Credit Instruction - "Credit Instruction" section

An error message will be issued if this field is not filled in or if the given instruction number was already used on the same day.

The securities identification number of the security must be entered in the **SIN** field in the format indicated in the "Code" field (in this example, DE0001030559), with the **Nominal Value** (100,000). The user may also enter additional information for this instruction in the **Comment** field.

The current date is displayed in the **Settlement Date** field by default. The user can modify the date for a future settlement. The entry must be a bank working day and no back-dated entries are allowed.

Se	Select date 🗙								
	<<	< January 2017							
1	٥N	Tu	We	Th	Fr	Sa	Su		
	26	27	28	29	30	- 31	1		
	2	3	4	5	6	7	8		
	9	10	11	12	13	- 14	15		
	16	17	18	19	20	-21	-22		
	23	24	25	26	27	- 28	-29		
	30	31	1	2	3	- 4	5		
	Accept				0	Canc	el		

#### Figure 44: Credit Instruction - "Select Date"

The following table provides an overview of the information that will be displayed and what entries can be made in each field:

Header						
Name Field status		Comment				
Participant	Output	The Xemac participant number of the customer's institution is displayed here.				
Instruction No. Output		The instruction is identified by a unique number assigned by the user. This field is blank for a new credit instruction.				

### Table 44: Field description of "New Credit Instruction" view – Header

### Table 45: Field description of "New Credit Instruction" view - "Credit Instruction" section

"Credit Instruction" section							
Name	Fieldstatus	Comment					
Instruction Number	Input	The instruction is identified by a unique number assigned by the user.					
[Security] Code	Output	This field displays the code of a security: the German Securities Identification Code, ISIN, Cusip or Common Code.					
[Security] SIN	Input	Depending on the code, this field displays the securities identification number.					
[Security name]	Output	Security name is displayed here.					
[Security] Depository	Optional entry	The Depository of the security is displayed here.					
[Security] Nominal Value	Input	This field contains the nominal value of the collateral to be entered. The nominal value must be a multiple of the "Multiple Quantity" and equal or greater to the "Minimum Denomination" of the respective security.					
[Date] Settlement Date	Input	Current date is the default date. Can be modified by the user as explained above.					
[Additional Information] Transaction Reference	Output	The CmaX ID (TRCI) of the message exchanged between CmaX and Xemac.					
[Additional Information] Message Reference	Output	The unique reference of the message exchanged between CmaX and Xemac.					
Comment	Optional entry	It is possible to add further information to the credit instruction here.					
[Rejection] Rejection No.	Output	Display the rejection code.					
[Rejection] Reason	Output	Displays the rejection reason.					

### 5.7.3.2. Instructions for CBF Settlement Location

The "Accounts" tab contains the following fields that must be filled by the user:

- The **Settlement Location** must be selected by the user. Default is "CBF".
- The debit account and credit account are displayed to the participant.
- The "Original Instructor", "Account" and "Name" fields are entry fields for specific customers and are otherwise disabled for entry.
- The respective **Client Reference** must be selected by the user for the credit instruction. Alternatively, the client can be selected in the "Client" field. The field can also remain blank.
- A sample credit instruction is shown below for Client "ABCABC":

🔀 6335 - New Credit Instruction		
Participant 6335 Inst	ruction No.	
Credit Instruction	Accounts	Processing Information
Settlement Location		
Debit Account		
Account 6335 000 - Name	ABC Bank	
-Original Instructor		
Account	Name	
Credit Account		
Account 6335 550 - N	ame ABC Bank	
Client Refere	nce BLZ 60050000 ACC 1234567	<b>•</b>
c	ient ABCABC	<b></b>
		OK Cancel

Figure 45: Credit Instruction - "Accounts" section, Settlement Location "CBF"

"Accounts" section for Settlement Location CBF					
Name	Fieldstatus	Comment			
Settlement Location	Input	CBF is selected per default.			
[Debit Account] Account	Output	The CASCADE main account of the participant.			
[Debit Account] Name	Output	The name of the debit account holder is displayed here.			
[Original Instructor] Account	Output	This field displays the account of the originating party and is currently only available for specific customers.			
[Original Instructor] Name	Output	This field displays the name of the originating party and is currently only available for specific customers.			
[Credit Account] Account	Output	This field displays the account to which the collateral is credited (Xemac sub-account 550).			
[Credit Account] Name	Output	This field displays the name of the credit account.			
[Credit Account] Client Reference	Optional entry	This field displays the Client Reference of the beneficiary of the collateral. Selection of the Client Reference is essential for crediting securities to the respective collateral pool such that they are directly used within the corresponding Claim.			
[Credit Account] Client	Optional entry	This field displays the name of the beneficiary of this collateral.			

An overview of the entries in the "Accounts" section is as follows:

### 5.7.3.3. Instructions for CBL Settlement Location

When the settlement location is selected as "CBL", only valid Client References (containing BIC Source Account and Reservation Account) are available for selection by the user. If the system cannot find a valid Client Reference that matches the input, it generates an error message. This prevents the entry of credit instructions with settlement location as "CBL" against an invalid Client Reference.

The Xemac participant number and name are displayed automatically. Xemac prompts the user to enter the source account number. The user must enter here the **Source Account** number from which the securities must be moved to the Reservation Account in CmaX.

The selection of the respective Client Reference can be found in section <u>5.7.3.2 "Instructions for</u> <u>CBF Settlement Location"</u>.

🔀 6335 - New Credit Instructi	ion						
Participant 6335	ins	truction No.					
Credit Instruction Accounts Processing Information							m
Settlement Location 🔍 CBF 💿 CBL							
Debit Account							
Participant 6335	-	Name ABC B	ank				
Source Account	54321						
Credit Account							
		Client Referen	ce BLZ	60050000 ACC	1234567		-
Reservation Account	12345	Clie	ent ABC	ABC			•
						ОК	Cancel

Figure 46: Credit Instruction - "Accounts" section, Settlement Location "CBL"

The following table provides the overview of the entries required for the credit of a CBL security:

#### Table 46: Field description of "New Credit Instruction" view - section "Accounts" section for CBL

"Accounts" section for Settlement Location CBL						
Name	Fieldstatus	Comment				
Settlement Location	Input	The user must select "CBL" as Settlement Location.				
[Debit Account] Participant	Output	This field displays the Xemac participant number.				
[Debit Account]	Output	Displays the name of the debit account holder.				
Name						
[Debit Account]	Input	This field should contain the Creation source account				
Source Account		number from which the securities are to be transferred in favour of the Reservation Account.				
[Credit Account]	Output	This field displays the Reservation Account number as				
Reservation Account		saved in the Xemac Client Reference.				
[Credit Account]	Optional entry	This field displays the Client Reference of the				
Client Reference		beneficiary of the collateral. Selection of the Client Reference is essential for crediting securities to the respective collateral pool such that they are directly used within the corresponding Claim.				
[Credit Account]	Optional entry	This field displays the name of the beneficiary of this				
Client		collateral. Either the client or the respective Client Reference must be selected. The corresponding field is automatically selected.				

#### **Entry of manual Exposure Request** 5.7.3.4.

This functionality is available to participants holding assets in the Creation environment at CBL who want to use the "Auto-Allocation" mechanism offered by CmaX.

An "Exposure Request" can be entered by right-clicking on the "Exposure Requests" icon and selecting "New". The entry of an instruction number, the value of the assets required and basket quality (that is, "ECB", "CTDESP", "CTDFRA", "CTDGER", "CTDITA", "EGCP", "EGCPX", " ", "GCP Equities" or "GCP INT MXQ") is required. The comment field is optional. On the "Accounts" tab, the user must select the corresponding Client Reference to which the credit of ISINs is required.

After the "Exposure Request" is entered, it must be checked by the second user as part of foureyes principle. As soon as the "Exposure Request" is checked, it is sent to CBL for the selection of ISINs that match the basket and value requested.

🔀 6335 - New Exposure	Request						<u>_ 0 ×</u>
Participant	6335	Instruction No.					
Exposure	Request		Accour	its	/	Processing Infor	mation
Instruction No.	1234				Туре	Manual	
Amounts							
Requested Amount	t	1,000,000	EUR	Required Amou	nt		EUR
Basket	ECB ECB	-					
Currency Con	EGCP EGCPX GCP CTD						
Date	GCP EQUITIES GCP INT MXQ		Ac	Iditional Information			
Settlement Date 14	4/01/2015			System Claim No.			
Settlement Date	101/2015			RTS Instruction No.			
Comment							
Rejection							
No.	Reason						
						ОК	Cancel

The tab-page "Exposure Request" is depicted below:

Figure 47: Manual Exposure Request - "Exposure Request" section, Basket "ECB"

An overview of the entries in the section "Exposure Request" is as follows:

Header					
Name	Field status	Comment			
Participant	Output	The Xemac participant number of the customer's institution is displayed here.			
Instruction No.	Output	The instruction is identified by a unique number assigned by the user. This field is blank for a new exposure request.			

"Exposure Request" section						
Name	Field status	Comment				
Instruction No.	Input	The instruction is identified by a unique number assigned by the user.				
Туре	Output	The type is always "Manual" for a manual exposure request.				
[Amounts] Requested Amount	Input	Here the value of the assets required from CmaX must be entered.				

"Exposure Request" section			
Name	Field status Comment		
[Amounts] Required Amount	Output	The field contains the calculated amount required for RTS and under-coverage types.	
[Amounts] Basket	Input	The field specifies the basket for the requested securities.	
[Date] Settlement Date	Output	Current date is the default date.	
[Additional Inform.] System Claim No.	Output	This field contains the System Claim No. It is always blank for a manual exposure request.	
[Additional Inform.] RTS Instruction No.	Output	This field contains the RTS Instruction No. It is always blank for a manual exposure request.	
Comment	Optional entry	It is possible to add further information to the credit instruction here.	
[Rejection] Rejection No.	Output	Displays the rejection code.	
[Rejection] Reason	Output	Displays the rejection reason.	

An "Exposure Request" is always sent to CmaX in the reference currency EUR. But, as Xemac is multi-currency capable, a "Selected Currency to Euro" currency converter view can be accessed by clicking on the "Currency Converter" button.

X Selected Curre	ncy to Eu	ro		×
Entry Amount		1,00	00,000	USD 🔻
Exchange Rate		1.	17820	
as of		13/01	/2015	
Amount		848,7	52.33	EUR
Transfer				Close

Figure 48: Manual Exposure Request - "Accounts" section

In this view, a currency other than EUR can be selected from the dropdown list. Then, the required value in the selected currency can be entered in the "Entry Amount" field. By using the visible exchange rate, Xemac directly converts the entered amount into the reference currency EUR displayed in the "Amount" field. By clicking on the "Transfer" button, this EUR amount will be transferred to the "Requested Amount" field of the "New Exposure Request" view so that a request can be sent to CmaX with this converted currency amount.

The "Accounts" tab is shown below:

🔀 6335 - New Exposure Re	equest						
Participant 63	335	Instruction No.					
	winant	Accou	wto		Drag	oggin <i>u</i> Informati	
Exposure Re	quest	ACCOU	ints		PIUC	essing Informati	UN
Credit Account							
<b>.</b>	0005						
Participant	6335 👻	Name	ABC B	ank			
		Client Reference	BLZ	60050000 A	ACC 12345	i67	•
Reservation Account	12345	Client	ABC	АВС			•
						ок	Cancel

Figure 49: Manual Exposure Request - "Accounts" section

An overview of the entries in the "Accounts" section is as follows:

"Accounts" section			
Name	Fieldstatus	Comment	
[Credit Account] Participant	Output	This field displays the account of the participant in Xemac.	
[Credit Account] Name	Output	Displays the name of the credit account holder.	
[Credit Account] Reservation Account	Output	This field displays the Reservation Account number as saved in the Xemac Client Reference.	
[Credit Account] Client Reference	Optional entry	This field displays the Client Reference of the beneficiary of the collateral. Selection of the Client Reference is essential for crediting securities to the respective collateral pool such that they are directly used within the corresponding Claim.	
[Credit Account] Client	Optional entry	This field displays the name of the beneficiary of this collateral. Either the client or the respective Client Reference must be selected. The corresponding field is automatically selected.	

### Table 49: Field description of "New Exposure Request" view - "Account" section

If the "OK" button is clicked, the exposure request is saved and sent to CmaX. If the window is closed with the "Cancel" button, the entries will not be saved and the window will be closed.

As soon as securities are booked on the Reservation Account in Creation, the ISINs and nominal satisfying the Exposure Request are notified to Xemac. Corresponding credit instructions with settlement location "CBL" are automatically triggered in Xemac. These instructions, when viewed through the "View of Credit Instructions", display the exposure number in the "Comments" field (in the example, "WG. EXPOSURE NO. 0000001234").

The Exposure Requests generated through this mechanism are of the "as much as possible" (AMAP) type. This implies that, when the countervalue of the available ISINs (corresponding to the requested basket) is smaller than the requested amount, the collateral management system will still send a collateral notification to the extent possible. Thus, where a user has requested, for example, 100 mn of "EGCP" assets, it is possible that assets worth only 60 mn may is credited to pool. Provided that additional assets are delivered in Creation on the Collateral Source Account, the user can initiate another manual exposure for the differential amount.

If there are no assets available on the Collateral Source Account, the Exposure Request will be rejected with "Collateral Insufficiency".

In order to use this functionality efficiently, customers must be set up as AutoAssign (also named "Auto-Allocation") in the contract setup in CmaX. This is irrespective of whether the "Automatic Provisioning" flag is selected in the Xemac Client Reference.

### 5.7.3.5. File Transfer/SWIFT/ IBM Websphere MQ Instruction Mechanism

To transmit debit or credit instructions for CBF assets through File Transfer, SWIFT or IBM Websphere MQ, the MT542 (ISO 15022) message type is used. The following are the key points regarding the functionality.

Functionality	Description
Instruction	Entered from 07:00 till 17:40.
Timings	<ul> <li>Any instructions delivered outside these opening hours will be rejected.</li> </ul>
Entry Checks	<ul> <li>Successful instructions transmitted to Xemac with immediate status of "Entry Checked".</li> </ul>
	<ul> <li>Failed instructions will be "Rejected". Unlike with online instructions, German Ä, Ö and Ü characters are not acceptable.</li> </ul>
Deletion or Modification of instructions	<ul> <li>Not possible. After successful bookings in RTS, reverse bookings can be performed.</li> </ul>
Key characteristics	Delivery Free of Payment.
of securities transfer	<ul> <li>Instruction type will be 01 and Securities transfer type (COLO/COLI).</li> </ul>
	Settlement type will be RTS only
Instructions value date	Current date or future value date.
Rejected Instructions	<ul> <li>Pending credit instructions are rejected on settlement date at the end-of-day.</li> </ul>
	<ul> <li>Debit instructions for which substitutions cannot be performed due to lack of collateral are rejected end-of-day.</li> </ul>

Table 50: File Transfer/SWIFT instruction mechanism

### **Receipt of instructions via Xemac**

Table 51: Description of the Xemac behaviour depending on the instruction settlement date

Value date	Description	
Value date today	<ul> <li>The credit instructions are immediately transferred to CASCADE/T2S.</li> </ul>	
	• For the debit instructions, if "held free" securities are available, the instructions are immediately transmitted to CASCADE/T2S.If no "held free" securities are available, the instructions are transmitted to CASCADE/T2S as blocked instructions and the settlement block will be removed from CASCADE/T2S by Xemac after successful completion of an automatically triggered substitution.	
Future value date	• For credit instructions, on settlement date, the instructions will settle if the balance is available on the account.	
	• For debit instructions, on settlement date, Xemac will try to settle the instructions and, when required, will start off the substitution process. Debit instructions will be rejected at the end of the day due to lack of "held free" securities available.	

### Substitution Processing

Substitutions are possible for all allocation types. If a substitution cannot be performed at the first attempt, Xemac will turn off automatic substitution. The processing order is as follows:

- Allocation types "Pledge" and "Appropriation";
- Allocation type "Transfer";
- Allocation type "Transfer EGC".

**N.B.:** When processing large quantities of debit instructions for which substitutions are required, the Xemac Client will be briefly unavailable in the affected Client Reference for the entry of debit/credit instructions, allocation and changes of Claim Amounts.

### **Remarks**

- The CASCADE KVAS FA function will not be available, as entry and removal of settlement block will be done by Xemac.
- As with other CASCADE instruction types, File Transfer, SWIFT and IBM Websphere MQ participants can receive confirmations/rejections via Remote Data Transmission.

The data fields that are part of the message formats are described separately in the Appendix to this document.

### 5.7.4. How to display a Credit Instruction

The "Historical Credit/Debit Instruction" and "View of Credit Instructions" tabular views provide information on the required credit instruction.

All fields of the "Credit" and "Accounts" sections are output fields and contain the entries described in section <u>5.7.3 "How to enter Collateral in the Collateral Pool"</u>.

The "Comments" field for any instruction helps to describe any user necessary information.

The following table shows the texts of the status bar depending on the instruction status:

Instruction Status	Text in status bar of full view	
"System"	Instruction has been transferred to the position-keeping system (PKS) for disposition.	
"Execution"	The instruction was executed successfully.	
	The instruction could not be executed.	
	It was rejected in CASCADE/T2S.	
	A list of all possible rejection reasons is to be found in the UDFS from the ECB.	
"Rejected"	The instruction was rejected in Creation due to:	
	Collateral insufficiency;	
	Settlement issues;	
	Security not in eligibility basket.	

#### Table 52: Text of status row depending on the instruction status

### 5.7.5. How to modify a Credit Instruction

The "Edit" function enables the user to modify online credit instructions that have not yet been checked. Credit instructions made through File Transfer, SWIFT or IBM Websphere MQ cannot be modified.

An online credit instruction must be new or modified and, in either case, not yet checked.

By selecting the instruction via the "Status not checked" tabular view, it is possible to modify the original entries on the collateral (**SIN, Nominal Value**) and the client (**Client Reference, Client**). The Comment can also be modified.

By clicking on the "OK" button, the processed instruction is checked and accepted by Xemac. This instruction is given "Entry" status.

If the screen is closed with the "Cancel" button, the changes will not be saved.

### 5.7.6. How to check Credit Instructions

In the case of online instructions, the "Check" function transfers the movement request to the position-keeping system (CASCADE/T2S or Creation), for processing.

Credit instructions routed through File Transfer, SWIFT or IBM Websphere MQ do not need to be "Checked" as they have an immediate status of "Entry Checked".

An online credit instruction must be new; modified or rejected and, an all cases, not created or modified by the same user.

The check is carried out via the **"Status not checked"** tabular view. The row(s) to be checked are first selected. Within this tabular view multiple selection is possible. Right-clicking on the "Check" button performs the "Check". The user should confirm the "Should the marked lines be checked?" message.

An error message will be displayed if the selected area contains rows that do not have the appropriate status or were created/modified by the same user.

On confirmation of the check with "Yes", the instruction will receive the "Entry Checked" status.

If the check is terminated by clicking on "No", the selection will not be saved.

Checked credit instructions that cannot be processed in the position-keeping system(s) on posting date will automatically be deleted during the overnight batch. Xemac labels such instructions with "Rejected".

The checked credit instructions (via all mechanisms) are displayed in the "Historical Instructions" view for up to 12 business days after their entry. Xemac deletes these instructions at the end of this period.

### 5.7.7. How to delete Credit Instructions

It is possible to delete the following online instructions:

- Newly created instructions that have not yet been checked;
- Modified instructions that have not yet been deleted or have already been rejected.

All users, including the person entering the instruction, can delete newly created instructions that have not yet been checked.

To delete an online credit instruction, it must be selected in the "Status not checked" tabular view. Right-clicking and selecting "Delete" performs the required deletion.

If closed with "Cancel", the instruction remains unchecked or rejected.

In Xemac, instructions entered through File Transfer, SWIFT or IBM Websphere MQ cannot be deleted.

### 5.7.8. How to reject Credit Instructions

Newly created or modified online credit instructions can be rejected if, while checking, the information is found to be not correct. Credit instructions routed through File Transfer, SWIFT or IBM Websphere MQ cannot be rejected as they reach Xemac directly with "Entry Checked" status.

Rejection is carried out via the "Status not checked" tabular view. Multiple selection is possible and the row(s) to be rejected must be selected and confirmed via the "Reject selected rows?" window provided by Xemac.

If one or more rows are selected that do not meet the required validation checks, the system will issue a corresponding error message to be deactivated with the "OK" button. Xemac will then process the correct rows and give the rejected instructions the "Entry Rejected" status.

If the user terminates the rejection with the "No" button, the selected instructions remain unchanged.

### 5.7.9. Debit Instructions

For debit instructions through File Transfer, SWIFT or IBM Websphere MQ, the immediate status is "Entry Checked". Hence, like credit instructions, these cannot be modified, checked, deleted or rejected.

For online debit instructions, the procedure to move collateral from the collateral pool into the main CASCADE account is the same as for online credit instructions. This also applies to the display, processing, checking, deletion and rejection of the debit instructions.

The online debit instruction is first created or changed; then checked or rejected; and finally executed or rejected by the position-keeping system.

It is not possible to debit "T" securities from the pool.

When the user selects a security to debit from one of the collateral views ("Allocated Collateral", "Collateral Overview" or "Collateral Positions"), the ISIN, nominal, settlement date and settlement location are automatically pre-selected. The user can change the nominal and settlement date. It is also possible to enter debit instruction for a future date. A debit instruction entered for a security currently allocated leads to the generation of required substitution instructions.

When entering a debit instruction from the Xemac "Instructions" menu, the fields are empty and can be filled by the user as needed:

🄏 6335 - New Deb	it Instruction					_ 0 >
Participant	6335	Instruction No				
Deb	it Instruction		Accounts	Proc	cessing Information	on
Instruction No. Security	17757					
Code	ISIN					
SIN	DE0001030559		0,49759 % BUNDANL.V. 14/	30 INFL.LKD		
Depository						
Nominal Value		100,000				
Date			Additional Information			
Settlement Date	25/01/2017	<b>•</b>	Transaction Reference	ce		
			Message Reference			
Comment						
Rejection						
No.	Reason					
					ок	Cancel

Figure 50: New Debit Instruction - Fields empty

The following table provides an overview of the information that will be displayed and what entries can be made in each field:

Header			
Name	Field status	Comment	
Participant	Output	The Xemac participant number of the customer's institution is displayed here.	
Instruction No.	Output	The instruction is identified by a unique number assigned by the user. This field is blank for a new debit instruction.	

Table 53: Field description	of view "New Debit	Instruction" – Header
Tuble oor i letu uebeription	of field field bear	inotraction neader

### Table 54: Field description of "New Debit Instruction" view - "Debit Instruction" section

"Debit Instruction" section			
Name	Fieldstatus	Comment	
Instruction No.	Input	The instruction is identified by a unique number assigned by the user.	
[Security] Code	Output	This field displays the code of a security: the German Securities Identification Code, ISIN, Cusip or Common Code.	
[Security] SIN	Input	Depending on the code, this field displays the securities identification number.	
[Security name]	Output	Here the name of the security is displayed.	
[Security] Depository	Output	The depository of the security is displayed here.	
[Security] Nominal Value	Input	This field contains the nominal value of the collateral to be entered. The nominal value must be a multiple of the "Multiple Quantity" and equal or greater to the "Minimum Denomination" of the respective security.	
[Date] Settlement Date	Input	Current date is the default date. Can be modified by the user as explained above.	
[Additional Information] Transaction Reference	Output	The CmaX ID (TRCI) of the message exchanged between CmaX and Xemac.	
[Additional Information] Message Reference	Output	The unique reference of the message exchanged between CmaX and Xemac.	
Comment	Optional entry	It is possible to add further information to the debit instruction.	
[Rejection] Rejection No.	Output	Displays the rejection code.	

"Debit Instruction" section		
Name	Field status	Comment
[Rejection] Reason	Output	Displays the rejection reason.

Depending on the settlement location, the "Accounts" tab undergoes a change in view. When the settlement location is CBF, the standard debit account and credit accounts displayed are the CASCADE accounts (for example 6335 550 and 6335 000), as seen in the figure below.

🔀 6335 - New Debit Instruction		
Participant 6335	nstruction No.	
Debit Instruction	Accounts	Processing Information
Settlement Location		
Debit Account		
Account 6335 550 - Name	ABC Bank	
Client Reference	BLZ 60050000 ACC 1234567	
Client	ABCABC	•
Account 6335 000 Name ABC Bank		
Beneficiary		
Account	Name	
		OK Cancel

Figure 51: New Debit Instruction - "Accounts" section, Settlement Location "CBF"

For an instruction with settlement location as CBL, for debit account, the Reservation Account is displayed for the respective Client Reference. The Xemac participant number is displayed for the credit account, along with the BIC or Source Account, on a case-by-case basis.

🔀 6335 - New Debit Iı	nstruc	tion								<u>_     ×</u>
Participant	633	15	Inst	truction No.						
Debit Ir	notruo	tion			Å.c.o	ounts		Drov	cessing Informati	on
Depit ir	nsuluc	uun			ACC	ounts		PIU	cessing ini oi mau	
Settlement Locatio	m	⊖ CBF	● CBI	-						
Debit Account										
				Client Refere	ence	BLZ	60050000 ACC	> 1234567		-
							00000007.00	1204001		
Reservation Acco	unt	12345		C	lient	ABCA	BC			-
Credit Account										
Creak Account										
Participant	633	5		N	ame	ABC B	ank			
Source Account		543	21							
Source Recount										
									ОК	Cancel

Figure 52: New Debit Instruction - "Accounts" section with Source Account, Settlement Location "CBL"

🔀 6335 - New Debit Instru	uction					
Participant 63	335 Inst	ruction No.				
Debit Instru	uction	Acc	counts	Proc	essing Information	on
Settlement Location	⊖ CBF					
Debit Account						
		Client Reference	BLZ 60050000 AC	2 1234567		-
Reservation Account	12345	Client	ABCABC			<b></b>
Credit Account						
Participant	6335 🗸	Name	ABC Bank			
Bank Identifier Code	ABCDEF99					
					ОК	Cancel

Figure 53: New Debit Instruction -"Accounts" section with BIC, Settlement Location "CBL"

# 5.7.10. Functions available depending on the status of the credit or debit instructions

#### 5.7.10.1. Online instructions

The available functions depend on the status of the credit or debit instruction. The following table is an overview of all combinations of status and available functions:

Table 55: Available function/Status of Online instructions

Available function depends on status of fisti detron					
Function/Status of instruction	Entry	Entry checked	Entry rejected	PKS notification Issued/PKS notification Rejected	
Display	Yes	Yes	Yes	Yes	
Process	Yes		Yes		
Delete	Yes		Yes		
Check	Yes		Yes		
Reject	Yes				

Available function depends on status of instruction

#### 5.7.10.2. SWIFT, IBM Websphere MQ or File Transfer instructions

Unlike online instructions, there are restrictions on modifying, deleting, checking or rejecting File Transfer, SWIFT or IBM Websphere MQ instructions.

The following table is an overview of all combinations of status and available functions:

#### Table 56: Available function/Status of File Transfer, SWIFT or IBM Websphere MQ instruction

Available function depends on status of instruction				
Function/Status of instruction	Entry	Entry Checked	Entry Rejected	PKS notification Issued/PKS notification Rejected
Display		Yes		Yes
Process				
Delete				
Check				
Reject				

# **5.8. Reports**

This section shows how to display report definitions and to generate, save, print and delete reports.

### 5.8.1. Brief description

Xemac enables the user to activate predefined reports for each area, for example, for Claims or Collateral.

The reports can be broken down according to their source of origin into:

- Reports from tabular views;
- Reports defined by CBF (Xemac Default Reports)

A report can be generated automatically at a predefined point in time or manually directly on request.

If required, the reports for allocated collateral and collateral pool can be limited to one Client Reference by using the "Allocated Collateral per CRef" and/or "Collateral Pool per CRef". Likewise, the "Eligible Securities per CDef" report enables the user to generate the list of assets eligible for the selected Contract Definition.

#### 5.8.2. Views in Xemac

Report definitions and generated reports are displayed in predefined views. These cannot be modified by the user.

The "Generated Reports" view is selected as default view.

The views described hereafter refer both to the report definitions made available to the user and to the generated reports.

#### 5.8.2.1. Report definitions

This tabular view displays all report definitions made available to the user. It includes all report definitions provided by Xemac.

<pi< th=""><th>ease select valu</th><th>1e&gt; 💌 = 💌</th><th></th><th></th><th></th><th></th><th>+ - Reset Filter</th></pi<>	ease select valu	1e> 💌 = 💌					+ - Reset Filter
<b>₩</b>	Report No.	Name	Origin	Automatic Archiving	Automatic Report Generation	Period	Point in Time
1	201000033	Allocated Collateral	Xemac	-	Active	Daily	End of Day
2	201000034	Allocated Collateral per CRef	Xemac	(H)	-	Daily	After morning re-evaluation
3	201000032	Allocation Changes	Xemac	Active	Active	Daily	End of Day
4	201000032	Allocations	Xemac	Active	Active	Daily	End of Day
5	201000033	Claim Amount	Xemac		Active	Daily	End of Day
6	201000034	Collateral Overview	Xemac		Active	Daily	End of Day
7	201000032	Collateral Pool	Xemac	Active	Active	Daily	End of Day
8	201000034	Collateral Pool per CRef	Xemac	( <b>-</b>	-	Daily	End of Day
9	201000034	Collateral Positions	Xemac	)=	- 2	Daily	End of Day
10	201000032	Credit and Debit Instructions	Xemac	Active	Active	Daily	End of Day
11	201000032	Current Claims	Xemac	Active	Active	Daily	End of Day
12	201000034	Daily Change Global Amount	Xemac	Active	Active	Daily	End of Day
13	201000034	Eligible Securities per CDef	Xemac	-	2	Daily	After morning re-evaluation
14	201000033	Historical Allocation Instructions	Xemac	-	-	Daily	After morning re-evaluation
15	201000032	Rejected Instructions	Xemac	-	2	Daily	After morning re-evaluation

Figure 54: Current Report Definitions view

#### 5.8.2.2. Generated Reports

This tabular view contains all reports that were generated during the last 12 business days. They are made available by the server files.

The user ID of the user who generated the report is entered in the example as 6335111111. The reference "MASCHINELL" appears for automatically generated reports. The "Additional Information" column shows either the corresponding Client Reference or the Contract Definition for which the report was generated.

Filter Options								
<please select="" value=""></please>								
ţ,	Participant No.	Name	Additional Information	Report No.	Date of Generation	Time of Generation	User	Number of Lines
1	6335	Eligible Securities per CDef	Clearstream Securities Lending	2008000237	26/02/2010	12:08:03	6335111111	43595
2	6335	Eligible Securities per CDef	Übereign. m. Best.übertrag w. EuGCP	2008000237	26/02/2010	12:05:57	6335111111	13964
3	6335	Eligible Securities per CDef	Eurex margining	2008000237	26/02/2010	12:03:29	6335111111	34775
4	6335	Eligible Securities per CDef	Deutsche Bundesbank	2008000237	26/02/2010	12:00:32	6335111111	43734
5	6335	Collateral Pool per CRef	BLZ 60050000 ACC 1234567	2000000049	26/02/2010	11:59:37	6335111111	193
6	6335	Allocated Collateral per CRef	BLZ 60050000 ACC 1234567	2000000022	26/02/2010	11:59:04	6335111111	5
7	6335	Deletion by System		1999001087	26/02/2010	07:29:16	MASCHINELL	0
8	6335	Collateral Overview		1999001084	26/02/2010	07:29:16	MASCHINELL	0
9	6335	Daily Change Global Amount		1999001113	25/02/2010	13:07:27	MASCHINELL	0
10	6335	Collateral Positions		1999001109	25/02/2010	13:07:09	MASCHINELL	2589
11	6335	Claim Amount		1999001097	25/02/2010	13:07:09	MASCHINELL	92
12	6335	Allocated Collateral		1999001091	25/02/2010	13:07:08	MASCHINELL	235
13	6335	Collateral Pool		1999001085	25/02/2010	13:06:09	MASCHINELL	2589
4	6335	Current Claims		1999001083	25/02/2010	13:06:09	MASCHINELL	92
15	6335	Credit and Debit Instructions		1999001082	25/02/2010	13:06:08	MASCHINELL	30
.6	6335	Allocation Changes		1999001081	25/02/2010	13:05:56	MASCHINELL	26
.7	6335	Allocations		1999001080	25/02/2010	13:05:51	MASCHINELL	235
.8	6335	Deletion by System		1999001087	25/02/2010	07:27:36	MASCHINELL	0
.9	6335	Collateral Overview		1999001084	25/02/2010	07:27:36	MASCHINELL	0
:0	6335	Daily Change Global Amount		1999001113	24/02/2010	13:06:45	MASCHINELL	0

#### Figure 55: Generated Reports view

#### 5.8.3. Processing Reports

#### 5.8.3.1. General comments

The functions for report definitions, that is, Display and Generate, can be requested via the **"Report Definition"** tabular view.

The functions for generated reports, that is, Display, Save As CSV, Save As Excel, Save As HTML, Save As PDF, Save As TXT, Save As XML, Page Setup, Print and Delete, can be requested via the **"Generated Reports"** tabular view.

The user cannot modify the format of the columns.

Xemac deletes generated reports after 12 business days in the "Generated Reports" tabular view. It is possible to delete generated reports at any time, regardless of this time limit.

The following reports are automatically generated in Xemac:

- Allocated Collateral;
- Allocation Changes;
- Allocations;
- Claim Amount;
- Collateral Overview;
- Collateral Pool;
- Credit and Debit Instructions;
- Current Claims;
- Daily Change Global Amount;
- Detailed Claim Amount CMSI (if applicable).

These reports are made available to the user during the stipulated period (up to 12 business days).

#### 5.8.3.2. Microfiches

All Xemac Default Reports are made available as microfiches.

The microfiches are made available after the batch run in the evening of the tenth and the 20th of a month and at the end of each month. They cover all default reports that were generated after the last deadline. If one of the days is a Saturday, Sunday or public holiday, the microfiches are generated on the following business day.

#### 5.8.3.3. How to display a report definition

The reference currency is always displayed in EUR. The Security Identification Code is always presented in the format defined within the "Settings" screen.

6335 - Display Report		
eport No. 201300008 N	ame Allocated Collateral	Participant 633
	Schedule	
Name	Allocated Collateral	
Reference Currency	Code	
ISO Code EUR	ISIN	
Automatic Archiving	Active	
Automatic Report Generation	Z Active	
Period	Daily	
Generation Time		
O After morning re-evaluation		
End of Day		
		Close

Figure 56: Reports - "Schedule" section

If the **Automatic Report Generation** checkbox is checked, the report is automatically generated at the desired date and frequency. If this checkbox is unchecked, the report is only made available upon manual request. Xemac will return to the tabular view of the report definition with "Cancel". Section 5.8.3.4 <u>"How to generate a report"</u> describes this procedure in detail.

It is possible to request a specific **Generation Time** and **Period** and provide this information to CBF upon initialisation of the reporting profile when the above checkbox is checked.

The point at which reports will be generated can be selected within the following options:

#### Table 57: Time of Report Generation

Generation Time	Report Generation
After morning re-evaluation	The report is generated after the morning re- evaluation.
End of day	The reports are generated after Xemac opening hours.

The following frequency for report generation can be requested:

#### Table 58: Period of Report Generation

Frequency	Report Generation
Daily	Reports are generated on a daily basis.

The following table shows the pre-set fields of the "Schedule" section with the input possibilities for each field.

Header Reports				
Description	Field status	Comment		
Report No.	Output	This field contains the number assigned to the report by Xemac.		
Name	Output	The name of the report that is issued.		
Participant	Output	This field displays Xemac participant number.		

#### Table 60: Field description of "Display Report" view - "Schedule" section

"Schedule" section				
Description	Fieldstatus	Comment		
Name	Output	The description of the report must be specified.		
Automatic Archiving	Output	Displays if the Archiving function is activated. Values can be "—" or "Active".		
Automatic Report generation	Output	The report can be generated automatically at the specified time and frequency or manually. This field can be ticked as being "Active" or not.		
[Reference currency] ISO code	Output	This field is filled in with "EUR".		
Code	Output	The "German Securities Identification Code", "ISIN", "Cusip" or "Common Code".		
Generation Time	Output	Time at which report will be generated.		
[Period]	Output	Here the frequency is displayed for which the report is to be generated.		

#### 5.8.3.4. How to generate a report

Reports are immediately generated using the "Generate" function from the view "Report Definitions".

The immediate generation is carried out regardless of what is specified in the **Automatic Report Generation, Generation Time** and **Period** fields.

The user can generate several reports at once by highlighting the required report and selecting "Generate" in the context menu. Each generation must however be confirmed separately. The report is created after confirming the generation with "Yes".

Xemac provides no notification of report completion in the tabular view of the generated reports. For that purpose, it is necessary to change to this tabular view and refresh this view on a regular basis.

The function can be quit at any time with "Cancel".

#### 5.8.3.5. How to delete generated reports

The "Delete" function can be used in the "Generated Reports" tabular view to delete a generated report. Reports can only be deleted one at a time.

The selection must be confirmed in the "Do you really want to delete report <Name>?" pop-up window.

The highlighted report is irrevocably deleted with "Delete".

#### 5.8.3.6. How to save a generated report

The "Save As CSV", "Save As Excel", "Save As HTML", "Save As PDF", "Save As TXT" and "Save As XML" functions can be used to save a generated report.

The following table shows the fields of the "Save as TXT" window with the input possibilities for each field.

"File save into" window		
Description	Fieldstatus	Comment
Save as TXT	Mandatory	Here, the directory where the report should be saved is selected.
Group box Files	Output	All files of the displayed file type are on view here.
File Name	Mandatory	Pre-filled with "Participant no-Report Name_Date- Time.txt". The name can be altered individually.
File Type	Mandatory	Pre-filled with All Files. The type cannot be modified.

Table 61: Field description of "File save into" window

Xemac will propose a **File name** in the format "Participant no.-Report Name\_Date-Time.txt". The date or time refers to when the report was generated. The fields are returned in the format YYMMDD and HHMMSS. For example, the "Claim Amount" report for participant 6335 that was completed on 15 January 2017 at 18:15:22 has the file name "6335-Claim Amount\_170115-181522.txt".

It is possible to modify the **File name** and the proposed **Save As** target directory. Xemac will remember this directory and propose it the next time a view or report is to be saved. The directory is then also visible under the "Current Write Directory" field in the "Settings" view.

The file is saved in the selected directory by clicking on "OK".

By pressing the "Cancel", the user can return to the tabular view.

After output into the file, the saved report remains in the tabular view of the generated reports. The report can be printed out or saved several times.

#### 5.8.3.7. How to print generated reports

The "Print" function can be used to print a generated report. After selecting this function, the user will automatically change to the "Print" window. The procedure is the same as for standard user interfaces.

After the pages have been printed, the generated report remains in the tabular view of the generated reports. The user can print the report again at any time.

#### 5.8.4. Data Transmission Products Reporting

Apart from reports available in Xemac, customers have the possibility to order claim related reporting also via DVP ("Datenversandprodukt") products.

The first group of products is based on MT569 messages, where all the information regarding a customer's claim is available. The MT569 messages are generated on a daily basis and sent to the customer at the end of the day (around 18:15).

Customers can select from following types of reporting:

- **"Xemac Summary Collateral and Exposure Statement" (SUALCO)** contains information on the customer's claim in Xemac.
- **"Xemac Detailed Collateral and Exposure Statement" (DEALCO)** generated for each claim separately and contains comprehensive information on allocated collateral per claim in Xemac.

The second group is the extension of LIMA products for Xemac by two additional products "Exposure Management" ("EXPOMA") and "Collateral Management" ("COLLMA"), which will enable customers to receive real-time information about adjustments of their Xemac exposures and associated securities movements via MT558 messages.

For each Xemac customer, who wants to participate in the service and receive one or both type(s) of functional message(s), a setup for the appropriate new product(s) in LIMA "Produktnutzung" will be necessary. Xemac will provide LIMA with all necessary data for the generation of MT558 messages. If an active DVP product exists for the customer, LIMA will send the MT558 message to the defined customer's SWIFT address. These two DVP products will comprise the following functional messages:

- "Exposure Management" (EXPOMA)
- MT558 Processing Advice messages as response to MT527 Claim Adjustment request messages
- MT558 Claim Notification messages as confirmation to MT527 Claim Adjustment request messages or to manual claim adjustments via the Xemac client
- MT558 Claim Notification messages resulting from re-evaluation processes, processing of GCP trades and the CMSI business
- "Collateral Management" (COLLMA)
- MT558 Collateral Notification messages for all securities movements resulting from claim adjustments, other processes with automatic generation of allocation instructions (for example re-evaluation) or manual allocation instructions entered via the Xemac client.

# 5.9. Bubble Help

Xemac provides context-sensitive and fast on-screen Bubble Help.

The bubble help can be activated/deactivated via the "Settings" icon within the Xemac Main view.

#### How the Bubble Help works:

If the user wants to see the Bubble Help for an entry field, the mouse pointer must be brought over the field in question and the bubble help text will then pop up automatically.

# 6. Xemac in Clearstream's system environment

# 6.1. Settlement locations CBF and CBL

In order to make collateral available in the Xemac pool to collateralise a global amount for any Collateral Taker via Xemac, it is required to transfer positions.

Transfers of positions from a main account to a sub-account ("Credit Instructions") can be entered for the CBF (CASCADE/T2S) or CBL (Creation) settlement location. In a similar way, transfers of positions from a sub-account to a main account ("Debit Instructions") can be entered for both settlement locations.

### 6.1.1. CASCADE/T2S (CBF Settlement Location)

In CASCADE/T2S, positions are transferred from the CASCADE main account into the CASCADE sub-account 550 or vice versa (while the same movements are reflected on the T2S SAC account). Changes of position in the Xemac pool are first entered by Xemac in CASCADE/T2S and then, upon settlement feedback, reflected in Xemac.

#### 6.1.1.1. Credit Instruction

If a Collateral Provider wants to enter collateral in the Xemac collateral pool, the required information must be entered in the following fields in Xemac:

- Instruction Number;
- Securities Identification Number (either German Securities Identification Code, ISIN, Common Code or Cusip), nominal amount and comment;
- Credit account "xxxx 550" (where "xxxx" is the customer's participant number);
- Debit account "xxxx 000".

Xemac adds the following data to the details:

- Ultimate beneficiary (account number and name). This field is deduced from the participant details. The customer's Xemac participant number (corresponding to the participant no. of the instruction) and the name (data from KUSTA) are taken over;
- Instruction type "Securities Transfer" (01);
- Settlement date.

A credit instruction is subject to several plausibility checks (validations) in Xemac. After these checks, the instruction is entered in CASCADE as a securities transfer with settlement type "RTS" (free of payment). The instruction is first given the "Instruction without PKS notification" status. Upon settlement feedback, the change of positions (transfer) is reflected in Xemac.

**Note:** Instructions originated from Xemac cannot be modified in CASCADE/T2S.

### 6. Xemac in Clearstream's system environment

#### 6.1.1.2. Debit Instruction

If the Collateral Provider wants to remove collateral from the Xemac collateral pool, the required information must be entered in the following fields in Xemac:

- Instruction Number (Xemac will issue an error message if the instruction number of a previously entered instruction is used);
- Securities Identification and nominal value;
- Credit account "xxxx 000" (where "xxxx" is the customer's participant number);
- Debit account "xxxx 550".

Xemac adds the following data to the details:

- Ultimate beneficiary (account number and name). This field is deduced from the participant details. The customer's Xemac participant number (corresponding to the participant no. of the instruction) and the name (data from KUSTA) are taken over;
- Instruction type "Securities Transfer" (01);
- Settlement date.

The following particularity applies to debit instructions:

- After a debit instruction has been checked, Xemac reserves the positions affected by the instruction. Hence, these positions are not available for any other activities in Xemac.
- During the period from the checking of the debit instruction in Xemac until disposition in CASCADE/T2S, no changes to the collateral involved are permitted in Xemac.

#### 6.1.1.3. Allocation Types

#### Allocation Type "Transfer"

The "Wertpapierauftrag" (WPA) is identified by the following attributes:

- Auftragsart: 01 WP-UEBERTRAG Xemac ANEIGN. M. BST-UEB.;
- "Lastkonto" XXXX 550 (Collateral Provider);
- "Gutkonto" XXXX 550 (Collateral Taker).

#### Allocation Type "Transfer EGC"

- Auftragsart: 01 WP-UEBERTRAG Xemac ANEIGN. M. BST-UEB.;
- "Lastkonto" XXXX 550 or 7525 550 Eurex Clearing AG (Collateral Provider);
- "Gutkonto" 7525 550 or XXXX 550 (Collateral Taker).

#### 6.1.2. Creation (CBL Settlement Location)

Creation is the settlement engine at CBL as CASCADE is at CBF. The assets held by customers at CBL are held on the Creation platform.

All Creation accounts are composed of five numerical digits. In order to be able to use assets in GC Pooling or in another Claim, these assets must be available in the "Reservation Account".

The assets held in the Reservation Account (Own assets) and Segregated Account (received assets in the frame of GC Pooling trades) are reflected in Xemac as "Free" (or "Pledged") "E" and those in Segregated Accounts as "Free" (or "Pledged") "T".

In order to enable allocation in GC Pooling Claims, the assets must be in any of the above collateral accounts.

- For a participant who is a provider in the Claim, the assets must be delivered out of the Reservation Account where they are "Free" "E".
- For a participant who is currently a taker who is required to return the assets, the securities must flow back from the Segregated Account where they are "Free" "T". If the participant has reused any of such assets, for example, in a Dt. Bbk Claim, the assets are seen as "Pledged" "T". Xemac then carries out the required substitution to make the assets available as "Free" "T".
- For a participant who is currently a taker in the GC Pooling Claim and becomes a net provider by virtue of a trade, the assets ("Free" "T") from the Segregated Account are first utilised before taking additional assets ("Free" "E") from the Reservation Account are allocated.

- 7.1. Glossary: Key terms
- 7.1.1. Abbreviations

Abbreviation	Description	
ACC	Account	
AM	Additional Margin	
АМАР	As much as possible	
ASI	Ancillary system interface	
BdF	Banque de France	
BIC	Bank Identifier Code	
BLZ	German Bank Code (Bankleitzahl)	
CASCADE	Central Application for Settlement, Clearing and Depository Expansion	
CBF	Clearstream Banking Frankfurt	
CBL	Clearstream Banking Luxembourg	
ССВ	Cash Correspondent Bank	
ССР	Central Counterparty (Eurex Clearing AG)	
CLM	Current Liquidating Margin	
CMSI	Collateral Management	
СР	Collateral Provider	
CSC	Collective Safe Custody	
CSV	Comma-separated Values (file format)	
СТ	Collateral Taker	
DCM	Direct Clearing Member	
DEALCO	Xemac Detailed Collateral and Exposure Statement	
Dt. Bbk	Deutsche Bundesbank	
DVP	Datenversandprodukt (Data transmission product)	
EAD	Eligible Assets Database	
ECB	European Central Bank	
EDF	Frankfurt Stock Exchange(Europe, Deutschland, Frankfurt) Code	
EGC/EGCP	(Euro) GC Pooling	
ESCB	European System of Central Banks	
E (-security)	Own Security	
EUREX	Eurex is the joint derivatives market of Deutsche Boerse AG and the Swiss Stock Exchange for financial derivatives	
EURIBOR	Euro Interbank Offered Rate	
GCM	General Clearing Member	
GUI	Graphical User Interface	
ID-KZ	Identification Code; User ID in Xemac	
ISIN	International Securities Identification Number	
КТО	Account (in German – KONTO)	
KUSTA	Client Master Data System of Clearstream Banking Frankfurt	
М	Million	

NBB	National Bank of Belgium		
NCCIP	NewContinuous Cash Instruction Processing		
NCM	Non Clearing Member		
NCSC	Non Collective Safe Custody		
ON	Overnight		
PDF	Portable Document Format (file format)		
PKS	Position-Keeping System		
RBS	Rapid Batches		
RTS	Real-Time Settlement		
SAC	Securities Account in T2S		
SIN	Securities Identification Number		
SUALCO	Xemac Summary Collateral and Exposure Statement		
STD	Standard Processing, Night-time settlement		
SWIFT	Society for Worldwide Interbank Financial Telecommunication		
T2	TARGET2 - real-time gross settlement (RTGS) system owned and operated by the Eurosystem		
T2S	TARGET2-Securities. Single, pan-European platform for securities settlement in central bank money owned and operated by Eurosystem		
TN	TomorrowNext		
T (-security)	Transferred security		
ТХТ	Text (file format)		
UDFS	User Detailed Functional Specifications from the ECB (T2S project)		
WKN	German Securities Identification Number (Wertpapierkennummer)		
WPA	Wertpapierauftrag		
WSS	Securities Service System		
XLS	Excel file format		
XML	Extensible Markup Language (file format)		

### 7.1.2. Functional Glossary

#### Allocated collateral

Collateral that is tied to a Claim. As the provider of collateral, it is not possible to allocate this collateral (substitutions are the exceptions to the rule). As a Collateral Taker, this is the collateral that is allocated to the Claim in order to provide the guarantee.

#### • Allocation

Collateralisation of a Claim which is creating a link between a Claim and one or more items of collateral. An un-collateralised Claim is therefore moved to "to be collateralised" status manually through "allocation/release".

#### • Allocation types

There are five allocation types currently available ("Pledge", "Appropriation", "Transfer", "Transfer External" and "Transfer EGC").

#### • Automatic allocation

Xemac selects free eligible collateral from the pool of the provider of collateral and allocates it to the respective Claims.

ASI

Ancillary system interface is the platform introduced by the ECB in order to allow standardised cash leg settlement (in central bank money) of securities transactions

ASI P2

Real-time settlement between two RTGS accounts

#### Blank Client Reference

The Blank (empty) Client Reference defines the own collateral pool of the Collateral Provider and exists by default. To be able to establish a Contract Conclusion for a "Euro GC Pooling" contract, even an empty Client Reference must have the Clearer and Trader ID filled.

#### CASCADE

Central Application for Settlement, Clearing And Depository Expansion of Clearstream Banking Frankfurt. CASCADE is an electronic platform that offers settlement of securities admitted to collective safe custody. This service is outsourced to T2S.

Check

Two different persons must enter and check all types of changes to Claims (Increases, Decreases, Deletions etc.) applying the four-eyes principle. Via the user IDs, the system checks the identification of the person entering data and the person checking the entries.

#### • Claim

A collateralised Claim based on a contract concluded with **"NCB**" Contract Definition type provides Deutsche Bundesbank with a global amount, which can be used as collateral for Repo allocations.

A collateralised Claim based on a Contract Conclusion with Contract Definition type **"Eurex"** provides Eurex with collateral to accord with the Claim Amount. This pledged collateral can be used as full or partial cover for margin requirements pursuant to the exchange's Risk Based Margining System.

A Claim based on a bilateral Contract Conclusion **"Clearstream"** Contract Definition type offers the user the possibility to be either Collateral Taker or Collateral Provider.

A Claim based on a Contract Conclusion with **"CMSI"** Contract Definition type provides for the Collateral Provider, as issuer of Collateral-secured instruments, to collateralise securities. Clearstream, as the Collateral Taker, acts as a fiduciary between the issuer and investor.

A Claim based on a Contract Conclusion with **"Euro GC Pooling"** Contract Definition type is required for a participant to enter into Repo transactions in GC Pooling.

#### Claim Currency

The Claim currency is stipulated in the respective Claim. The possible currencies are those that are eligible in CASCADE Foreign Currency (except Japanese Yen). The collateral value of a Claim is reported either in the reference currency or in the Claim currency.

#### Client

A Xemac participant identifies its clients within Xemac via the Client Reference. The participant enters a contract, for example, with Deutsche Bundesbank (Dt. Bbk), for his client and enters the Claim Amount in Xemac on behalf of his client.

#### • Client Reference

A Reference number that Xemac participants can use for subdividing their collateral pool. The clients are identified by means of Client References.

#### • CmaX

CmaX is the collateral management system linked to the Creation settlement engine at CBL. The assets held by participants in the collateral accounts at CmaX can be used to collateralise Claims in Xemac. CBL assets can be used to pledge Eurex, NCB, CMSI, Clearstream or GC Pooling Claims.

#### Collateral

Only securities are eligible as collateral for Contract Definitions with "NCB", "Clearstream", "CMSI", "Eurex" or "Euro GC Pooling" Contract Definition types.

#### Collateral Pool

See Xemac pool.

#### Collateral Provider

Xemac participant providing any Collateral Taker (for example, Deutsche Bundesbank or Eurex) with collateral on the basis of a Claim.

#### • Collateral Taker

Collateral is pledged in favour of the Collateral Taker through a Claim. Deutsche Bundesbank is, for example, the responsible institute for Contract Definitions of type "NCB", Eurex for Contract Definition types "Eurex" and "Euro GC Pooling" and Clearstream is the responsible institute for Contract Definitions of type "CMSI" and "Clearstream".

#### Collateral Value

The collateral value depends on the stipulations made in the Contract Definition (NCB, Clearstream, CMSI, Eurex or Euro GC Pooling). In the "NCB" Contract Definition, for example, the collateral value is calculated as the sum of market value plus accrued interest applying the prevailing haircut. For the "Eurex" Contract Definition, accrued interest is not taken into consideration.

#### • Confirmation

Both Xemac partners must agree on the details of a Claim or Contract Conclusion.

#### Contract Conclusion

Agreement between the Collateral Taker and the Collateral Provider on the general conditions for the provision of collateral. There can be only one Claim for each Contract Conclusion with Contract Definition type "NCB", "Clearstream", "CMSI", "Euro GC Pooling" or "Eurex".

Collateral Providers who are also acting on behalf of connected institutions should also enter into an agreement (Contract Conclusion) with the Collateral Taker for each of the clients. The Collateral Provider can, therefore, have several Contract Conclusions with the Collateral Taker, one for his own institution and several for his different clients.

As GCM (general clearing member) or as DCM (direct clearing member), it is however not possible to differentiate connected institutions using Client References. The Eurex margin requirement depends on the clearing status of the Collateral Provider, that is, whether GCM, DCM or NCM.

#### • Contract Definition

A Contract Definition contains individual parameters for the settlement and management of Claims, such as eligibility and valuation criteria. Each Contract Conclusion between a Collateral Provider and a Collateral Taker is based on the Contract Definition type "Clearstream", "CMSI", "Euro GC Pooling", "Eurex" or "NCB").

#### • Control parameters

In the control parameters, the provider of collateral enters unilateral instructions for Xemac (in addition to the parameters stipulated in the bilateral agreement). In the current release, all three parameters are set to "automatic".

#### • Creation

Creation is the settlement engine at CBL. All assets indicated with Settlement Location "CBL" in Xemac settle over Creation.

#### • Eligibility criteria

Specification within the Contract Definition as to which collateral the Xemac partner will accept for the collateralisation of a Claim.

#### • Empty Client Reference

See Blank Client Reference.

#### • Four-eyes principle

See Check.

#### Generated report

The Collateral Provider and the Collateral Taker can create a report by generating it from the report definition. In addition, Xemac automatically generates standard reports.

#### Global amount

The Collateral Provider informs the Collateral Taker (for example, Deutsche Bundesbank) with a global amount by way of a Claim that is collateralised in Xemac and based on a Contract Conclusion with Contract Definition type "NCB". The Collateral Taker can then use this global amount as collateral, for example, for Repo allocation purposes.

#### • Haircut

Percentage discount on the market value of collateral that is required to determine the collateral value.

#### Increasing the Global Amount

Except in a GC Pooling or CMSI Claim, the Collateral Provider can increase the amount of an existing Claim. The increased global amount is accepted and valid if Xemac is able to collateralise the increased amount after an automatic confirmation and check by the Collateral Taker.

#### Initial Notification

Initial notification of a global amount to the Collateral Taker (for example, Deutsche Bundesbank); carried out either by the institution of the Collateral Provider or on behalf of one of his clients.

#### • Instruction

Credit instructions, debit instructions and substitutions are all examples of instructions made by a Xemac participant.

#### Instruction Status

Status of an instruction in Xemac or in the position-keeping system. The instruction is entered and checked in Xemac and transferred to the position-keeping system, which either executes it or rejects it.

#### • Manual Allocation/Release

The provider of collateral uses this function to substitute allocated collateral. First, he allocates additional collateral, thereby over-collateralising the Claim. Then, he releases the allocated collateral that he requires for another purpose. If required, Xemac will also automatically select collateral that is to be allocated.

#### • Margin Deficit

The margin is in deficit when the collateral value falls below the Claim Amount. In such a case, the Claim is marked in red (if the checkbox "colour" is activated within the "Settings" screen).

#### Mark-to-Market

Daily process of marking to the market the pledged collateral for re-evaluation.

Monitoring

Xemac monitors, on a daily basis, whether the collateral is still eligible and the Claims are still sufficiently covered. This process takes place over night.

#### • Over-collateralisation

When the collateral value exceeds the Claim Amount.

• Party accepting collateral

See Collateral Taker.

#### • Person entering Claim

Participant number of Xemac participant entering a Claim into the system. If a user enters a Claim for a Xemac participant, Xemac records the person entering the Claim by way of the participant number of the Xemac participant on behalf of which the Clearstream user is acting. Xemac enters the user ID of the respective Clearstream user in the processing information panel.

#### • Pledging

The collateral pledged in favour of the party accepting collateral remains in the pool of the Collateral Provider. The collateral is labelled electronically, showing the Claim to which it is allocated.

#### • Processing Information

Depending on the status of a Claim or a Contract Conclusion, the user can see who carried out the entry, check, rejection or confirmation on which day and at which time.

If a Claim has been entered, the date and time of the entry are displayed along with the user ID of the person entering the Claim. After the Claim has been checked, the date and time of the check are added along with the user ID of the person checking the Claim etc.

#### • Provider of Collateral

See Collateral Provider.

#### • Real-Time Settlement (RTS)

An immediate transfer of ownership takes place for instructions that are settled in RTS. Securities entered by way of RTS can immediately be allocated as collateral by Xemac.

#### • Reciprocal Confirmation

Reciprocal confirmation of changes to a Claim that were made by both counterparties. Only after both parties have agreed to the entered or modified Claim does Xemac start to collateralise the Claim or, in the event of modifications, apply the changes.

The reciprocal confirmation of Claims can be carried out manually or automatically.

For Contract Conclusions with Deutsche Bundesbank, initial notifications and increases of the global amount are automatically confirmed by Deutsche Bundesbank. Reductions of the global amount and deletions of Claims must be confirmed manually.

For Contract Conclusions with Eurex, based on the "Eurex" Contract Definition type, newly generated Claims, increases and reductions of the Claim Amount are confirmed automatically; the deletion of a Claim is confirmed manually. This also refers to Contract Conclusions based on Contract Definition type "CMSI". Claim reductions to Eurex based on the Contract Definition Type "Dt. Bbk" must be confirmed manually.

For bilateral Contract Conclusions, the same mechanism as the one is place in the case of Deutsche Bundesbank applies.

Xemac automatically confirms modifications made to a Contract Conclusion by Deutsche Bundesbank, Eurex or bilaterally.

#### • Reduction of the Global Amount

The Collateral Provider reduces the amount of an existing Claim. After the Collateral Taker has manually confirmed and checked the reduction, Xemac releases the surplus collateral so that only the reduced global amount is collateralised.

#### Reference Currency

The reference currency is stipulated in the respective Contract Definition. The collateral value of a Claim is reported either in the reference currency or in Claim currency. The Euro is the default reference currency.

#### Release of Collateral

Upon release of allocated collateral, it is automatically returned to and available from the Xemac pool.

#### Report Definition

The report definition stipulates the layout of a report, that is, which columns are displayed in which order and how the rows are sorted. However, each view can be sorted and displayed according to the user's requirements.

#### • Shortage of Cover

See Margin Deficit.

• Substitution

Substitution implies the release of already allocated securities and their replacement with those that are eligible and free in the pool.

For Euro GC Pooling Claims, a release will always be accompanied by automatic substitution of equivalent value of the requested release.

• T2S

TARGET2-Securities. Single, pan-European platform for securities settlement in central bank money owned and operated by the Eurosystem. The settlement of securities movements taking place on the Settlement Location CBF (CASCADE) is outsourced to the external Settlement Platform T2S. Technically Xemac communicates with CASCADE, but CASCADE is sending the FOP settlement instructions to the T2S platform instead of performing the settlement itself. The respective settlement is carried out in RTS mode.

#### • Transfer / Transfer EGC

Collateral pledged as "Transfer" or "Transfer EGC" results in the full transfer of securities to the Collateral Taker.

#### • Unallocated Collateral

Collateral that is not allocated to a Claim and is thus available for future Claims ("Free"). The provider of collateral may use it for a different purpose in this case. Also, the Collateral Taker can use securities received as "Free" and subsequently transfer these using allocation type "Transfer".

#### • User ID

The user ID is composed of ten digits. The first four digits contain the participant number of the Xemac User (account number) and the remainder are allocated uniquely to the participant at random.

#### Valuation

Collateral is initially valued on the date of the first allocation to a Claim and then on a daily basis, in order to check whether all Claims are still sufficiently covered. On top of this, collateral is re-valued for each change in the allocated collateral positions. The collateral value is fixed by calculating the market value of the respective collateral and applying the haircut for this collateral group.

#### • Xemac Participant

Customers of Clearstream Banking Frankfurt making use of Xemac. They may act either as Collateral Taker (like Deutsche Bundesbank, Clearstream or Eurex) or as Collateral Provider.

#### Xemac Pool

Consolidation of all securities collateral of a Xemac participant for each Client Reference.



#### • Xemac Standard Report

The Xemac system provides all participants with standard reports that cannot be altered (Allocated Collateral, Allocation Changes, Allocations, Daily Change Global Amount, Claim Amount, Current Claims, Collateral Pool, Collateral Positions, Credit and Debit Instructions).

### 7.1.3. Technical Glossary

#### • Bubble-Help

Context help. This is the on-screen, context-sensitive help function. The bubble help messages can be activated/deactivated in the "Settings" menu.

#### Checkbox

Selection field with which the underlying function can be activated (checked) or deactivated (unchecked). For example, the Active for Automatic Report Generation checkbox is not checked in the "Schedule" section for reports.

In contrast with a radio button, the checkbox is independent and only serves to activate or deactivate a function. It is possible to activate as many checkboxes as are required at the same time.

#### Choice List

Selection list (dropdown menu) with available features. These features can be selected and adopted in the entry field.

Compared to the list box, the choice list displays a list of characteristics that cannot be changed.

#### Context Menu

Menu that the user can invoke with the right-mouse button as on-screen pop-up menu. It provides access to functions by means of menu entries. There are context menus for tabular views and icons.

#### • Entry field

Entry fields have a white background. The entry is either obligatory (mandatory) or optional. Entry fields are often pre-filled. The user can, however, overwrite pre-filled values.

#### • Filter

A filter option is available for every tabular view in Xemac. This filter option is either visible or hidden, depending on the flag set in the settings menu of Xemac. This setting can be modified by every user and stored individually. By using filters, it is possible to simultaneously filter each tabular view according to up to five criteria based on the visible columns.

#### • Frontend

Aggregate of all existing clients at the Xemac participant.

#### • Full view

The full view of the "Claims" section provides a detailed view of individual Claims including all the available information.

#### • List Box

List of positions in which the user can select any required position(s). Unallocated and available collateral is provided in a list box for manual allocation. The positions to be allocated can be selected.

#### • Output Field

The output field has a grey background. Entries cannot be made and the existing values cannot be overwritten.

#### • Pop-up Window

A window that pops up, for example, when checking a Claim in the tabular view. The user will be asked whether it is required to check all selected rows.



#### • Scroll bars

The horizontal scroll bar is at the lower margin of the tabular view. The user can use it to move the tabular view to the left or the right. The vertical scroll bar is on the left side of the tabular view and is used to move the screen contents up or down.

#### • Tabular view

The tabular view of the "Claims" section provides an overview of several Claims. Each Claim is displayed on a separate row.

# 8.1. FAQ: General

#### • What is the difference between Contract Definitions and Contract Conclusions?

The Contract Definition is the basis for Contract Conclusions. The Contract Definition stipulates general conditions such as eligibility criteria, haircut, allocation type, Claim amount premium and accrued interest for the accepted collateral.

Further, the Contract Definition stipulates the reusability, evaluation method and the application of concentration limit.

The Contract Conclusion stipulates who are the counterparties involved and which Contract Definition is taken as basis for the Contract Conclusion. The advantage of this procedure is that one Contract Definition can be used as the basis for several Contract Conclusions.

# • How shall the Collateral Provider set up a Contract Conclusion with Deutsche Bundesbank, Eurex or any other Collateral Taker?

The Collateral Provider needs to contact the Collateral Taker and request him to enter a Contract Conclusion in Xemac. He will then have to confirm and check it.

If the Contract Conclusion is relating to one of the customers of the Collateral Provider, he will have to add the Client Reference when confirming the Contract Conclusion.

• The Collateral Provider wants to check a Claim, but it is no longer available. Why?

As a rule, the Collateral Taker (as the person checking the Claim) will check entered, processed and deleted Claims directly, or on the same day, after the person entering the Claim (the Collateral Provider) has finished his/her task. However, the Collateral Taker has three bank working days to carry out the check; otherwise, the Claim will automatically be deleted by Xemac and have to be re-entered by the Collateral Provider.

#### • Why is it sometimes impossible for a Collateral Provider to check a specific Claim?

It is possible for the Collateral Provider to enter, modify or delete Claims. However, the four-eyes principle supported by Xemac stipulates that the person entering the Claim and the person checking the Claim must not be identical within the same institution.

# • How quickly will the Collateral Taker confirm the Claims entered by the Collateral Provider?

In general, an increase of the global amount of a Claim will be automatically confirmed to the extent of collateral available. This automatic confirmation will happen directly after the automatic check and is valid for the initiation or increase of Claim Amounts. If, on the other hand, the Collateral Provider decides to reduce the Claim Amount, the Collateral Taker is required to confirm the reduction (Deutsche Bundesbank / Eurex generally carries out confirmations within half an hour).

#### • How shall the Collateral Provider transfer collateral for Xemac?

The different possibilities to transfer securities in the Xemac pool are:

- For CBL securities: Xemac online credit instructions, Exposure Requests;
- For CBF securities: Xemac online credit instructions, File Transfer, SWIFT and IBM Websphere MQ.

# • Which collateral is eligible? Can any security be entered into the Xemac collateral pool?

Refer to the "Eligibility" section of this User Manual for a more detailed description. The Contract Definition lists all eligible securities for the concerned Contract Definition. The Collateral Provider can enter only securities eligible for Xemac within the collateral pool. These are securities that meet certain standards of quality regarding criteria, such as instrument status, instrument group, instrument type and dates for maturity and repayment.

#### • Can a third party enter securities in the collateral pool of the Collateral Provider?

No. The Collateral Provider remains the only institution able to transfer collateral from his main account into his Xemac sub-account.

#### • How is collateral evaluated in Xemac?

The valuation of collateral depends on the evaluation method linked to specific Contract Definition. For each evaluation method, a different price source is applied. Consequently, the collateral value of an ISIN can be different based on the Claim to which it is allocated. This is particularly relevant for reuse of collateral out of GC Pooling.

#### Is the accrued interest integrated in the calculation of the collateral value?

It depends upon the setup in the Contract Definition. For example, in the case of Claims entered towards Collateralisation Eurex Clearing/Pledge, the Contract Definition specifically excludes the inclusion of accrued interest in the calculation of the collateral value.

In the case of Claims entered towards Deutsche Bundesbank, the Contract Definition specifically incorporates the inclusion of accrued interest in the calculation of the collateral value. They are integrated until value date –1.

# • What does the Collateral Provider need to do when he is acting in Xemac for connected institutions?

Client References can be assigned to the institutions connected to the Collateral Provider. He has only to define a proprietary collateral pool for each client.

#### • How shall the Collateral Provider modify an incorrect Client Reference?

If the change only concerns the name of the Client Reference (spelling mistakes etc), it can be overwritten in Xemac. If, however, the Client Reference is in itself incorrect, the Collateral Provider will have to delete it and create a new one.

# • How shall the Collateral Provider rectify the fact that he entered collateral for the wrong Client Reference?

He will need to enter a debit instruction in Xemac for the wrong Client Reference: the collateral will then be removed from the pool and transferred back to his main account. In addition, he will then enter a credit instruction in Xemac for the correct Client Reference: the collateral entered for the correct Client Reference will then be separated in Xemac and made available in his collateral pool.

# • The Collateral Provider has entered and checked a Claim for an incorrect Client Reference and the confirmation has already been issued. How can he rectify this?

The Claim and the relevant Contract Conclusion must be deleted and a new Contract Conclusion created with the desired Client Reference. This should be followed with the creation of a new Claim based on the new Contract Conclusion.

#### • How can participants print or save tabular views and reports?

The "Output" field in the menu bar of the tabular view provides access to print and save functions (select either "Print" or "Save As"). The procedure is the same for reports.

#### • How is the Xemac software distributed?

The software is available as a software download from the Clearstream website <a href="https://www.clearstream.com/clearstream-en/products-and-services/global-securities-financing/global-liquidity-hub-csd-services/triparty-collateral-services-xemac-/xemac-product-description-1312532">https://www.clearstream.com/clearstream-en/products-and-services/global-securities-financing/global-liquidity-hub-csd-services/triparty-collateral-services-xemac-/xemac-product-description-1312532</a>

Customers are notified before each release. For downloads customers have to be logged in on the Clearstream website under the "My Clearstream" section.

#### • What happens in cases of coupon payments on "Transferred"securities?

In such a case, the coupon payment will be made directly on the account of the Collateral Taker and in turn credited to the Collateral Provider through a compensation process.

#### • How are redemptions handled?

In the event of forthcoming redemptions for securities that are "pledged", "appropriated" or "transferred" towards a Collateral Taker, it is necessary to request that Clearstream transfers the securities back to the main account. It is, therefore, necessary to ensure that sufficient alternative securities remain within the collateral pool to allow substitution.

# 8.2. FAQ: GC Pooling

#### • Why use GC Pooling?

The compelling advantage of GC Pooling is the possibility to reuse received collateral for further money market transactions, refinancing within the framework of ECB open market operations (in Xemac) and to reuse received collateral for Eurex Margining purposes.

#### • What are the key elements?

- Secured money market trading on an anonymous basis;
- Euro, CHF, USD and GBP funding against standardised fixed income and equity baskets;
- Euro cash settlement in central bank money and CHF, USD and GBP cash settlement in commercial bank money;
- Four GC Pooling baskets for trading with a wide range of ECB eligible assets and one INT MXQ Basket containing securities issued by Central banks, Central Governments and Supranationals in non-EUR currencies;
- Possibility to pledge "reuse" of received securities out of GC Pooling;
- Full automation of the cash processes for domestic and international customers acting in GC Pooling;
- Eurex Clearing as a CCP.

#### What is the difference between the baskets?

Currently there are four GC Pooling baskets. The difference between the baskets is based on eligibility criteria defined by Eurex. Each basket has its own Contract Definition with predefined eligible collateral that can be used for trading. Below is a brief description of the four baskets:

• GC Pooling ECB Basket (SIN DE000A0AE077)

This basket, based on the Eligible Assets Database (EAD), covers a huge amount of ECB (Central Banks, Central Governments, Agency Credit Institutions etc.) eligible securities. This basket enables the reuse of received collateral for refinancing within the framework of ECB/Bundesbank open market operations, the GC Pooling market and Eurex Clearing Margining. Collateral Group is EUREX GCP. Minimum rating for assets is "A-/A3".

GC Pooling ECB Basket EXTended Basket (SIN DE000A0WKKX2)

Built on the Eligible Assets Database (EAD), the GC Pooling ECB EXTended Basket covers tens of thousands ECB (Central Banks, Central Governments, Corporate and other issuers etc.) eligible securities. This basket enables the reuse within the GC Pooling market. Collateral Group is EUREX GCPX.

o GC Pooling Equity Basket (SIN DE000A1EZNP6)

This basket, which includes all eligible securities from the GC Pooling ECB Basket plus selected equities out of HDAX, Euro Stoxx 50, DAX 30, CAC 40 and AEX 25 indices, enables the reuse within the GC Pooling Equity market and Eurex Clearing Margining. Collateral Groups included are EUREX GCP and EUREX GCP Equities.

GC Pooling INT MXQ Basket (SIN DE000A1PHUP5)

This Basket includes **eligible** securities issued by Central banks, Central Governments and Supranationals in non-EUR currencies. Minimum rating for assets is "AA-/Aa3".

#### • GC Pooling CTDFRA Basket (SIN DE000A2GG7V0)

The GC Pooling CTD France Basket contains French Government Bonds as deliverables of the next 3 Future expiries and will be automatically updated in case of an inclusion or exclusion of a deliverable security. The re-use of allocated collateral will not be allowed towards Bundesbank or Banque Centrale du Luxembourg as well as Eurex Clearing. Nevertheless, the collateral giver / cash taker will be able to substitute collateral as in other GC Pooling baskets as of today.

#### • GC Pooling CTDGER Basket (SIN DE000A1PHUN0)

The GC Pooling CTD Basket contains German Government Bonds as deliverables of the next 3 Future expiries and will be automatically updated in case of an inclusion or exclusion of a deliverable security. The re-use of allocated collateral will not be allowed towards Bundesbank or Banque Centrale du Luxembourg as well as Eurex Clearing.

#### • GC Pooling CTDITA Basket (SIN DE000A2GG7W8)

The GC Pooling CTD Basket contains Italian Government Bonds as deliverables of the next 3 Future expiries and will be automatically updated in case of an inclusion or exclusion of a deliverable security. The re-use of allocated collateral will not be allowed towards Bundesbank or Banque Centrale du Luxembourg as well as Eurex Clearing.

#### • What are the trading hours?

Main trading hours: 07:30-18:00 with cut-off time for overnight:

- Euro GC Pooling: 17:00;
- GC Pooling Equity: Overnight: 15:00;
- USD GC Pooling: Overnight: 15:30;
- CHF GC Pooling: Overnight: 13:00;
- GBP GC Pooling: Overnight: 16:30.

Cut-off times for transactions to settle on a business day other than the trade date:

- o USD GC Pooling: real time settlement between 14:30 17:30
- CHF GC Pooling: real time settlement between 07:00 15:00
- GBP GC Pooling: real time settlement between 07:00 17:30
- Will I get the Claim Amount Premium back on the return leg of the Repo?

When the Claim becomes zero or in the case of a change of direction - change from Collateral Provider to Collateral Taker - the system returns the Claim Amount premium automatically to the original provider's pool.

• Will I get back the securities provided originally as Repo Seller?

The original securities provided by the seller will be returned. However, there is no link between the Repo trades; that is, the originally allocated securities will not necessarily be released at the end of the respective trade (net Claim concept).

• Transferred ("T") securities my pool are not displayed as ISINs that can be allocated through the "Manual Allocation" view. Why is that?

This can be due to following reasons:

- 1. Reuse is not enabled in Contract Definition;
- 2. The "GCP Reuse" checkbox is not checked in the respective Claim;
- 3. The security may have a Collateral Value zero.
- Is it possible to reuse "T" securities from all baskets?

Within NCB Claims, reuse is allowed only for assets received through the GC Pooling ECB Basket. The exception is CTD basket where the reuse is not allowed.

• I see a change in the composition of ISINs in my pool even when I do not have any transactions on a given day?

Transferred securities have been substituted by Eurex Clearing AG and replaced by other securities of equivalent collateral value. The system ensures that the overall collateral value will always be maintained.

#### How can I monitor pending repo trades in CASCADE?

The pending status can be viewed in CASCADE by the option KVAI AA:

Auftragsart	01	
Lastschrift – Bank	Account of the Seller	
Gutschrift – Bank	Account of the Buyer	
	Baskets for GC Pooling:	
	EGCP: DE000A0AE077/A0AE07	
	EGCPX: DE000A0WKKX2/A0WKKX	
	GCP Equities: DE000A1EZNP6/A1EZNP	
WKN (ISIN)	GCP INT MXQ DE000A1PHUP5 / A1PHUP	
	GCP CTDESP DE000A2GG7U2 / A2GG7U	
	GCP CTDFRA DE000A2GG7V0 / A2GG7V	
	GCP CTDGER DE000A1PHUN0 / A1PHUN	
	GCP CTDITA DE000A2GG7W8 / A2GG7W	

#### How can I display settled instructions in CASCADE?

To view the settled transactions, the option is KVDU ID:

Buchungstag	Settlement Date
Umsatzart	Enter L (for debit) or G (for credit)
Bank/Konto	Account depending on debit or credit side
Kontrahent (Optional)	Counterparty account number
WKN/ISIN (Optional)	Queried ISIN

#### • Is it possible to enter manual allocation / release for a CBL paper?

Yes. There is no difference in that respect between CBF and CBL papers.

#### • How can customers enter bulk credit of CBL papers?

Customers can enter a manual Exposure Request for a Euro amount with respect to a certain basket (currently ECB, EGCP, EGCPX, GCP Equities, CTDESP, CTDFRA, CTDGER, CTDITA and GCP INT MXQ). Securities corresponding to the quality of papers required are then transferred from the main source account to the Reservation Account in Creation and are visible in Xemac after Creation settlement.

#### • Why is it not possible to click the checkbox "GCP Reuse"

It is not required, and not permitted, to activate this flag in GC Pooling Claims. Such Claims are by default enabled for reuse through the Contract Definition.

# • As a CBF customer, will I be able to define a separate cash account other than the 6-series account defined upon setup?

No. The commercial bank settlement for the user as CBF customer will be routed through the 6-series account only.

# • How can it be ensured that enough cash is available at the disposal of CBL treasury?

The success of GC pooling trades is critically dependent on appropriate cash and securities provisioning. In so far as cash provisioning for USD trades is concerned, the customer, as cash provider, is required to ensure that sufficient credit line is available on the cash account.

# • What is the difference between the eligibility profiles of assets that are eligible for GC Pooling trades in cash currencies?

There is no difference between the eligibility of securities between CHF, EUR, GBP and USD GC Pooling.

• Will there be any difference in the valuation of assets between exposures in trading currencies?

No. There is no difference in the intrinsic value of collateral between the currencies. They are only expressed differently per Claim currency, although it is also expressed in the Euro Reference Currency, where the values are the same for the same ISIN and nominal.

#### • Are there any differences in the trading / settlement days between Euro and CHF?

Trading will be offered on Target open days with additional consideration for the CHF currency calendar observed by the CCP.

# • As a Collateral Taker in both Euro and USD GC Pooling trades, how can I segregate the assets received in both exposures? Will my collateral pool reflect the respective receipts?

The allocated collateral view/report and the "Allocations" report indicate the assets allocated to/from several Claims individually. Within the pool, the assets received in the framework of GC Pooling in Euro and USD are reflected together without any distinction. This implies that, when the same ISIN is received through both exposures, the nominal values are summed up and a single line is seen in the pool.

# • Can I use the assets received in GC Pooling trades in one currency to deliver in another?

Although this is not currently offered, this is already recognised as an important feature and is contemplated in the roadmap for a future release.

#### • Can I reuse the assets received in trading currencies in a single NCB Claim in Euro?

Yes. Assets received through GC Pooling trades in the standard basket (EGCP) in the trading currencies can be subsumed into a NCB Claim in a third currency.

#### • What is implied with multicurrency capability?

Customer can enter Claims with Dt. Bbk in all acceptable non-Euro currencies (a list of such currencies is provided in Appendix 4). Likewise, assets received in the framework of GC Pooling (that is, the "EGCP" basket) can, for example, be pledged in a single NCB Claim in GBP.

#### • Is it possible to switch the Claim from one currency to another?

No. Each Claim is expressed in a specific currency from the point of creation. It is not possible to edit the Claim currency subsequently for an active Claim.

# • Will there be any allocation algorithm within the equity basket, that is, what will be allocated first, equities or bonds?

Yes, Equities are allocated from the Collateral Provider to CCP before bonds are considered. Bonds, on the other hand, are release before equities.

#### • What is GC Pooling Select?

It is the new product of Eurex Repo, Eurex Clearing, and Clearstream Banking, which allows non-banking customers such as insurance companies, corporations, and pension funds to also benefit from the advantages of secured funding and use all the benefits of GC Pooling.

#### • What is the difference between GC Pooling and GC Pooling Select?

Before the new product has been presented GC Pooling was a form of anonymous interbank market, which could only be used by our direct customers with a Banking

licence and an existing account. GC Pooling Select opened new opportunities to a new segment of non-banking customers, who can act as cash providers to banks quickly and easily, benefiting from the advantages of trading through a clearing house.

How is the cash processed for GC Pooling?

#### EUR GC Pooling Settlement - Central bank money

Some adaptations that were carried out within the new GC Pooling settlement model refer in particular to the two-step cash approach, which was introduced due to the needed synchronisation between T2 (cash) and T2S (securities). The two-step cash approach ensures the conditionality in the treatment of GC Pooling trades: CASCADE only initiates Trade Position movements (FoP instructions that are linked to a GC Pooling trade and that will settle on the T2S platform) when it is confirmed by T2/NCCIP that the cash confirmation is received for the movement from the Cash Provider to the CBF Fiduciary Account.

The cash settlement of GC Pooling trades will remain executed on TARGET2 RTGS accounts via ASI Procedure 2 payment (as of today and not on the T2S Dedicated Cash Account) and the Basket ISINs will still settle in CASCADE only and not on T2S. In the event of a GC Pooling trade a cash instruction is generated in:

- T2 (EUR) via ASI P2 from the buyer `s T2 RTGS account to the T2 RTGS account of CBF (T2 RTGS fiduciary cash account for the settlement in EUR currency); or
- The Fiduciary cash account for the settlement in foreign currencies (non-EUR) in NCCIP from the buyer 's 6-series account to the CBF Fiduciary `s 6-series account (68261).

#### EUR GC Pooling Settlement-CBL customer funding

In order to ensure proper funding for securities purchases in EUR, funding is automated for customers with a set-up via CBL:

- For CBL customers with access to Central bank money, an RTGS account of the customer is debited before the settlement of the purchase
- For CBL customers with commercial money set-up only, Creation cash account of the customer is debited before the settlement of the purchase. Please note that customer with this set-up accept the relevant CBL cash processing rules and external Creation cash deadlines (currently 16.30 for EUR):
  - Cash amounts fur purchases need to be confirmed on the account until the deadline to enable GCP purchases until settlement deadline. No external cash provisioning after the deadline is possible
  - Cash amounts resulting from securities sales settlement after the deadline cannot be withdrawn from Creation with good value date
  - Creation cash deadlines apply regardless of longer trading and settlement deadlines for GC Pooling trading and settlement.

After successful CBL customer funding, the trade is settled in Central bank money as described above.

#### Non-EUR GC Pooling Settlement – Commercial money

GC Pooling trades in non-EUR currencies are settled in commercial money against the respective Creation accounts. This applies both to customers with CBF and CBL set-up.

# 9. Your hotline to Xemac

For assistance related to the Xemac application, customers can reach the hotline via the following telephone number:

+49 (0) 69 211 1 1410

Please do not hesitate to contact us if you have further questions concerning this User Manual or concerning the application itself. We will be very glad to be of service. Hints and suggestions for improvement are also always welcome.

If you have any **technical problems** with the Xemac application please contact the following number:

+49 (0) 69 211 1 1590

# **Appendices**

# Appendix 1 – Connectivity via SWIFT ISO 15022

Customers can connect to Xemac via SWIFT ISO 15022. Messages in this format can be received and delivered in Xemac via the following connectivity channels:

- File Transfer;
- SWIFT; or
- IBM Websphere MQ.

The following message types can be processed in Xemac:

- Inbound: Delivery instruction SWIFT MT542 (description and examples hereunder); .
- Outbound: Collateral and Exposure Statement SWIFT MT569 (please refer to the • "CBF Connectivity Handbook Part 2" for details").

Delivery instruction via SWIFT MT542:

Only relevant fields for Xemac instructions are hereunder described. All others will be handled as for CASCADE transfer instructions.

For Xemac credit and debit instructions without Client Reference ("blank" Client Reference)

Name of information	ISO label	Comments on particularities regarding technical
element and condition5		implementation or parameterisation

Mandatory Sequence A General Information

Sendersreference	20C	20C::SEME//16x
		Unique reference used in the sender's application.
Function of the message (M)	23G	23G::NEWM The only permitted qualifier for customers entering Xemac instructions via SWIFT is "NEWM".

→ Repetitive Optional Sequence A1 linkages

<sup>&</sup>lt;sup>5</sup> Mandatory specification = M; conditional mandatory specification = B; optional specification = 0; optional default specification = D

Related reference (M)	20C	20C::RELA//16x.	
		The qualifier "RELA" should be used for Xemac customers in order to transmit instruction numbers in the Xemac application and in CASCADE.	
		The format is described in the following example: 20C::RELA//KPXXXX0101234560	
		"K" is the application indicator (here: CASCADE)-	
		"P" stands for production-	
		• XXX X is the customer's account-	
		• "01" is the instruction type for "securities transfer"-	
		• "0" precedes the 6-digit-numeric instruction number to be transmitted to Xemac and CASCADE.	
		<ul> <li>"123456" is, for example, the 6-digit instruction number to be transmitted to Xemac and CASCADE. It should be greater than "0" and less than "800000".</li> </ul>	
		• This instruction number should not already be available in Xemac or in CASCADE. The automatic generation of instruction numbers will not be considered.	
		• The last "0" has always to be set (constant value).	

---I End of Subsequence A1 linkages

End of Sequence A General Information

Mandatory Subsequence B Trade Details

Settlement date (M)	98A	98A:://SETT//YYYYMMDD
		The settlement date can either be same value date or future value date.
Trade date (M)	98A	98A:://TRAD//YYYYMMDD
		The trade date is mandatory. It must be between the Clearstream receipt date and settlement date.
Identification of financial 35B		[ISIN1!e12!c]
instrument (M)		Please note that the format of the securities identification to be entered in the SWIFT message is independent of the settings chosen in the Xemac application (WKN, ISIN, Common Code or Cusip).
Comment (0)	70E	:70E::SPRO//10*35x
		In Xemac only the first 50 digits are displayed in the Comment field of a credit or debit instruction.

End of Subsequence B Trade Details

→ Repetitive Mandatory Sequence C Financial Instrument/Account

Quantity of financial	36B	36B::SETT//4!c15d
instrument to be settled (M)		For example, Xemac instructions 36B::SETT//UNIT/35000,

Safekeeping account	97A	97A::SAFE//35x
		For Xemac instructions, field 97A, in sequence C, indicates the CBF debit account. On a credit instruction, it is the main account (xxxx0000) of the Xemac customer. On a debit instruction, it is the Xemac sub-account 550 (xxxx0550).
I End of Sequence C I	- inancial Instr	ument/Account
Mandatory Sequence E	Settlement De	etails
Settlement transaction	22F	22F::RTGS/4!c
condition (M)		For Xemac instructions, 22F::RTGS//YRTG has to be entered.
		The default value for Xemac credit and debit instructions is currently "YRTG" (RTS processing). Any other code word entered will be rejected.
Type of settlement	22F	22F::SETR//4!c
transaction (M)		For Xemac instructions, 22F::SETR//COLO or
		22F::SETR//COLI has to be entered.
		The SWIFT qualifier "COLO" has been introduced for securities transfer from main account to sub-account 550 (Credit instruction; COLO stands for collateral out of the main account).
		The SWIFT code word "COLI" has been introduced for securities transfer from sub-account 550 to main account (Debit instruction; COLI stands for collateral into the main account).
→ Repetitive Mandatory	Subsequenc	e E1 Settlement Parties
Receiving agent (M)	95P95R	95P::REAG//4!a2!a2!c[3!c]

Receiving agent (M)	95P 95R 95Q	95P::REAG//4!a2!a2!c[3!c]
		95R::REAG/8c/34x (Safekeeping account)
		95Q::REAG//4*35x
		When 95P or 95Q is used, 97A should also be used. When 95R is used, it should always include DAKV.
		When using 95R, the Xemac account should have the following format:
		95R::REAG//DAKV/xxxx0550
Safekeeping account (B)	97A	97A::SAFE//35x
		For Xemac instructions, field 97A, in subsequence E1, indicates the CBF credit account. On a credit instruction, it is the sub-account 550 (xxxx0550) of the Xemac customer. On a debit instruction, it is the Xemac main account 000 (xxxx0000).

--I End of Subsequence E1 Settlement Parties

End of Sequence E Settlement Sequence

#### For Xemac credit and debit instructions with Client Reference other than blank

In addition to the fields mentioned above (Appendix 2. Part I. Xemac credit and debit instructions with Client Reference blank), the following fields must be completed in subsequence E1 when customers refer to particular parts of their collateral pool while crediting/debiting instructions in Xemac:

- The Xemac Client Reference should be entered in the DECU, RECU, SELL and BUYR settlement parties.
- When the DECU settlement party is delivered, the SELL settlement party should also be delivered. When the RECU settlement party is delivered, the BUYR settlement party should also be delivered.
- When all fields related to settlement parties (DECU, RECU, SELL and BUYR) are empty, the Xemac default Client Reference is used (the blank Client Reference).

To describe the settlement parties, fields 95P, 95R are 95Q are needed. When using format 95P/Q, a field 97A is required.

Xemac field of Client Reference	SWIFT qualifier	Description
Institute Type / Reference	RECU	Receiver's Custodian
Custody Account Type / Reference	BUYR	Account Beneficiary

For a credit instruction, the Client Reference has to be added as follows:

For a debit instruction the Client Reference has to be added as follows:

Xemac field of Client Reference	SWIFT qualifier	Description
Institute Type/Reference	DECU	Deliverer's Custodian
Custody Account Type / Reference	SELL	Original instructor / account instructor

The following tables show examples for credit and debit instructions with and without Client References:

SWIFT Message Fields and Contents	Comments
:16R:GENL	
:20C::SEME//TEST-MT542-1	Instruction reference
:23G:NEWM	
:98A::PREP//20101026	
:16R:LINK	
:20C::RELA//KT63350105900010	Related reference containing the customer's account (6335) and instruction number (590001)
:16S:LINK	
:16S:GENL	
:16R:TRADDET	
:98A::SETT//20101026	Settlement date for current day
:98A::TRAD//20101026	Trade date
:35B:ISIN DE0001135242	Securities code
:70E::SPRO//CreditInstructionwithout Client Reference	Comment
:16S:TRADDET	
:16R:FIAC	
:36B::SETT//UNIT/500000,	Nominal value
:97A::SAFE//63350000	Debit account
:16S:FIAC	
:16R:SETDET	
:22F::RTGS//YRTG	Settlement type
:22F::SETR//COLO	Type of settlement transaction: Credit instruction
:16R:SETPRTY	
:95R::REAG/DAKV/63350550	Credit account
:16S:SETPRTY	
:16R:SETPRTY	
:95Q::PSET//DAKVDEFF	Place of settlement
:16S:SETPRTY	
:16S:SETDET	

#### Example of MT542 - Credit Instruction with Client Reference

SWIFT Message Fields and Contents	Comments
:16R:GENL	
:20C::SEME//TEST-MT542-2	Instruction reference
:23G:NEWM	
:98A::PREP//20101026	
:16R:LINK	
:20C::RELA//KT63350105900020	Related reference containing the customer's account (6335) and instruction number (590002)
:16S:LINK	
:16S:GENL	
:16R:TRADDET	
:98A::SETT//20101027	Settlement date for future day
:98A::TRAD//20101026	Trade date
:35B:ISIN DE0001135242	Securities code
:16S:TRADDET	
:16R:FIAC	
:36B::SETT//UNIT/500000,	Nominalvalue
:97A::SAFE//63350000	Debit account
:16S:FIAC	
:16R:SETDET	
:22F::RTGS//YRTG	Settlement type
:22F::SETR//COLO	Type of settlement transaction: Credit instruction
:16R:SETPRTY	
:95Q::REAG//CUSTOMER	BIC of receiving agent
:97A::SAFE//63350550	Credit account
:16S:SETPRTY	
:16R:SETPRTY	
:95R::BUYR/DAKV/BLZ-12345678	Client Reference: Custody Account Type and Reference
:70C::PACO//Credit Instruction with Client Reference	Comment
:16S:SETPRTY	
:16R:SETPRTY	
:95R::RECU/DAKV/BIC-12345678	Client Reference: Institute Type and Reference
:16S:SETPRTY	
:16R:SETPRTY	

SWIFT Message Fields and Contents	Comments
:95Q::PSET//DAKVDEFF	Place of settlement
:16S:SETPRTY	
:16S:SETDET	

#### Example of MT542 - Debit Instruction without Client Reference

SWIFT Message Fields and Contents	Comments
:16R:GENL	
:20C::SEME//TEST-MT542-3	Instruction reference
:23G:NEWM	
:98A::PREP//20101026	
:16R:LINK	
:20C::RELA//KT63350105900030	Related reference containing the customer's account (6335) and instruction number (590003)
:16S:LINK	
:16S:GENL	
:16R:TRADDET	
:98A::SETT//20101027	Settlement date for future day
:98A::TRAD//20101026	Trade date
:35B:ISIN DE0001135242	Securities code
:70E::SPRO//Debit Instruction without Client Reference	Comment
:16S:TRADDET	
:16R:FIAC	
:36B::SETT//UNIT/500000,	Nominalvalue
:97A::SAFE//63350550	Debit account
:16S:FIAC	
:16R:SETDET	
:22F::RTGS//YRTG	Settlement type
:22F::SETR//COLI	Type of settlement transaction: Debit instruction
:16R:SETPRTY	
:95R::REAG//CUSTOMER	BIC of receiving agent
:97A::SAFE//63350000	Credit account
:16S:SETPRTY	
:16R:SETPRTY	
:95Q::PSET//DAKVDEFF	Place of settlement
:16S:SETPRTY	
:16S:SETDET	

#### Example of MT542 - Debit Instruction with Client Reference

SWIFT Message Fields and Contents	Comments
:16R:GENL	
:20C::SEME//TEST-MT542-4	Instruction reference
:23G:NEWM	
:98A::PREP//20101026	
:16R:LINK	
:20C::RELA//KT63350105900040	Related reference containing the customer's account (6335) and instruction number (590004)
:16S:LINK	
:16S:GENL	
:16R:TRADDET	
:98A::SETT//20101026	Settlement date for current day
:98A::TRAD//20101026	Trade date
:35B:ISIN DE0001135242	Securities code
:16S:TRADDET	
:16R:FIAC	
:36B::SETT//UNIT/500000,	Nominalvalue
:97A::SAFE//63350550	Debit account
:16S:FIAC	
:16R:SETDET	
:22F::RTGS//YRTG	Settlement type
:22F::SETR//COLI	Type of settlement transaction: Debit instruction
:16R:SETPRTY	
:95Q::REAG//CUSTOMER	BIC of receiving agent
:97A::SAFE//63350000	Credit account
:16S:SETPRTY	
:16R:SETPRTY	
:95R::SELL/DAKV/BLZ-12345678	Client Reference: Custody Account Type and Reference
:16S:SETPRTY	
:16R:SETPRTY	
:95R::DECU/DAKV/BIC-12345678	Client Reference: Institute Type and Reference
:16S:SETPRTY	
:70C::PACO//DebitInstructionwith Client Reference	Comment
:16S:SETPRTY	
:16R:SETPRTY	

SWIFT Message Fields and Contents	Comments
:95Q::PSET//DAKVDEFF	Place of settlement
:16S:SETPRTY	
:16S:SETDET	

## Appendix 2 – Claim Adjustment Request

Hereunder a summary of the fields required for the sending of SWIFT for mat MT527 messages – Claim Adjustment Requests:

Name of information element and condition		Comments on particularities regarding technical implementation or parameterisation
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Mandatory Sequence A General Information

Sendersreference	20C	20C::SEME//16x	
		Unique reference used in the sender's application.	
Client's Collateral	20C	20C::CLCI//16x	
Instruction Reference (0)		Reference assigned to the instruction by the customer.	
Sender's Collateral	20C	20C::SCTR//16x	
Transaction Reference (0)		Unique reference identifying the System Claim Number.	
Function of the	23G	23G::NEWM	
message (M)		The only permitted qualifier for customers entering Xemac instructions via SWIFT is "NEWM".	
Execution Requested	98A	98A::EXRQ//8!n	
Date (M)		Date at which the instructing party requests the instruction to be executed. It must be equal to Xemac business date.	
Instruction Type	22H	22H::CINT//4!c	
Indicator (M)		<ul> <li>The field must contain "PADJ" = Principal/Exposure Adjustment.</li> </ul>	
Exposure Type	22H	22H::COLA//4!c	
Indicator (M)		"SLOA" is Secured Loan	
Client Indicator (M)	22H	22H::REPR//4!c	
		"PROV" Instructing party is the collateral giver	

PARTY B (M)       95R       95R::PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF (yyyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyyccc12345678901ddd1234567890123         • yyyy → the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • dd → Custody Account Type saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference	, ,	ubsequence AT Cottate		
PARTY A [M]       95R       If the Xemac Client Reference is empty, the following entry is required: DAKV/xxxXMSC-NONREFMSC-NONREF         PARTY A [M]       95R       If a Client Reference has been assigned by the instructing party for the claim to be adjusted, the following entry is required:         PARTY A [M]       95R       DAKV/xxxxaaa12345678901bbb1234567890123         •       xxx → the CBF account number       •         •       DAKV/xxxxaaa12345678901bbb1234567890123       •         •       xxx → the CBF account number       •         •       aaa → Institute Type saved in the Xemac Client Reference       •         •       12345678901 → Institute Reference saved in the Xemac Client Reference       •         •       bb → Custody Account Type saved in the Xemac Client Reference       •         PARTY B [M]       95R       95R::PTYB/DAKV/34x       Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required:       •       NAVV/yyy/SC-NONREF         Vyyy representing the CBF account number)       If a Client Reference has been assigned by the counterparty for the Claim to be adjusted, the following entry is required:       •         •       DAKV/yyyyCc1234567890123       •       yyyy → the CBF account number         If a Client Reference       •       1234567890123       •         •       DAKV/yy				
PARTY A [M]       95R       If a Client Reference has been assigned by the instructing party for the claim to be adjusted, the following entry is required:         PARTY A [M]       95R       DAKV/xxxxaaa12345678901bb1234567890123         •       xxxx → the CBF account number       •         •       aaa → Institute Type saved in the Xemac Client Reference         •       12345678901 → Institute Reference saved in the Xemac Client Reference         •       12345678901 → Institute Reference saved in the Xemac Client Reference         •       1234567890123 → Custody Account Type saved in the Xemac Client Reference         •       bb → Custody Account Type saved in the Xemac Client Reference         •       bb → Custody Account Type saved in the Xemac Client Reference         PARTY B [M]       95R       95R::PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF         PARTY B [M]       95R       95R::PTYB/DAKV/34x         Counterparty for the claim to be adjusted, the following entry is required:       •         DAKV/yyyycc1234567890123       •         yyyy → the CBF account number       •         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         •       DAKV/yyyycc1234567890123 <t< td=""><td></td><td></td><td>Instructing party sending the collateral instruction.</td></t<>			Instructing party sending the collateral instruction.	
PARTYA (M)       95R       party for the claim to be adjusted, the following entry is required:         • DAKV/xxxxaa12345678901bb1234567890123       • xxx → the CBF account number         • aa → Institute Type saved in the Xemac Client Reference       • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Type saved in the Xemac Client Reference       • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         PARTY B (M)       95R       95R: PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF         PARTY B (M)       95R       95R: PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required:         PARTY B (M)       95R       95R: PTYB/DAKV/34x         Counterparty for the claim to be adjusted, the following entry is required:       DAKV/yyyycc12345678901 ddl1234567890123         Yyyy → the CBF account number!       If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyycc12345678901 ddl1234567890123       Yyyy → the CBF account number!         If a Client Reference       12345678901 - Institute Reference saved in the Xemac Client Reference         • 12345678901 - Institute Reference saved in the Xemac Client Reference       1234567890123 → Custody Ac			entry is required: DAKV/xxxxMSC-NONREFMSC-NONREF	
PARTEA (M)       70K         • xxxx → the CBF account number         • aaa → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • bbb → Custody Account Type saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • PARTY B (M)       95R         95R::PTYB/DAKV/34x         Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyMSC-NONREFMSC-NONREF (yyyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyyccc12345678901dd1234567890123         • yyyy → the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • Idd → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Cli			party for the claim to be adjusted, the following entry is	
• xxxx → the CBF account number         • aaa → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • bbb → Custody Account Type saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • PARTY B [M]       95R         • 95R::PTYB/DAKV/34x         Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyMSC-NONREFMSC-NONREF [yyyy representing the CBF account number]         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyccc12345678901 ddd1234567890123         • yyyy → the CBF account number         • Cacc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference	PARTY A (M)	95R	• DAKV/xxxxaaa12345678901bbb1234567890123	
Reference       12345678901 → Institute Reference saved in the Xemac Client Reference         bb → Custody Account Type saved in the Xemac Client Reference       1234567890123 → Custody Account Reference saved in the Xemac Client Reference         PARTY B (M)       95R       95R::PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMC-NONREFMSC-NONREF [yyyy representing the CBF account number]         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         DAKV/yyyy=the CBF account number]         If a Client Reference         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         DAKV/yyyy=the CBF account number         ccc → Institute Type saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         1234567890123 → Custody Account Reference saved in the Xemac Client Reference         1234567890123 → Custody Account Reference saved			• $xxxx \rightarrow \text{the CBF}$ account number	
Xemac Client Reference         • bbb → Custody Account Type saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         PARTY B [M]       95R         95R::PTYB/DAKV/34x         Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF         If yyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyycc12345678901ddd1234567890123         • yyy → the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → State Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567				
Client Reference         PARTY B (M)         95R         95R::PTYB/DAKV/34x         Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyMSC-NONREFMSC-NONREF (yyyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyyccc12345678901ddd1234567890123         • yyyy → the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • ddd → Custody Account Type saved in the Xemac Client Reference         • 12345678901 23 → Custody Account Reference saved in the Xemac Client Reference         • ddd → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • Collateral Instruction Narrative       70E         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac				
PARTY B (M)       95R       95R::PTYB/DAKV/34x         Counterparty of party A       If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF (yyyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyyccc12345678901ddd1234567890123         • yyyy → the CBF account number         • Cacc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • Collateral Instruction Narrative       70E         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac				
Counterparty of party A         If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF         Iyyyy representing the CBF account number]         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyycc12345678901ddd1234567890123         • yyyy → the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference         • 1234567890123 → Custody Account Reference         • 1234567890123 → Custody Account Reference			<ul> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> </ul>	
If the Xemac Client Reference is empty, the following entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF (yyyy representing the CBF account number)         If a Client Reference has been assigned by the counterparty for the claim to be adjusted, the following entry is required:         • DAKV/yyyyccc12345678901ddd1234567890123         • DAKV/yyyy→ the CBF account number         • ccc → Institute Type saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 12345678901 → Institute Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         • 1234567890123 → Custody Account Reference         • 1234567890123 →	PARTY B (M)	95R	95R::PTYB/DAKV/34x	
entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF         (yyyy representing the CBF account number)         If a Client Reference has been assigned by the         counterparty for the claim to be adjusted, the following         entry is required:         DAKV/yyyyccc12345678901ddd1234567890123         yyyy → the CBF account number         ccc → Institute Type saved in the Xemac Client         Reference         12345678901 → Institute Reference saved in the         Xemac Client Reference         ddd → Custody Account Type saved in the Xemac         Client Reference         1234567890123 → Custody Account Reference saved in the         Xemac Client Reference         1234567890123 → Custody Account Reference saved in the Xemac         Client Reference         1234567890123 → Custody Account Reference saved in the Xemac         Client Reference         1234567890123 → Custody Account Reference saved in the Xemac         Client Reference         1234567890123 → Custody Account Reference saved in the Xemac Client Reference         End of Subsequence A1 Collateral Parties         Collateral Instruction       70E         Narrative       Provides additional information on the collateral instruction, is always used and will be copied in the Xemac			Counterparty of party A	
counterparty for the claim to be adjusted, the following entry is required:         DAKV/yyyyccc12345678901ddd1234567890123         yyyy → the CBF account number         cccc → Institute Type saved in the Xemac Client Reference         12345678901 → Institute Reference saved in the Xemac Client Reference         ddd → Custody Account Type saved in the Xemac Client Reference         1234567890123 → Custody Account Reference saved in the Xemac Client Reference         1234567890123 → Custody Account Reference saved in the Xemac Client Reference         End of Subsequence A1 Collateral Parties         Collateral Instruction Narrative       70E         70E::CINS//10*35x         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac			entry is required: DAKV/yyyyMSC-NONREFMSC-NONREF	
<ul> <li>yyyy → the CBF account number</li> <li>yyyy → the CBF account number</li> <li>ccc → Institute Type saved in the Xemac Client Reference</li> <li>12345678901 → Institute Reference saved in the Xemac Client Reference</li> <li>ddd → Custody Account Type saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>Provides additional information on the collateral instruction, is always used and will be copied in the Xemac</li> </ul>			counterparty for the claim to be adjusted, the following	
<ul> <li>ccc → Institute Type saved in the Xemac Client Reference</li> <li>12345678901 → Institute Reference saved in the Xemac Client Reference</li> <li>ddd → Custody Account Type saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> <li>Provides additional information on the collateral instruction, is always used and will be copied in the Xemac</li> </ul>			• DAKV/yyyyccc12345678901ddd1234567890123	
Reference       Reference         12345678901 → Institute Reference saved in the Xemac Client Reference       ddd → Custody Account Type saved in the Xemac Client Reference         •       ddd → Custody Account Type saved in the Xemac Client Reference         •       1234567890123 → Custody Account Reference saved in the Xemac Client Reference         End of Subsequence A1 Collateral Parties       70E         Collateral Instruction Narrative       70E         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac			• yyyy $\rightarrow$ the CBF account number	
Xemac Client Reference         •       ddd → Custody Account Type saved in the Xemac Client Reference         •       1234567890123 → Custody Account Reference saved in the Xemac Client Reference         •       1234567890123 → Custody Account Reference saved in the Xemac Client Reference         End of Subsequence A1 Collateral Parties       Collateral Instruction Narrative         70E       70E::CINS//10*35x         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac				
Client Reference         Client Reference         • 1234567890123 → Custody Account Reference saved in the Xemac Client Reference         End of Subsequence A1 Collateral Parties         Collateral Instruction Narrative         70E         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac				
in the Xemac Client Reference         End of Subsequence A1 Collateral Parties         Collateral Instruction Narrative       70E         Provides additional information on the collateral instruction, is always used and will be copied in the Xemac				
Collateral Instruction       70E       70E::CINS//10*35x         Narrative       Provides additional information on the collateral instruction, is always used and will be copied in the Xemac			<ul> <li>1234567890123 → Custody Account Reference saved in the Xemac Client Reference</li> </ul>	
Narrative Provides additional information on the collateral instruction, is always used and will be copied in the Xemac	End of Subsequence A1	Collateral Parties		
instruction, is always used and will be copied in the Xemac		70E	70E::CINS//10*35x	
			instruction, is always used and will be copied in the Xemac	

**Note:** All MT527 Claim Adjustment requests sent by customers during the Xemac opening will be timely processed.

Optional Repetitive Subsequence A2 Linkages

Previous Message	20C	20C::PREV//16x
Reference		Message reference of the linked message which was previously sent. Must contain value of the SEME

End of Subsequence A2 Linkages

Optional Sequence B Deal Transaction Details

Closing Date (M)	98B	98B:::TERM/[8c]/4!c Qualifier OPEN is always used
Transaction Amount (0)	19A	<ul> <li>19A::TRAA//[N]3!a15d</li> <li>The new Xemac Exposure / Claim Amount (including Claim Currency) and not the amount by which the Claim is adjusted. It must be positive.</li> </ul>

Example: MT527 Claim Adjustment Request – Claim Increase without Client Reference.

SWIFT Message Fields and Contents	Comments
:16R:GENL	
:28E: 1/ONLY	Page Number / Continuation Indicator
:20C::SEME//MSGP002	Sender's Reference
:20C::CLCI//INSTR002	Client's Collateral Instruction Reference
:20C::SCTR//2017003601	Sender's Collateral Transaction Reference
:23G: NEWM	Function of the Message
:98A::EXRQ//20171022	Execution Requested Date
:22H::CINT//PADJ	Instruction Type Indicator
:22H::COLA//SLOA	Exposure Type Indicator
:22H::REPR//PROV	Client Indicator
:16R:COLLPRTY	
:95R::PTYA/DAKV/XXXXMSC-NONREFMSC- NONREF	Party A
:16S: COLLPRTY	
:16R: COLLPRTY	
:95R::PTYB/DAKV/YYYYMSC-NONREFMSC- NONREF	Party B
:16S: COLLPRTY	
:70E::CINS//Adjustment reason	Collateral Instruction Narrative
:16R: LINK	
:20C::PREV//MSGP002	Previous Reference
:16S: LINK	
:16S: GENL	
:16R: DEALTRAN	
:98B::TERM//OPEN	Closing Date
:19A::TRAA//EUR2000000,00	Transaction Amount
:16S: DEALTRAN	



## Appendix 3 – Reports in Xemac

The following reports are possible in Xemac:

	Table 62: Available Reports in Xemac	
Category	Report name (in alphabetical order per category)	Identical view exists?
Claims	Claim Amount	Yes
	Current Claims	No
	Daily Change Global Amount	Yes
	Detailed Claim Amount CMSI	No
Collateral	Allocated Collateral	Yes
	Allocated Collateral per CRef	No
	Allocation Changes	No
	Allocations	No
	Collateral Pool	No
	Collateral Pool per CRef	No
	Collateral Pool Value <b>6</b>	Yes
	Collateral Positions	Yes
	Collateral Overview	Yes
	Historical Allocation Instructions	Yes
Contract Definitions	Eligible Securities per CDef	No
Instructions	Credit and Debit Instructions	No
	Rejected Instructions	Yes
N/A	Deletion by System	No

#### Table 62: Available Reports in Xemac

<sup>&</sup>lt;sup>6</sup> Collateral Pool Value is not a standard report but it can be saved in Excel format.

#### Report: Claim Amount

This report displays all current Claim Amounts in "Entry Confirmed Checked" status. The signs of the Claim amounts can either be positive (no sign) or negative, depending on whether the participant is Collateral Taker or Collateral Provider. The Collateral Value is always displayed without any sign (implying positive value). The sort order is Claim Amount, Counterparty and then Counterparty Client Reference. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

Table 63: Description	of Columns of Report	"Claim Amount"
-----------------------	----------------------	----------------

General information	Columns (in alphabetical order)
Report No.	Claim Amount
Data as of	Claim Currency
Participant No.	Client
Reference Currency	Client Reference
ID	CollateralValue
Page (only on pdf file)	Contract Definition No.
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Counterparty MFIID
	Cover Ratio
	GCP Basket
	Instruction Reference / Event
	MFIID
	Name of Counterparty
	Own Claim No.
	Own Contract No.
	Own Status
	Participant No.
	System Claim No.
	System Contract No.
	Valuation Time
	Version
	Version of Contract Conclusion
	Version of Contract Definition

#### Report: Current Claims

This report shows all the participant's Current Claims with "Entry Confirmed Checked" status, with the current Claim value. The signs of the Claim amount can either be positive (no sign) or negative, depending on whether the participant is Collateral Taker or Collateral Provider. The sort order is Client Reference, Own Claim Number and System Claim Number. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

Table 64: Description	of Columns of Report	"Current Claims"
-----------------------	----------------------	------------------

General information	Columns (in alphabetical order)
Report No.	Claim Amount
Data as of	Claim Currency
Participant No.	Client
Reference Currency	Client Reference
ID	Collateralised from
Page (only on PDF file)	Contract Version
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Cover Ratio
	Name of Counterparty
	Own Claim No.
	Own Status
	System Claim No.
	System Contract No.
	Version



#### Report: Daily Change Global Amount

This daily report contains all daily changes in Claim Amounts along with Time of the Change, New Amount, Old Amount and Difference. It also includes the Own Claim Number. This report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

General information	Columns (in alphabetical order)
Report No.	Action
Data as of	Claim Currency
Participant No.	Claim Status
Reference Currency	Counterparty
ID	Counterparty Client
Page (only on PDF file)	Counterparty Client Reference
	Date
	Difference
	GCP Basket
	Instruction Reference / Event
	Name of Counterparty
	NewAmount
	Number
	Old Amount
	Own Claim No.
	System Claim No.
	Time
	Version

#### **Report: Detailed Claim Amount CMSI**

The report displays the detailed Claim information on underlying Secured Instruments, based on the "CMSI" Contract Definition type. It is available for Xemac Participants who use this service and will be generated automatically twice a day. The sort criteria are based on Client Reference, Client, System Claim Number and ISIN. The report reflects the sum of the evaluated issued volumes of all underlying secured instruments per Claim. When there are no secured instruments to be collateralised by a Claim, no entry appears on the detailed report for that Claim.

The following columns are included in the report:

General information	Columns (in alphabetical order)
Report No.	Claim Amount
Data as of	Claim Currency
Participant No.	Client
Reference Currency	Client Reference
ID	Nominal Value
Page (only on PDF file)	Participant No.
	Price Date
	Price Source
	Quotation
	Securities Description
	SIN
	System Claim No.
	Version
	Xemac Price

#### Table 66: Description of Columns of Report "Detailed Claim Amount CMSI"

#### **Report: Allocated Collateral**

The report displays, for all a participant's Client References, collateral by ISIN allocated per Current Claim per Participant, with Nominal Value, Market Value and Collateral Value. Nominal Value and Collateral value are displayed positive (no sign) or negative, depending on whether the participant is Collateral Provider or Collateral Taker. The Market Value is always displayed positive. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

General information	Columns (in alphabetical order)
Report No.	Allocation Type
Data as of	Basket
Participant No.	Claim Currency
Reference Currency	Client
ID	Client Reference
Page (only on PDF file)	Collateral Value in Claim Currency
	Collateral Value in Reference Currency
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Market Value in Reference Currency
	Nominal Value
	Own Claim No.
	Participant No.
	Securities Description
	Settlement Location
	SIN
	System Claim No.
	Туре

Table 67: Description	of Columns of Report	"Allocated Collateral"
Table off Beschiption	or ootanino or neport	Allocatoa oottatoiat

#### **Report: Allocated Collateral per CRef**

The report displays, for one specific Client Reference of a participant - collateral by ISIN allocated per Current Claim per Participant, with Nominal Value, Market Value and Collateral Value. Nominal Value and Collateral value are displayed positive (no sign) or negative, depending on whether the participant is Collateral Provider or Collateral Taker. The Market Value is always displayed positive. The report is used by the Collateral Provider and the Collateral Taker and can be generated on request from the "Report Definitions" view.

Following columns are included in the report:

General information	Columns (in alphabetical order)	
Report No.	Allocation Type	
Data as of	Basket	
Participant No.	Claim Currency	
Client Reference	Client	
Reference Currency	Client Reference	
ID	Collateral Value in Claim Currency	
Page (only on PDF file)	Collateral Value in Reference Currency	
	Counterparty	
	Counterparty Client	
	Counterparty Client Reference	
	Market Value in Reference Currency	
	Nominal Value	
	Own Claim No.	
	Participant No.	
	Securities Description	
	Settlement Location	
	SIN	
	System Claim No.	
	Туре	

#### Table 68: Description of Columns of Report "Allocated Collateral per CRef"



#### **Report: Allocation Changes**

This daily report shows all successfully executed movements of collateral during the day. All allocations and releases to the Claims, where the participant is Collateral Taker (values with no sign indicate positive) or Collateral Provider (values with negative sign) are displayed. The status of the manual allocation/release has, therefore, to have the "Entry Confirmed Checked" status. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

General information	Columns (in alphabetical order)
Report No.	Accrued Interest in Claim Currency
Data as of	Claim Currency
Participant No.	Client Reference
Reference Currency	Collateral Value in Claim Currency
ID	Collateral Value in Reference Currency
Page (only on PDF file)	Comment
	Haircut (%)
	Instruction No.
	Market Value in Reference Currency
	Nominal Value
	Securities Description
	Settlement Location
	SIN
	System Claim No.
	Transaction
	Туре

#### Report: Allocations

This daily report shows a detailed view of all allocated securities to the Claims with additional information like Xemac Price, Quotation, Accrued Interest and Haircut. The information is sorted by Allocation Type, Client Reference and ISIN allocated. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

General information	Columns (in alphabetical order)
Report No.	Accrued Interest in Claim Currency
Data as of	Allocation Type
Participant No.	Basket
Reference Currency	Claim Currency
ID	Client Reference
Page (only on PDF file)	Collateral Value in Claim Currency
	Collateral Value in Reference Currency
	Counterparty
	Counterparty Client Reference
	Denomination Currency
	Haircut (%)
	Issuer Country
	Issuer Group
	Issuer Name
	Last Redemption Date
	Market Value in Reference Currency
	Nominal Value
	Price Date
	Quotation
	Relevant Claim Amount
	Securities Description
	Settlement Location
	SIN
	System Claim No.
	Туре
	Xemac Price

#### Report: Collateral Pool

This daily report displays, for all a participant's Client References, the securities with "Free", "Pledged" or "Appropriated" collateral status. The securities are classified by Client References and collateral status and are summed per block. The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

<b>Table 71: Description</b>	of Columns of Report	"Collateral Pool"

General information	Columns (in alphabetical order)
Report No.	Basket
Data as of	Client Reference
Participant No.	Collateral Status
ID	Denomination Currency
Reference Currency	Exchange Rate
Page (only on PDF file)	Issuer Country
	Issuer Group
	Issuer Name
	Last Redemption Date
	Market Value in Reference Currency
	Market Value in Trading Currency
	Nominal Value
	Price Date
	Quotation
	Securities Description
	Settlement Location
	SIN
	Trading Currency
	Туре
	Xemac Price

#### Report: Collateral Pool per CRef

This daily report displays, for one specific Client Reference of a participant, the securities with "Free", "Pledged" or "Appropriated" collateral status. The securities are classified by Client References and collateral status and are summed per block. The report is used by the Collateral Provider and the Collateral Taker and can be generated on request from the "Report Definitions" view.

General information	Columns (in alphabetical order)
Report No.	Basket
Data as of	Client Reference
Participant No.	Collateral Status
Client Reference	Denomination Currency
Reference Currency	Exchange Rate
ID	Issuer Country
Page (only on PDF file)	Issuer Group
	Issuer Name
	Last Redemption Date
	Market Value in Reference Currency
	Market Value in Trading Currency
	Nominal Value
	Price Date
	Quotation
	Securities Description
	Settlement Location
	SIN
	Trading Currency
	Туре
	Xemac Price

#### <u>Report: Collateral Pool Value (only in Excel format via "Claim Amount" or "Claim Number</u> <u>available" tabular views)</u>

This report shows the available free collateral for a specific Claim, which could be allocated. The report is used by the Collateral Provider and can be generated on request from the "Claim Amount" and "Claim Number" tabular views.

The following columns are included in the report:

#### Table 73: Description of Columns of Report "Collateral Pool Value"

General information	Columns (in alphabetical order)
Own Claim No.	Basket
System Claim No.	CollateralValue
Claim Amount	Limit
Relevant Claim Amount	Nominal Value
	Securities Description
	Settlement Location
	SIN
	Unused Limit
	Туре

#### **Report: Collateral Positions**

This report displays for all a participant's Client References, Collateral Positions of all ISINs with "Free", "Pledged" or "Appropriated" status, with respective Nominal, Market and Collateral Value. Market Value and Collateral Value are displayed only for securities with "Pledged" or "Appropriated" status. It is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

General information	Columns (in alphabetical order)
Report No.	Basket
Data as of	Client
Participant No.	Client Reference
Reference Currency	Collateral Status
ID	Collateral Value in Reference Currency
Page (only on PDF file)	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Market Value in Reference Currency
	Nominal Value
	Own Claim No.
	Participant No.
	Securities Description
	Settlement Location
	SIN
	System Claim No.
	Туре

#### **Report: Collateral Overview**

The daily report combines the "Allocated Collateral" and "Collateral Positions" reports. It displays what is effectively booked on the CASCADE sub-account 550 and on the Creation Reservation Account. It displays what is pledged, received from counterparties (CCP or bilateral) or transferred to other counterparties (CCP or bilateral). The report is used by the Collateral Provider and the Collateral Taker and is generated automatically at end of day.

Table 75: Description	of Columns of Report	"Collateral Overview"
-----------------------	----------------------	-----------------------

General information	Columns (in alphabetical order)
Report No.	Allocation Type
Data as of	Basket
Participant No.	Claim Currency
Reference Currency	Client
ID	Client Reference
Page (only on PDF file)	Collateral Status
	Collateral Value in Claim Currency
	Collateral Value in Reference Currency
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Market Value in Reference Currency
	Nominal Value
	Own Claim No.
	Participant No.
	Securities Description
	Settlement Location
	SIN
	System Claim No.
	Туре

#### **Report: Historical Allocation Instructions**

This report shows all Historical Allocation Instructions that were successfully settled or rejected and therefore have "Entry Confirmed Checked" or "Entry Rejected Checked" status. These can be "Allocation", "Release" or "Substitution" instructions. The report is used by the Collateral Provider and can be generated on request from the "Report Definitions" view.

Table 76: Description of Columns of Report	"Historical Allocation Instructions"
--	--------------------------------------

General information	Columns (in alphabetical order)
Report No.	(Automatic) Substitution
Data as of	Client
Participant No.	Client Reference
Reference Currency	Comment
ID	Date of Entry
Page (only on PDF file)	Instruction No.
	Instruction Status
	Instruction Type
	Link Reference
	Participant No.
	Processing Time
	Settlement Date
	System Claim No.

#### **Report: Eligible Securities per CDef**

This report includes an overview of all securities eligible for a specific Contract Definition. It is used by the Collateral Provider and the Collateral Taker and can be generated on request from the "Report Definitions" view.

The following columns are included in the report:

General information	Columns (in alphabetical order)
Report No.	Contract Definition No.
Data as of	Haircut (%)
Participant No.	Name of Contract Definition
Reference Currency	Responsible Institute
ID	Securities Description
Page (only on PDF file)	Settlement Location CBF
	Settlement Location CBL
	SIN
	Limit
	Version of Contract Definition

#### Table 77: Description of Columns of Report "Eligible Securities per CDef"

#### **Report: Credit and Debit Instructions**

This automatic daily report shows a detailed overview of the Debit and Credit Instructions entered by the participants via the online function, with the execution status, settlement date and comments. The settlement date is filled only when the status of the instruction is "Rejected" or "Successfully executed"; otherwise, it is empty. A special error code might be mentioned in the comment field in the case of a Rejection. Instructions entered by the user and deleted on same day are not included in the report. The report is used by the Collateral Provider and is automatically generated at end of day.

The following columns are included in the report:

Table 78: Description of Columns of Report "Credit and Debit Instructions"

General information	Columns (in alphabetical order)
Report No.	Client Reference
Data as of	Comment
Participant No.	Instruction No.
Reference Currency	Instruction Status
ID	Instruction Type
Page (only on PDF file)	Nominal Value
	Securities Description
	Settlement Date
	Settlement Location
	SIN

#### **Report: Rejected Instructions**

This report shows the rejected Credit or Debit Instructions for the Xemac participant, including historical ones. It is used by the Collateral Provider and can be generated on request from the "Report Definitions" view.

Table 79: Description of Columns of Report "Rejected Instructions'

General information	Columns (in alphabetical order)
Report No.	Client Reference
Data as of	Comment
Participant No.	Credit Account
Reference Currency	Date of Entry
ID	Debit Account
Page (only on PDF file)	Instruction No.
	Instruction Status
	Instruction Type
	Nominal Value
	Participant No.
	Processing Time
	Rejection Reason
	Securities Description
	Settlement Date
	Settlement Location
	SIN
	Transaction Reference



#### **Report: Deletion by System**

This daily report shows all objects that were deleted automatically because they were not checked within three bank working days. It is available for every Xemac participant and generated automatically after morning re-evaluation. Relevant objects can be "Instructions", "Claims", "Client References", and "Contract Conclusions". If these objects are entered with "New", "Edit" or "Delete" and are not checked within three bank working days, they are deleted automatically by Xemac and reported in this report.

General information	Columns (in alphabetical order)
Report No.	Date
Data as of	Note
Participant No.	Object Description
Reference Currency	Object Status
ID	Operation
Page (only on PDF file)	Own Reference
	System No.
	Time
	Transaction
	User
	Value

## **Appendix 4 - ACCESS RIGHTS**

The rights of access to functions are controlled by specific transaction and function codes, which are stored in the Security system.

The level of the transaction codes is given by the main menu in Xemac.

The following are the functions in the Main Menu where access can be controlled:

- Claims;
- Collateral;
- Contract Conclusions;
- Contract Definitions;
- Client References;
- Instructions/Exposure Requests.

A further access level can be defined via the context menu of the individual functions (function codes)

Example: Transaction = Contract Conclusions

Function = Display New Edit Delete Check Confirm Reject

#### Coding example

Table 81: Access rights - Coding example

- Position 1-4:	4-Digit Transaction Code					
- Position 9-10:	Here it can be indicated whether the user is allowed access for a function code ("=" - allowed) or not ("/=" and/or "=/" - disallowed)					
- Position 11-100:	The Function codes with two digits must be separated from the Transaction codes by a blank character					
CM - Application	SECU - Transaction- Code	CM - Function	SECU - Functions-Code			
Claim	KXF0	Display	AN			
		New	NE			
		Edit	ВА			
		Check	KT			
		Confirm	BS			
		Reject	ZW			
		Manual Allocation	МА			
		Delete	LO			

Function codes for the Transaction code "KXFO" are: "AN", "NE", "BA", "KT", "BS", "ZW", "MA" and "LO".

If coded as in the below example, the user with Transaction code "KXFO" receives access authorisations for the function codes "AN", "NE", "BA", "KP", "LO":

1234 901234567890123456789 KXFO = AN NE BA KP LO

2

1

1

If coded as in the below example, the user with Transaction code "KXFO" receives all access authorisations except for the function codes "KP" and "LO":

	•		-	
1234	901234	56789	01234	56789
KXFO	/= K P L	0		

2

The following are the possible combinations of transactions and relevant functions on the basis of the KX context menu:

Table 82: Possible Combinations	of transactions	and functions	of the KX context men	
	or transactions		of the fix context ment	

Functions/ Transactions	Display" AN"	New" NE"	Modify" BA"	Copy" KP"	Check" KT"	Confirm " BS"	Reject" ZW"	Manual A/R " MA"	PKS Notification " BF"	Delete" L0"
Logon"KXAA"	mand	atory								
Client References "KXKU"	Х	х	х		x		х			х
Claims "KXFO"	х	х	х		х	х	х	х		х
Collaterals "KXSI"	х							х		
Instructions "KXAU"	х	х	х		х	х	х		х	х
Contract Conclusions "KXVA"	х	х	х	х	х	х	х			х
Contract Definitions "KXVD"	х									

In order for a user to log into the Xemac application, access to a minimum of one transaction (for example, KXKU AN) on top of the transaction "KXAA" should be provided.

Authorisations for Sample User (in IMS.IM?.SECUINP-Format):

**N.B.:** An empty space is explicitly required between the equals sign and the first letter of the function.

(1) Normal Xemac User including Dt. Bbk and Eurex (with all Xemac functions):

- L 0001 ISRT SP01SEC
- L DATA KXAA
- L 0001 ISRT SP01SEC
- L DATA KXAU = AN NE BA KT BS ZW LO
- L 0001 ISRT SP01SEC
- L DATA KXFO = AN NE BA KT BS ZW MA LO
- L 0001 ISRT SP01SEC
- L DATA KXKU = AN NE BA KT ZW LO
- L 0001 ISRT SP01SEC
- L DATA KXSI = AN MA
- L 0001 ISRT SP01SEC
- L DATA KXVD = AN
- L 0001 ISRT SP01SEC
- L DATA KXVA = AN NE BA KP KT BS ZW LO
- L 0001 ISRT SP01SEC
- L DATA MENU

(2) Xemac User as user making the entry (without Check Function):

- L 0001 ISRT SP01SEC
- L DATA KXAA
- L 0001 ISRT SP01SEC
- L DATA KXAU = AN NE BA BS ZW LO
- L 0001 ISRT SP01SEC
- L DATA KXFO = AN NE BA BS ZW MA LO
- L 0001 ISRT SP01SEC
- L DATA KXKU = AN NE BA LO
- L 0001 ISRT SP01SEC
- L DATA KXSI = AN MA
- L 0001 ISRT SP01SEC
- L DATA KXVD = AN
- L 0001 ISRT SP01SEC
- L DATA KXVA = AN NE BA KP BS ZW LO
- L 0001 ISRT SP01SEC
- L DATA MENU

#### (3) Xemac User as user checking the entry:

- L 0001 ISRT SP01SEC
- L DATA KXAA
- L 0001 ISRT SP01SEC
- L DATA KXAU = AN KT ZW
- L 0001 ISRT SP01SEC
- L DATA KXFO = AN KT ZW
- L 0001 ISRT SP01SEC
- L DATA KXKU = AN KT ZW
- L 0001 ISRT SP01SEC
- L DATA KXSI = AN
- L 0001 ISRT SP01SEC
- L DATA KXVD = AN
- L 0001 ISRT SP01SEC
- L DATA KXVA = AN KT ZW
- L 0001 ISRT SP01SEC
- L DATA MENU

## **Appendix 5 – CASCADE Foreign Currencies**

The following 20 CASCADE Foreign Currencies are currently also applicable in Xemac (JPY is not applicable):

Currency	Country
AUD	Australia
CAD	Canada
CHF	Switzerland
CNY	China
CZK	Czech Republic
DKK	Denmark
EUR	EWWU
GBP	Great Britain
HKD	Hong Kong
HUF	Hungary
MXN	Mexico
NOK	Norway
NZD	NewZealand
PLN	Poland
RUB	Russia
SEK	Sweden
SGD	Singapore
TRY	Turkey
USD	USA
ZAR	South Africa

#### Table 83: CASCADE Foreign Currencies

# Index

Access Rights
Accrued Interest55
Adopt the current contract
Allocation31
Automatic Allocation/Release55
Automatic Confirmation 35, 44, 103
Batch process26
Bubble Help152
CASCADE 126
CASCADE Foreign Currencies
CASCADE/T2S153
Claim Adjustment Request112
Claim Amount 101, 102, 108
Claim Amount Premium 59, 172
Claim Check112, 168
Claim Deletion 114
Claim Details106, 111
Claim Display109
Claim Increase112
Claim Modification109
Claim New104
Claim Reduction113
Claim Rejection113
Claims16, 32, 34, 35, 41, 44, 45, 100
Clearer and Member ID29
Clearstream
Client Reference 17, 44, 77, 84, 169
Client Reference Check
Client Reference Deletion
Client Reference New78
Client Reference Processing85
Client Reference Rejection87
Client Reference View86
CMSI 30, 49, 52, 109

Collateral115, 125
Collateral Groups
Collateral Pool125,169
Collateral Release
Collateral Status 115
Collateral View
Compulsory Claim Decrease
Context Menus
Contract Conclusion 17, 32, 34, 44, 91, 168
Contract Conclusion Check
Contract Conclusion Confirmation
Contract Conclusion Modification
Contract Conclusion Rejection
Contract Conclusion View94
Contract Definition 50, 66, 91, 168
Contract Definition View
Creation
Credit Instruction 153
Credit Instruction Check
Credit Instruction Deletion
Credit Instruction Modification
Credit Instruction Rejection
Credit Instruction View 137
Debit Instruction140, 154
Eligibility check
Eligibility of collateral
Eligible Securities
Eurex
Exposure Request
File Transfer136, 144
Four-eyes Principle
Full View
GC Pooling14, 29, 49, 52, 59, 63, 109
Generated Reports145, 146

### Index

Generated Reports Deletion 150
Generated Reports Generation
Generated Reports Print151, 170
Generated Reports Save
Historical Database37
IBM Websphere MQ136,144
Initial notification of a Global Amount36
Instructions45
Logon
Logon window24
Manual Allocation/Release
Manual Allocation/Release Check65
Manual Allocation/Release Deletion65
Manual Allocation/Release Rejection65
Manual Allocation/Release View64
Manual Confirmation
Mark to market
Microfiches148
MT527112
NCB 27, 36, 46, 52, 104
Opening Hours26
Over-collateralisation after Simulation 60, 61
Password24

Pledge	8
Processing Information	9
Reciprocal Confirmation	ō
Reduction of a Global Amount 37, 38, 39, 42	7
Report Definition 145	ō
Report Definition Display 148	8
Reports	1
Reservation Account82	2
Responsible Institution	6
SAC 150	3
Security Concept20	6
Segregated Account82	2
Settings88	8
Source Account	1
Status Concept3	1
Substitution	1
Substitution/Automatic Selection67	1
SWIFT	7
Tabular View18	8
Under-collateralisation after Simulation67	1
User profile	6
Versioning	1

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