clearstream

# Xemac<sup>®</sup> User Manual



June 2015

## **Xemac User Manual**

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## **Table of contents**



1.	INTRODU	CTION	1
	1.1. OBJE	CTIVE OF THIS USER MANUAL	2
2.	WELCOM	E TO XEMAC	2
	2.1. FUNC	TIONAL OVERVIEW	4
	2.2. LOGO	SING INTO XEMAC: MAIN VIEW	6
	2.3. TABU 2.3.1.	Tabular Views and Foll views	8
	2.3.2.	Full View	. 11
	2.4. CONT	TEXT MENUS	.12
	2.4.1.	Context Menus for Icons	. 12
	2.4.2.	Menu item 'Options': How to define a view as standard view	. 13
3.		ACCESS THE SYSTEM	.14
	3.2. How	TO LOG INTO XEMAC AND CHANGE THE PASSWORD	. 15
	3.3. SECU	IRITY CONCEPT	.16
	3.4. OPEN	NING HOURS	.17
	3.5.1.	Notification of a Global Amount to Deutsche Bundesbank or to another NCB	. 17
	3.5.2.	Pledging Collateral in favour of Eurex	. 18
	3.5.3.	Participation in GC Pooling	.20
	3.5.4.	Participation in Collateral Management Secured Instruments	.21
4.	KEY FUN	CTIONS AND BASIC PRINCIPLES	.23
	4.1. INTRO		.24
	4.2. VERS 4.2.1.	Particularities with respect to Contract Conclusions	. 24
	4.2.2.	Particularities with respect to Claims	.25
	4.3. FOUR	-EYES PRINCIPLE	.27
	4.3.1.	Particularities with respect to Contract Conclusions	.27
	4.3.2.	Particularities with respect to Claims	.27
	4.3.3.	Particularities with respect to Exposure Requests	.28
	4.4. RECII	PROCAL CONFIRMATION	.28
	4.5.1.	Example: Initial notification of Global Amount towards Deutsche Bundesbank	.29
	4.5.2.	Example: Reduction of a Global Amount	. 30
	4.5.3.	Example: Reduction of a Global Amount rejected by Collateral Provider	. 31
	4.5.4.	Example: Reduction of a Global amount rejected by Deutsche Bundesbank	. 32
	4.6. PROC		. 32
	4.6.1.	Example: Processing information "Claims"	. 34
	4.6.2.	Special cases for Claims	37
	4.6.3.	Special cases for Client References	38
	4.6.4.	Special cases for Contract Conclusions	. 38
	4.6.5.	Special cases for Instructions (Debits and Credits)	. 38
	4.6.6.	Processing information for Claims	. 39
	4.6.7.	Processing for Contract Definition Type 'NCB'	. 40
	4.6.8.	Processing for Contract Definition Type 'Eurex'	. 41
	4.6.9.	Processing for Contract Definition Type 'CMSI'	. 42
	4.6.10.	Processing for Contract Definition Type 'Euro GC Pooling'	. 42

4.6.11.	Processing for Contract Definition Type 'Clearstream'	
4.7. SEC <i>4.7.1.</i>	URITIES ELIGIBILITY FOR XEMAC Contract Definition Type 'NCB'	43 45
4.7.2.	Contract Definition Type 'CMSI'	
4.7.3.	Contract Definition Type 'Euro GC Pooling'	
4.7.4.	Contract Definition Type 'Eurex'	
4.7.5.	Contract Definition Type 'Clearstream'	
4.8. Maf <i>4.8.1.</i>	к-то-Маккет Re-evaluation of collateral	
4.8.2.	Calculation of Accrued Interest	
4.9. Aut 4.10. Man <i>4.10.1.</i>	OMATIC ALLOCATION/RELEASE IUAL ALLOCATION/RELEASE Brief description	
4.10.2.	How to manually allocate Collateral	
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 instructions	
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	
4.10.10. 5. WORKIN	How to delete a manual allocation/release G WITH XEMAC	60 61
4.10.10. 5. WORKIN 5.1. CON 5.1.1.	How to delete a manual allocation/release G WITH XEMAC ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description.	
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2.	How to delete a manual allocation/release G WITH XEMAC ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac	
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition	60 61 62 62 62 62 62 62
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES	60 61 62 62 62 62 64 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES Brief Description	60 61 62 62 62 62 62 62 64 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES Brief Description Views in Xemac	60 61 62 62 62 62 62 62 64 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3.	How to delete a manual allocation/release	60 61 62 62 62 62 64 64 73 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES Brief Description Views in Xemac Processing Client References Functions available depending on the status of the Client Reference	60 61 62 62 62 62 62 64 73 73 73 73 73 73 73 83
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 74 83 84 84
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW 5.4. HOW 5.4.1.	How to delete a manual allocation/release	
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW 5.4. HOW 5.4.1. 5.4.2.	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW 5.4. HOW 5.4.1. 5.4.2. 5.4.3.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES. Brief Description Views in Xemac Processing Client References Functions available depending on the status of the Client Reference TO ADJUST THE SETTINGS IN XEMAC TO SET UP CONTRACT CONCLUSIONS Brief Description Views in Xemac Processing Contract Conclusions	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 74 83 84 87 87 88 88 89
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW 5.4. HOW 5.4.1. 5.4.2. 5.4.3. 5.5. HOW	How to delete a manual allocation/release	
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOV 5.4.1. 5.4.2. 5.4.3. 5.5. HOV 5.5.1.	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOW 5.4.1. 5.4.2. 5.4.3. 5.5. HOW 5.5.1. 5.5.2.	How to delete a manual allocation/release <b>G WITH XEMAC</b> ITRACT DEFINITIONS ARE THE BASIS FOR CONTRACT CONCLUSIONS Brief Description Views in Xemac How to display a Contract Definition E CLIENT DATA AS CLIENT REFERENCES Brief Description Views in Xemac Processing Client References Functions available depending on the status of the Client Reference V TO ADJUST THE SETTINGS IN XEMAC Views in Xemac Processing Contract Conclusions Brief Description Views in Xemac Processing Contract Conclusions V TO ENTER CLAIMS IN XEMAC Brief Description Views in Xemac	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOV 5.4. HOV 5.4.1. 5.4.2. 5.4.3. 5.5. HOV 5.5.1. 5.5.2. 5.5.3.	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 73 74 83 84 87 87 88 89 97 97 97 97 99
$\begin{array}{ccccc} 4.10.10. \\ \hline & \text{WORKIN} \\ 5.1. & \text{CON} \\ 5.1.1. & \\ 5.1.2. & \\ 5.1.3. & \\ 5.2. & \text{SAV} \\ 5.2.1. & \\ 5.2.2. & \\ 5.2.3. & \\ 5.2.4. & \\ 5.4. & \text{HOV} \\ 5.4.1. & \\ 5.4.2. & \\ 5.4.3. & \\ 5.5.1. & \\ 5.5.1. & \\ 5.5.2. & \\ 5.5.3. & \\ 5.6. & \text{HOV} \\ 5.6.1. & \\ \end{array}$	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 73 73
4.10.10. 5. WORKIN 5.1. CON 5.1.1. 5.1.2. 5.1.3. 5.2. SAV 5.2.1. 5.2.2. 5.2.3. 5.2.4. 5.3. HOV 5.4.1. 5.4.2. 5.4.3. 5.5. HOV 5.5.1. 5.5.2. 5.5.3. 5.6. HOV 5.6.1. 5.6.2.	How to delete a manual allocation/release	60 61 62 62 62 62 64 73 73 73 73 73 73 73 73 73 73

5.7. INS <i>5.7.1.</i>	TRUCTIONS: HOW TO ENTER AND REMOVE COLLATERAL	122 122
5.7.2.	Views in Xemac	123
5.7.3.	How to enter Collateral in the Collateral Pool	124
5.7.4.	How to display a Credit Instruction	134
5.7.5.	How to modify a Credit Instruction	135
5.7.6.	How to check Credit Instructions	135
5.7.7.	How to delete Credit Instructions	136
5.7.8.	How to reject Credit Instructions	136
5.7.9.	Debit Instructions	136
5.7.10.	Functions available depending on the Status of the Credit or Debit Instructions	141
5.8. Re <i>5.8.1.</i>	PORTS Brief Description	142 <i>14</i> 2
5.8.2.	Views in Xemac	142
	Processing Poports	144
5.8.3.		
5.8.3. 5.8.4. 5.9. B∪	Data Transmission Products Reporting	<i>14</i> 8 149
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1.	Data Transmission Products Reporting BBLE HELP IN CLEARSTREAM''S SYSTEM ENVIRONMENT TTLEMENT LOCATIONS CASCADE / CREATION CASCADE (CBF Settlement Location)	148 149 <b> 150</b> 151 151
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2.	Data Transmission Products Reporting BBLE HELP IN CLEARSTREAM''S SYSTEM ENVIRONMENT TTLEMENT LOCATIONS CASCADE / CREATION CASCADE (CBF Settlement Location) Creation (CBL Settlement Location)	148 149 <b> 150</b> 151 151 153
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS. 7.1. GL	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1.	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.2.	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS. 7.1. GL 7.1.1. 7.1.2. 7.1.3.	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA	Data Transmission Products Reporting	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA	Data Transmission Products Reporting BBLE HELP IN CLEARSTREAM''S SYSTEM ENVIRONMENT ITLEMENT LOCATIONS CASCADE / CREATION CASCADE (CBF Settlement Location) Creation (CBL Settlement Location) Creation (CBL Settlement Location) ARY OSSARY: KEY TERMS Abbreviations Functional Glossary Technical Glossary ENTLY ASKED QUESTIONS Q: GENERAL Q: GC POOLING	
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA 9. YOUR H APPENDICES	Data Transmission Products Reporting   BBLE HELP   IN CLEARSTREAM''S SYSTEM ENVIRONMENT   TTLEMENT LOCATIONS CASCADE / CREATION   CASCADE (CBF Settlement Location)   Creation (CBL Settlement Location)   Creation (CBL Settlement Location)   ARY   OSSARY: KEY TERMS   Abbreviations   Functional Glossary   Technical Glossary   Q: GENERAL   Q: GC POOLING   OSL	148 150 151 151 153 155 155 156 162 164 165 168 168 173 173
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. Se 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA 9. YOUR H APPENDICES APPENDIX 1	Data Transmission Products Reporting   BBLE HELP   IN CLEARSTREAM''S SYSTEM ENVIRONMENT   TTLEMENT LOCATIONS CASCADE / CREATION   CASCADE (CBF Settlement Location)   Creation (CBL Settlement Location)   ARY   OSSARY: KEY TERMS   Abbreviations   Functional Glossary   Technical Glossary   Q: GENERAL   Q: GC POOLING   OTLINE TO XEMAC   S   - CONNECTIVITY VIA SWIFT ISO 15022	148 150 151 153 153 155 155 155 156 162 162 163 163 168 173 175 176
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA 9. YOUR H APPENDICES APPENDIX 2	Data Transmission Products Reporting   BBLE HELP   IN CLEARSTREAM''S SYSTEM ENVIRONMENT   TTLEMENT LOCATIONS CASCADE / CREATION   CASCADE (CBF Settlement Location)   Creation (CBL Settlement Location)   Creation (CBL Settlement Location)   ARY   OSSARY: KEY TERMS   Abbreviations   Functional Glossary   Technical Glossary   Q: GENERAL   Q: GC POOLING   IOTLINE TO XEMAC   S   - CONNECTIVITY VIA SWIFT ISO 15022	148 149 150 151 153 153 155 155 155 156 162 162 162 165 165 165 173 175 176 176 176 176
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA 9. YOUR H APPENDICES APPENDIX 2 APPENDIX 3	Data Transmission Products Reporting   BBLE HELP   IN CLEARSTREAM"S SYSTEM ENVIRONMENT   TTLEMENT LOCATIONS CASCADE / CREATION   CASCADE (CBF Settlement Location)   Creation (CBL Settlement Location)   Creation (CBL Settlement Location)   ARY   OSSARY: KEY TERMS   Abbreviations   Functional Glossary   Technical Glossary   Q: GENERAL   Q: GC POOLING   OTLINE TO XEMAC   S   - CONNECTIVITY VIA SWIFT ISO 15022   - CLAIM ADJUSTMENT REQUEST   - REPORTS IN XEMAC	148 150 151 151 153 155 155 156 156 162 164 163 168 168 173 175 184 184 184
5.8.3. 5.8.4. 5.9. BU 6. XEMAC 6.1. SE 6.1.1. 6.1.2. 7. GLOSS. 7.1. GL 7.1.1. 7.1.2. 7.1.3. 8. FREQUI 8.1. FA 8.2. FA 9. YOUR H APPENDIX 1 APPENDIX 2 APPENDIX 2 APPENDIX 2 APPENDIX 2	Data Transmission Products Reporting   BBLE HELP   IN CLEARSTREAM''S SYSTEM ENVIRONMENT   TTLEMENT LOCATIONS CASCADE / CREATION   CASCADE (CBF Settlement Location)   Creation (CBL Settlement Location)   Creation (CBL Settlement Location)   ARY   OSSARY: KEY TERMS   Abbreviations   Functional Glossary   Technical Glossary   Q: GENERAL   Q: GC POOLING   OTLINE TO XEMAC   S   - CONNECTIVITY VIA SWIFT ISO 15022   - CLAIM ADJUSTMENT REQUEST   - REPORTS IN XEMAC   - ACCESS RIGHTS	148 149 150 151 153 155 155 155 156 162 162 162 163 165 165 165 165 165 165 165 165 162 162 162 162 162 162 162 

## Index of Illustrations

Figure 1: Xemac Main View	6
Figure 2: Xemac View Collateral Positions when pre-filter is activated in Settings	8
Figure 3: Tabular View 'Claim Amount'	9
Figure 4: Full View 'Claims'	11
Figure 5: Logon window	15
Figure 6: Change password window	16
Figure 7: Section 'Processing Information Claim'	33
Figure 8: Compulsory Claim Decrease	48
Figure 9: Manual Allocation/Release –'Instruction Data' Section	51
Figure 10: Manual Allocation/Release –'Allocate' Section	52
Figure 11: Manual Allocation/Release –'Xemac Partner' Section	53
Figure 12: Manual Allocation/Release –'Release' Section	54
Figure 13: Manual Allocation/Release –'Release' Section - automatic selection	56
Figure 14: Eligibility Check	63
Figure 15: Contract Definition – 'Identification' for Deutsche Bundesbank (NCB) Section	64
Figure 16: Contract Definition – 'Identification' for Eurex (Euro GC Pooling: EGCP basket) Section	65
Figure 17: Contract Definition – 'Eligibility' Section for Deutsche Bundesbank (NCB)	67
Figure 18: Contract Definition – 'Eligibility' Section (Eurex)	67
Figure 19: Contract Definition – 'Eligibility' Section (Euro GC Pooling Classic)	68
Figure 20: Contract Definition – 'Contract Details' Section (NCB)	69
Figure 21: Contract Definition – 'Contract Details' Section (Eurex Reuse)	70
Figure 22: Contract Definition – 'Contract Details' Section (Euro GC Pooling)	70
Figure 23: Client References – 'Client Data' Section	74
Figure 24: Client References – 'Settlement Data' Section	77
Figure 25: Client References - Example: 'Client Data' Section	79
Figure 26: Client References - Example: 'Settlement Data' Section	80
Figure 27: 'Settings' Full View	84
Figure 28: Xemac Contract Conclusions Default View	88
Figure 29: Contract Conclusion- 'Identification' Section	90
Figure 30: Contract Conclusion- 'Xemac Partner' Section	92
Figure 31: Contract Conclusion- 'Controls' Section	93
Figure 32: Xemac Default View Claims	98
Figure 33: Claim - 'Xemac Partner' Section	101
Figure 34: 'Claim' - 'Claim Details' Section	103
Figure 35: Tabular View - 'Collateral Positions'	114
Figure 36: Tabular view - 'Allocated Collateral'	115
Figure 37: Tabular View - 'Collateral Overview'	116
Figure 38: Collateral - 'Identification' Section	117

Figure 39: Collateral - 'Allocation' Section	119
Figure 40: Collateral Pool Value view	121
Figure 41: Credit Instruction - 'Credit Instruction' Section	124
Figure 42: Credit Instruction - 'Select Date'	125
Figure 43: Credit Instruction - 'Accounts' Section, Settlement Location 'CBF'	127
Figure 44: Credit Instruction - 'Accounts' Section, Settlement Location 'CBL'	128
Figure 45: Manual Exposure Request –'Exposure Request' Section, Basket 'ECB'	130
Figure 46: Manual Exposure Request –'Accounts' Section	131
Figure 47: Manual Exposure Request –'Accounts' Section	132
Figure 48: New Debit Instruction – Fields empty	137
Figure 49: New Debit Instruction –'Accounts' Section, Settlement Location 'CBF'	139
Figure 50: New Debit Instruction -'Accounts' Section with Source Account, Settlement Location 'CE	3L' 140
Figure 51: New Debit Instruction -'Accounts' Section with BIC, Settlement Location 'CBL'	140
Figure 52: Current Report Definitions View	143
Figure 53: Generated Reports View	144
Figure 54: Reports - 'Schedule' Section	145

## **Index of Tables**

Table 1: Documents available for the customer	2
Table 2: Overview of the functions and their availability	17
Table 3 : Status display for entry of Claims	26
Table 4: Status display for deletion of Claims	26
Table 5: Status display for entered Claims	39
Table 6: Activities on entering a global amount for the first time	40
Table 7: Steps for reducing global amounts	40
Table 8: Activities for the initial notification of a Claim Amount to Eurex	41
Table 9: Activities for the reduction of a Claim Amount	41
Table 10: Overview of available collateral groups in Xemac	44
Table 11: Collateral groups for the provision of collateral in GC Pooling	45
Table 12: Reasons for Compulsory Claim Decrease	48
Table 13: Overview of values in the Comment field of GC Pooling Allocation Instruction	58
Table 14: Field description of 'Eligibility Check' window	63
Table 15: Field description of 'Contract Definition' window - Header	65
Table 16: Field description of 'Contract Definition' window – Section 'Identification'	66
Table 17: Field description of 'Contract Definition' window – 'Eligibility' Section	68
Table 18: Field description of 'Contract Definition' window – 'Contract Details' Section	70
Table 19: Possibilities for referencing a client	75
Table 20: Existing plausibility while entering Client References	75
Table 21: Field description of 'Client Reference' window – 'Client Data' Section	75
Table 22: Field description of 'Client Reference' window – 'Settlement Data' Section	78
Table 23: Available functions depending on status of Client Reference	83
Table 24: Representation of date or number depending on language	84
Table 25: Field description of window 'Settings'	85
Table 26: Field description of 'Contract Conclusion' window – 'Identification' Section	91
Table 27: Field description of window 'Contract Conclusion' – Section 'Xemac Partner' Own Profile	92
Table 28: Field description of 'Contract Conclusion' window – 'Xemac Partner' Section Counterparty	93
Table 29: Call by originator	96
Table 30: Claim Status (originator)	100
Table 31: Field description of 'Claim' window – Header	102
Table 32: Field description of 'Claim' window – 'Xemac Partner' Own Profile Section	102
Table 33: Field description of window 'Claim' – Section 'Xemac Partner' Counterparty	102
Table 34: Field description of 'Claim' window - 'Claim Details' Section	103
Table 35: Description of field settings of a selected Claim - Header	106
Table 36: Description of field settings of a selected Claim – 'Xemac Partner' Own Profile Section	106
Table 37: Description of field settings of a selected Claim – 'Xemac Partner' Counterparty Section	107
Table 38: Description of field settings of a selected Claim – 'Claim Details' Section	107
Table 39: Exposure adjustment and collateralisation for CMSI Claims.	110

Table 40: Field description of 'Display Allocated Security' view – Header	117
Table 41: Field description of 'Display Allocated Security' view – 'Identification' Section	118
Table 42: Field description of 'Display Allocated Security' view – 'Allocation' Section	120
Table 43: Field description of 'Collateral Pool Value' view	121
Table 44: Field description of 'New Credit Instruction' view – Header	125
Table 45: Field description of 'New Credit Instruction' view – 'Credit Instruction' Section	125
Table 46: Field description of 'New Credit Instruction' view – Section 'Accounts' Section for CBL	129
Table 47: Field description of 'New Exposure Request' view – Header	130
Table 48: Field description of 'New Exposure Request' view – 'Exposure Request' Section	130
Table 49: Field description of 'New Exposure Request' view – 'Account' Section	132
Table 50: File Transfer/SWIFT instruction mechanism	133
Table 51: Description of the Xemac behaviour depending on the instruction settlement date	133
Table 52: Text of status row depending on the instruction status	135
Table 53: Field description of view 'New Debit Instruction' – Header	137
Table 54: Field description of 'New Debit Instruction' view – 'Debit Instruction' Section	138
Table 55: Available function/Status of Online instructions	141
Table 56: Available function/Status of File Transfer, SWIFT or IBM Websphere MQ instruction	141
Table 57: Time of Report Generation	146
Table 58: Period of Report Generation	146
Table 59: Field description of 'Display Report' view – Header	146
Table 60: Field description of 'Display Report' view – 'Schedule' Section	146
Table 61: Field description of 'File save into' window	147
Table 62: Available Reports in Xemac	188
Table 63: Description of Columns of Report 'Claim Amount'	189
Table 64: Description of Columns of Report 'Current Claims'	190
Table 65: Description of Columns of Report 'Daily Change Global Amount'	191
Table 66: Description of Columns of Report 'Historical Claims'	192
Table 67: Description of Columns of Report 'Detailed Claim Amount CMSI'	193
Table 68: Description of Columns of Report 'Current Client References'	193
Table 69: Description of Columns of Report 'Allocated Collateral'	194
Table 70: Description of Columns of Report 'Allocated Collateral per CRef'	195
Table 71: Description of Columns of Report 'Allocation Changes'	196
Table 72: Description of Columns of Report 'Allocations'	197
Table 73: Description of Columns of Report 'Collateral Pool'	198
Table 74 Description of Columns of Report 'Collateral Pool per CRef'	199
Table 75: Description of Columns of Report 'Collateral Pool Value'	200
Table 76: Description of Columns of Report 'Collateral Positions'	200
Table 77: Description of Columns of Report 'Collateral Overview'	201
Table 78: Description of Columns of Report 'Historical Allocation Instructions'	202
Table 79: Description of Columns of Report 'Contract Conclusions Number'	203
Table 80: Description of Columns of Report 'Historical Contract Conclusions'	204

Table 81: Description of Columns of Report 'Own Contract Conclusions'	
Table 82: Description of Columns of Report 'Third Party Contract Conclusions'	
Table 83: Description of Columns of Report 'Eligible Securities per CDef'	
Table 84: Description of Columns of Report 'Own Contract Definitions'	
Table 85: Description of Columns of Report 'Third Party Contract Definitions'	
Table 86: Description of Columns of Report 'Credit and Debit Instructions'	
Table 87: Description of Columns of Report 'Historical Credit/Debit Instructions'	
Table 88: Description of Columns of Report 'Rejected Instructions'	210
Table 89: Description of Columns of Report 'Deletion by System'	211
Table 90: Access rights – Coding example	
Table 91: Possible Combinations of transactions and functions of the KX context menu	213
Table 92: CASCADE Foreign Currencies	

## 1. INTRODUCTION



Chapter 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; and
- 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. <u>WELCOME TO XEMAC</u>



## 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.
- 2. **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.
- 3. **Bi-lateral Contracts**. Bi-lateral contracts can be entered into between Customers, covering exposures for various purposes, for example, credit lines for Clearstream.
- 4. **General Collateral (GC) Pooling Repo**. Launched in March 2005, GC Pooling is a highly liquid market for secured funding in EUR, USD and CHF. 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 Xemac, CmaX, CASCADE 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.

5. **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 sub-menus are accessible from the main menu. Access to Xemac functionality is obtained by 'left-clicking' on the Main View icons, or 'Rightclicking' to access the function options.

🔀 6335 - Xemac Main View - 5.6			
File clearstream			
	Instructions	Allocation Instructions	Exposure Requests
Xemac®	Claims	Collateral	Reports
	Client References	Contract Definitions	Contract Conclusions
			Settings

Figure 1: Xemac Main View

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

- <u>Instructions</u>: In this icon, user can credit/debit collateral into/from the collateral pool. More details are available in section 5.7 'Instructions: How to enter and remove Collateral'.
- <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 5.5 'How to enter Claims in Xemac').
- <u>Collateral:</u> Customers can view their collateral positions, allocated collateral or both combined through collateral overview. More details are available in section 5.6 'How to display Collateral'.
- <u>Reports:</u> Customers can generate reports through this icon. The server makes the generated reports available as printout or file (see section 5.8 'Reports').

## 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 5.2 'Save client data as Client References').
- <u>Contract Conclusions:</u> Here, customers maintain Contract Conclusions with the Deutsche Bundesbank, Eurex as well as with any other Collateral Taker (see section 5.4 'How to set up Contract Conclusions').
- <u>Contract Definitions</u>: Four types of Contract Definitions exist within Xemac (see section 5.1 'Contract Definitions are the basis for Contract Conclusions'):
  - 'NCB' (which is the basis for Contract Conclusions with Deutsche Bundesbank or another national central bank e.g. 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" (for Contract Conclusions with Eurex).

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

- <u>Settings</u>: Presents a number of user configurable options regarding Xemac presentation (see section 5.3 'How to adjust the Settings in Xemac'):
  - 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 5.9 'Bubble Help');
  - Colour: Credits/debits, free and other securities being presented in contrasting on-screen colours;
  - Filter: Activates or deactivates a filter menu bar in all tabular views to enter filter criteria for all available columns;
  - Pre-filter: Activates or deactivates a pre-filter (see Figure 27: 'Settings' Full View) for three different tabular views: Collateral Positions, Allocated Collateral and Collateral Overview (Under icon Collateral). It

is performed with one of the following criteria: Client Reference, Counterparty, ISIN and Settlement Location. Below is a sample view of Collateral Positions when the pre-filter is activated in Settings:

X Collateral Pos	itions - Pre-filter	×			
Please select a	n option				
Filter selection	n				
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 2.4.2 'Menu item 'Options': How to define a view as standard view'. 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:

- <u>**Tabular view**</u>: this is an overview in tabular form of, for example, all Claims currently available in Xemac.
- <u>Full view</u>: 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:

X 633	🔀 6335 - Claim Amount							
Claim View Output Columns								
Filter Options								
<ple< th=""><th colspan="8"><please select="" value=""></please></th></ple<>	<please select="" value=""></please>							
<b>.</b> 2	Participant	Claim	1 Claim	Collateral	Cover	Counterparty		
	No.	Currency	Amount	Value	Ratio			
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 🚽	
•								
	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 right-click 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 5 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, 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 5.8 'Reports'.

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.	200700008	Version	1
Xemac Partner		Claim Det	ails	Processing	Information
Own Profile					
Participant 6335	5 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				
					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 'Settings', 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 5.3 'How to adjust the Settings in Xemac'.

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 2008 R2 Standard / 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

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

Xemac Logon Production Version - 5.6	6	- 🗆 🗵
clearstream	ÖRSE	
Xemac®		
User ID Password	d	
Log on	Change Cancel	

Figure 5: Logon window

The user must log on with user ID and 8-digit password.

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.

Xemac Logon Production Version - 5.6					
clearstre	ƏM DEUTSCHE BÖRSE GROUP				
Xer	nac®				
	User ID New Password Repeat New Password	6335000783			
	Log on	Return			

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 'Cancel' 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	Copy	Check	Confirm	Reject	Manual Allocation/ Release <sup>1)</sup>	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>1)</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:

## 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 NCBs (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.

- 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 Repo in 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.
- The participant enters the Client Reference that is intended to be used for Repo trades. The participants cannot enter/modify the Clearer and Member 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 Member 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 Member 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 5.7.3.3 Instructions for CBL Settlement Location for more details); or
- 8. Enter manual Exposure Requests (see 5.7.3.4 Entry of manual Exposure Request) 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. <u>KEY FUNCTIONS AND BASIC</u> <u>PRINCIPLES</u>



## 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 institution, that is, the 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.

#### 4.2.1. Particularities with respect to Contract Conclusions

Only the responsible institution 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.
Function	Description of status	Claim can be	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	No	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		e 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-eyes 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-eyes 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-eyes principle:

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

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

When the user with user ID 6335000785 wants to notify Deutsche Bundesbank of a global amount, the Claim will then be in 'Entry' status. A second user 6335000784 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-eyes principle.

The user has three bank 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 4.2.1 'Particularities with respect to Contract Conclusions'.

## 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 4.2.2 'Particularities with respect to Claims'.

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 5.7.3.4 'Entry of manual Exposure Request'.

## 4.4. <u>Reciprocal confirmation</u>

Compared to the four-eyes 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 bank 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 institution 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. <u>Examples</u>

## 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 201200001 and how the notion of status and version can develop.

Function	System Claim Number	Version	Status	Actor
New	201200001	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	201200001	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

Chapter 4. Key functions and basic principles

step and to 'Entry Confirmed Checked' in the second step. The version remains unchanged.

Function	System Claim Number	Version	Status	Actor
Confirmation	201200001	1	Entry checked confirmed	MASCHI NELL
Check	201200001	1	Entry confirmed checked	MASCHI NELL

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	201200001	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	201200001	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	201200001	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	201200001	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	201200001	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	201200001	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	201200001	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.

Function	System Claim Number	Version	Status	Actor
Modify/Edit	201200001	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	201200001	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	201200001	2	Entry Rejected	CT (User 1))
Check	201200001	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.

🔀 6335 - Display Claim							_ 🗆 X
Own Claim No.	1	System Claim No.		2012000001	Version		151
Own Contract No.		System Contract No.		2012000001	Version		1
Xemac Pa	artner	Claim Det	ails		Processing	Information	L
	Date		Time			User	
Entry	11/12/2012		10:22:27		63	35620001	
Check	11/12/2012		10:26:34		63	35620002	
Confirmation	11/12/2012		10:26:34		M/	ASCHINELL	
Check	11/12/2012		10:26:34		MA	ASCHINELL	
							Close

Figure 7: Section 'Processing Information Claim'

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 4.6.5 'Special cases for Instructions (Debits and Credits)'.

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, then the column will indicate 'CASCADE'. This is explained in details in sections 4.6.2, 4.6.4 and 4.6.5; that is, 'Special cases for Claims', 'Special cases for Contract Conclusions' and 'Special cases for Instructions (Debits and Credits)' 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-eyes 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	11.12.2012	08:08:08	6335111111

According to the four-eyes 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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333

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 an Deutsche Bundesbank employee. Depending on the outcome, Deutsche Bundesbank needs to perform certain actions:

# 1. Case. The first Deutsche Bundesbank employee confirms the reduction of the global amount

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

Function	Date	Time	User
Entry	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Confirmation	11.12.2012	11:11:11	7069555555

Only Deutsche Bundesbank can see the third row.

A second Deutsche Bundesbank employee must process this confirmation within the scope of the four-eyes 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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Confirmation	11.12.2012	11:11:11	7069555555
Check	11.12.2012	13:13:13	7069777777

# <u>1b) The second Deutsche Bundesbank employee rejects the reduction of the global amount</u>

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

#### Chapter 4. Key functions and basic principles

Function	Date	Time	User
Entry	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Confirmation	11.12.2012	11:11:11	7069555555
Rejection	11.12.2012	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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Confirmation	11.12.2012	11:11:11	7069555555
Check	11.12.2012	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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Rejection	11.12.2012	11:11:11	7069555555
Check	11.12.2012	13:13:13	7069777777

# 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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Rejection	11.12.2012	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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Rejection	11.12.2012	11:11:11	7069555555
Check	11.12.2012	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	11.12.2012	08:08:08	6335111111	
Check	11.12.2012	10:10:10	6335333333	
Confirmation	11.12.2012	11:11:11	7069555555	

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	11.12.2012	08:08:08	6335111111	
Check	11.12.2012	10:10:10	6335333333	

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	11.12.2012	08:08:08	6335111111	
Check	11.12.2012	10:10:10	6335333333	

Chapter 4. Key functions and basic principles

Function Date		Time	User	
Confirmation	11.12.2012	11:11:11	MASCHINELL	
Check	11.12.2012	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 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	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Transfer	11.12.2012	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:

#### Chapter 4. Key functions and basic principles

Function	Date	Time	User	
Entry	11.12.2012	08:08:08	6335111111	
Check	11.12.2012	10:10:10	6335333333	
Execution	11.12.2012	10:10:10	CASCADE	

Function	Date	Time	User
Entry	11.12.2012	08:08:08	6335111111
Check	11.12.2012	10:10:10	6335333333
Execution	11.12.2012	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	Dis	play in proce	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

able 6: Activities of	n entering a	global a	mount 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 (User 2)		
3		Check global amount actually used	
4		Confirm Claim manually (User 1)	

Table 7: Steps for reducing global amounts

Step	Collateral Provider	Collateral Taker	Xemac
5		Check confirmation of Claim (User 2)	
6			Release surplus collateral (System)
7			Report collateralised global amount to Dt. Bbk/Collateral Taker

## 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 (User 1)			
2	Check Claim (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.

Table 9: Activities	for the reduction	of a Claim Amount

Step	Collateral Provider	Eurex	Xemac
------	---------------------	-------	-------

Step	Collateral Provider	Eurex	Xemac
1	Modify Claim (reduce amount) (User 1)		
2	Check Claim (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

## 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 4.6.7 - 'Processing for Contract Definition Type 'NCB'.

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

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

Group Name	Description
BBK SIPO2	Deutsche Bundesbank securities pool 2
EAD BBK	Eligible Asset Database Deutsche Bundesbank (BBK)
EAD BDE	Eligible Asset Database Banco de España (BDE)
EAD BDF	Eligible Asset Database Banque de France (BDF)
EAD BDI	Eligible Asset Database Banca d'Italia (BDI)
EAD CBF	EAD securities with Settlement Location CBF
EAD DNB	Eligible Asset Database De Nederlandsche Bank (DNB)
EAD ECB	Eligible Asset Database European Central Bank (ECB)
EAD NBB	Eligible Asset Database National Bank Belgium (NBB)
EUREX	Eurex Clearing Eligible Securities Database
EUREX GCP	GCP – EAD excl. non-approved Relayed Links and Close Links
EUREX GCP ECB MXQ	ECP ECB MXQ – EAD excl. Issuer Groups 3,4,7,8,9 and Asset Type 11
EUREX GCP EQUITIES	Eurex Equities GC Pooling Eligible Securities Database
EUREX GCP INT MXQ	GCP INT MXQ – Eurex Int. Maximum Quality Eligible Securities Database
EUREX GCPX	GCPX – EAD excl. Asset Type 03 (of Issuer Group 3+4) and 11
Index AEX	Amsterdam Exchange (AEX) Index
Index ATX	Austrian Traded Index
Index BEL 20	BEL 20 Index
Index CAC 40	CAC 40 Index
Index DAX 30	Index of 30 top German stocks
Index DJ Euro Stoxx 50	Index of the largest sector leaders in the Eurozone
Index IBEX 35	IBEX 35 Index
Index MDAX	MDAX Index
Index OMX Hel. 25	OMX Helsinki 25 Index
Index PSI 20	PSI 20 Index
Index SMI	Swiss Market Index (SMI)

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 (that is, Collective safe custody) 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. With 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) and 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 solely for Deutsche Bundesbank claims or 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:

Basket	Collateral Group
ECB Standard GC Pooling Basket	EUREX GCP
ECB Extended GC Pooling Basket	EUREX GCPX
Equition CC Pooling Packet	EUREX GCP
Equilies GC Fooling Basket	EUREX GCP EQUITIES
GC Pooling INT MXQ Basket	EUREX GCP INT MXQ

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

## 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 5.1.3.3 – "Contract Details' Section' 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 re-evaluation 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 Cla	im							
Own Claim No.		System Claim No.	200600	0001 Version	8182			
Own Contract No.	5000013005	System Contract No.	200600	0001 Version	4			
Xema	ic Partner	Claim De	tails	Processing Inform	nation			
Contract Data								
Own Contract No.	5000013005 🔻 S	/stem Contract No.	2006000001 🔍	Contract Version	4 🗸			
Contract Name	BANK A B C D				-			
Claim Data								
Own Claim No.								
Amount		3,754,856,817.95	Currency	EUR	-			
Collateralised from	ı (	1/10/2013	Collateralised until					
Comment	DE00013							
Claim Control		Additio	onal Information					
GCP Reuse								
🗌 Automatic Clair	n Decrease Request	Instru	ction Reference / Event	Corporate A	ctions			
Last Valuation Date & Time 02/10/2013 07:41:05								
Collateral Value	3,755,	015,818.81 EUR	Cover Ratio	100.0	0 %			
					Close			

Figure 8: Compulsory Claim Decrease

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:

 Table 12: Reasons for Compulsory Claim Decrease

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

### 4.8.2. Calculation of Accrued Interest

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

• Inclusive

<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.

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. <u>Automatic Allocation/Release</u>

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 4.10.2 'How to manually allocate Collateral');
- Release collateral (section 4.10.3 'How to manually release Collateral'); and
- Substitute collateral, that is, substitute allocated collateral with available, eligible collateral (section 4.10.4 'How to substitute Collateral')

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':

- <u>Access from 'Claims'</u> 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</u> <u>'Collateral 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.

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 - Manual Allocatior	ı / Release						_ 🗆 ×
Claim Amount	-2,003,640,209.8500	EUR	Relevant Claim Amount		-2,003,640,209.8500		EUR
Overcollateralisation	36.2850	EUR	Overcollateralisation	after Simulation		36.2850	EUR
Instruction Data	Allocate		Release	Xemac Pa	rtner	Processing Ir	nformation
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 - Manual Allocatio	on / Release							
Claim Amount	-2,003,640,209.8500	EUR	Relevant Claim	Amour	nt	-2,	003,640,209.8500	EUR
Overcollateralisation	36.2850	EUR	Overcollaterali	sation	after Simulati	on	36.2850	EUR
Instruction Data	Allocate		Release		Xemac	Partner	Processing li	nformation
Eligible, free Collateral	Eligible, free Collateral							
SIN	Settlement Location Ty	ne No	minal Value/A	Collater	al Value			
1 DE0001041887	CBF E	00 110	11,759,000.00	14,90	9,445.11			
2 DE0001240190	CBF E		995,000.00	1,02	7,872.69			
3 DE0001780807	CBF E		17,047,000.00	16,77	9,560.59			
4 DE0002100732	CBF E		700,000.00	35	9,194.76			
5 DE0002100781	CBF E		2,000,000.00	1,02	6,270.74			
6 DE0002101151	CBF E		370,000.00	19	0,212.06			
7 DE0002131042	CBF E		85,000,000.00	88,41	1,840.20			
8 DE0002146826	CBF E		3,151,000.00	3,10	2,183.13			-
0 00000170010			250,000,00	10	5 600 07			
Selected Value			s	elect				
-Collateral to be allocated	1	w.a. bla			- Nelve			
SIN	Settlement Location I ly	rpe INC	ominal Value/A	collater	al value			
							OK	Cancel
							UN	Cancer

#### Chapter 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. If this value does not correspond to the smallest tradable unit or a multiple thereof, Xemac will automatically round the **Selected Value** accordingly.

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.

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

X 6335 - Manual Allocation / Release								
Claim Amount	-2,003,640,209.8500 EU 36.2850 EU		Relevant Claim Amou	-2,003,640,209.8500		EUR		
Overcollateralisation			Q Overcollateralisation after Simulation		36.2850		EUR	
Instruction Data Allocate			Release Xemac Pa		rtner Processing In		nformation	
Own Profile								
Participant 6335	Participant 6335 Name		IC Bank					
	Client Reference	BL	Z 60050000 ACC	1234567			*	
	Client	AF	ACABC					
Counterparty								
Participant 7	069 Name		DEUTSCHE BUNDES	BANK				
	Client Reference						_	
	Client						-	
						ок	Cancel	

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:

Claim Amount Overcollateralisation Instruction Data		-2,003,640,209.85	00	EUR Relevant Clai	m Amount		-2,003,64	0,209.850	EUR
		36.2850 Allocate		EUR Overcollateralisation after Simulation			on 36.2850		EUR
				Release	Xemac Part		tner Processing		Information
lloca	ited Collateral								
	SIN	Settlement Location	Typ	e Nominal Value/A	Collateral Value	Releasable	Nominal	Value/R	eleaseabl
1	DE0001780807	CBF	E	2,953,000.00	2,906,672.28		2,953	00.000	
2	DE0002146826	CBF	E	116,849,000.00	115,038,716.87		116,849	00.000	-
3	DE0003157004	CBF	E	24,771,000.00	24,729,690.12		24,771	,000.00	1
4	DE0007271629	CBF	E	109,364,000.00	106,430,857.52		109,364	,000.00	
5	DE000A0Y2YM7	CBF	E	150,000,000.00	139,576,800.00		150,000	00.000	
6	DE000A0Y2ZF8	CBF	E	250,000,000.00	232,464,375.00		250,000	00.000	
7	DE000BLB3ML7	CBF	E	150,000,000.00	131,873,127.18		150,000	00.000	
elect	ted Value			Select		_	Substitut	ion / Autom	atic Selec
elec	ted Value			Select			Substitut	ion / Autom	atic Selec
elec	ted Value	Settlement Location	Тур	Select      Nominal Value/A	Collateral Value	Date	Substitut	ion / Auton	atic Selec
ollat	ted Value	Settlement Location	Тур	Select	Collateral Value	Date	Substitut	ion / Autom	atic Selec

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. If this value does not correspond to the smallest tradable unit or a multiple thereof, Xemac will automatically round up the **Selected Value** accordingly.

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 ' $^{\circ}$  ' (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 4.10.3 'How to manually release Collateral'.

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.

eralisation ion Data ollateral	36.28 Allocate	50 I	EUR					,0	00,010,200,200,0	,500	
ion Data pllateral	Allocate			EUR Undercollateralisation after Simulation Release Xemac Part		nulation	139,576,763.71		150	50 EUR g Information	
ollateral		_				Xemac Partner		Processing In			
OIN											
SIN	Settlement Location	Тур	e Nor	ninal Value/A	Collatera	I Value	Releasab	e Nomi	nal Value/	Rele	aseabl
001780807	CBF	E	2	2,953,000.00	2,906	672.28	(	2	953,000.00		
02146826	CBF	E	1	16,849,000.00	115,038	,716.87		116	,849,000.00		
03157004	CBF	E	-	24,771,000.00	24,729	,690.12		24	771,000.00		
07271629	CBF	E	1	09,364,000.00	106,430	,857.52		109	,364,000.00		
JOAOY2YM7	CBF	E	1	50,000,000.00	139,576	,800.00			0.00		
)0A0Y2ZF8	CBF	E	2	50,000,000.00	232,464	,375.00		250	,000,000.00		
OBLB3ML7	CBF	E	1	50,000,000.00	131,873	127.18		150	00.000,000		
be released		L	× 1								
SIN	Settlement Location	Typ	e Nor	ninal Value/A	Collatera	I Value	Date		Time		
OIN	oomoninent coomon	- * YM	0 1401			and the second se			Time		
	02146826 03157004 07271629 0A0Y2YM7 10A0Y2ZF8 0BLB3ML7 0BLB3ML7 be released SIN	02146826 CBF 03157004 CBF 107271629 CBF 10A0Y2YM7 CBF 10A0Y2F8 CBF 10BLB3ML7	02146826 CBF E 03157004 CBF E 07271629 CBF E 0A0Y2YM7 CBF E 10A0Y2ZF8 CBF E 10BLB3ML7	02146826         CBF         E         11           03157004         CBF         E         11           007271629         CBF         E         11           0A0Y2YM7         CBF         E         11           0A0Y2YM7         CBF         E         11           0BLB3ML7         C	02146826 CBF E 116,849,000.00 03157004 CBF E 24,771,000.00 07271629 CBF E 109,364,000.00 0A0Y2YM7 CBF E 150,000,000.00 0BLB3ML7 CBF E 150,000,000.00 0BLB3ML7 CBF E 150,000,000.00 BBLB3ML7 CBF E Select be released SIN Settlement location Type Nominal Value(A	02146826         CBF         E         116,849,000.00         115,038           03157004         CBF         E         24,771,000.00         24,729           007271629         CBF         E         109,364,000.00         106,430           0A0Y2YM7         CBF         E         150,000,000.00         139,576           0BLB3ML7         CBF         E         250,000,000.00         131,873           0BLB3ML7         CBF         E         150,000,000.00         131,873           0BLB3ML7         CBF         E         50,000,000.00         132,874           Image: Select         Image: Select         Image: Select         Image: Select           SIN         Settlement Location         Type         Nominal Value(A         Collateral	02146826         CBF         E         116,849,000.00         115,038,716.87           03157004         CBF         E         24,771,000.00         24,729,690.12           07271629         CBF         E         109,364,000.00         106,430,857.52           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18           DBLB3ML7         CBF         E         150,000,000.00         132,574,644,375.00           DBLB3ML7         CBF         E         150,000,000.00         133,873,127.18           DBLB3ML7         CBF         E         150,000,000.00         132,574,644,375.00           DBLB3ML7         CBF         E         150,000,000.00         133,873,127.18           DBLB3ML7         CBF         E         150,000,000.00         132,954,644,375.00           DBLB3ML7         CBF         E <t< th=""><th>02146826         CBF         E         116,849,000.00         115,038,716.87           03157004         CBF         E         24,771,000.00         24,729,690.12           07271629         CBF         E         109,364,000.00         106,430,857.52           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00           0BLB3ML7         CBF         E         250,000,000.00         232,464,375.00           0BLB3ML7         CBF         E         150,000,000.00         232,464,375.00           0BLB3ML7         CBF         E         150,000,000.00         139,576,800.00           IME         Select         Select         Select         Select</th><th>02146826         CBF         E         116,849,000.00         115,038,716.87         116           03157004         CBF         E         24,771,000.00         24,729,690.12         24           07271629         CBF         E         109,364,000.00         106,430,857.52         109           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         250           0BLB3ML7         CBF         E         150,000,000.00         232,464,375.00         250           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150      <t< th=""><th>02146826         CBF         E         116,849,000.00         115,038,716.87         116,849,000.00           03157004         CBF         E         24,771,000.00         24,729,690.12         24,771,000.00           07271629         CBF         E         109,364,000.00         106,430,857.52         109,364,000.00           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         0.00           0BLB3ML7         CBF         E         150,000,000.00         232,464,375.00         250,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         &lt;</th><th>02146826         CBF         E         116,849,000.00         115,038,716.87         116,849,000.00           03157004         CBF         E         24,771,000.00         24,729,690.12         24,771,000.00           07271629         CBF         E         109,364,000.00         106,439,857.52         109,364,000.00           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         0.00           0A0Y2YF8         CBF         E         250,000,000.00         232,464,375.00         250,000,000.00           0A0Y2F8         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         130,555,20         250,000,000.00           0BLB3ML7         CBF         E         150,555,200,20         250,000,000.00         250,000,000,000,00           0BLB3ML7         CBF         E</th></t<></th></t<>	02146826         CBF         E         116,849,000.00         115,038,716.87           03157004         CBF         E         24,771,000.00         24,729,690.12           07271629         CBF         E         109,364,000.00         106,430,857.52           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00           0BLB3ML7         CBF         E         250,000,000.00         232,464,375.00           0BLB3ML7         CBF         E         150,000,000.00         232,464,375.00           0BLB3ML7         CBF         E         150,000,000.00         139,576,800.00           IME         Select         Select         Select         Select	02146826         CBF         E         116,849,000.00         115,038,716.87         116           03157004         CBF         E         24,771,000.00         24,729,690.12         24           07271629         CBF         E         109,364,000.00         106,430,857.52         109           0A0Y2YM7         CBF         E         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       0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         &lt;</th><th>02146826         CBF         E         116,849,000.00         115,038,716.87         116,849,000.00           03157004         CBF         E         24,771,000.00         24,729,690.12         24,771,000.00           07271629         CBF         E         109,364,000.00         106,439,857.52         109,364,000.00           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         0.00           0A0Y2YF8         CBF         E         250,000,000.00         232,464,375.00         250,000,000.00           0A0Y2F8         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         130,555,20         250,000,000.00           0BLB3ML7         CBF         E         150,555,200,20         250,000,000.00         250,000,000,000,00           0BLB3ML7         CBF         E</th></t<>	02146826         CBF         E         116,849,000.00         115,038,716.87         116,849,000.00           03157004         CBF         E         24,771,000.00         24,729,690.12         24,771,000.00           07271629         CBF         E         109,364,000.00         106,430,857.52         109,364,000.00           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         0.00           0BLB3ML7         CBF         E         150,000,000.00         232,464,375.00         250,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         150,873,127.18         150,000,000.00           0BLB3ML7         CBF         <	02146826         CBF         E         116,849,000.00         115,038,716.87         116,849,000.00           03157004         CBF         E         24,771,000.00         24,729,690.12         24,771,000.00           07271629         CBF         E         109,364,000.00         106,439,857.52         109,364,000.00           0A0Y2YM7         CBF         E         150,000,000.00         139,576,800.00         0.00           0A0Y2YF8         CBF         E         250,000,000.00         232,464,375.00         250,000,000.00           0A0Y2F8         CBF         E         150,000,000.00         131,873,127.18         150,000,000.00           0BLB3ML7         CBF         E         150,000,000.00         130,555,20         250,000,000.00           0BLB3ML7         CBF         E         150,555,200,20         250,000,000.00         250,000,000,000,00           0BLB3ML7         CBF         E

#### Chapter 4. Key functions and basic principles

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.

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:

- 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.
- An allocation/release instruction, until it is executed completely, blocks any upcoming further allocation/release instructions. As instructions linked to the repo trades are carried out in batch settlement modes, any open (unexecuted) allocation/release instruction generated just before the commencement of the batch cycle obstructs the execution of the upcoming system-generated allocation/release instructions in the batch cycle. Therefore, the XEMAC system does not permit a user to enter an allocation/release instruction from about six minutes before (as well as during) the batch settlement cycle SDS1. The allocation/release instructions existing in the system in 'Entry' status are therefore deleted before the commencement of the batch settlements. All such deleted instructions are visible through the 'Deletion by System' system-generated report. These restrictions are applicable to GC Pooling Claims and reuse Claims under the Contract Definition Types 'NCB' and 'Eurex'.

#### 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	Repo Trade number of GC Pooling Trade
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 Com	ment field of GC Poolir	a Allocation Instruction
	or values in the oom		g Anocation matuction

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:

- A) 50 Million (M) 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 50M.
- B) If the customer now enters into another trade of 70 Million as Repo Seller, the existing allocations (collateral value 50M) are released to Eurex and additional allocation of 20M is made to Eurex, whereby the net Claim becomes (-) 20M from 50M. The instruction by which the release of 50M and allocation of 20M 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 are pending 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 subsequently rejected.

#### 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 or CmaX / Creation, but no feedback (settlement confirmation) has been received from the respective position-keeping system. Typically, this corresponds, for example, to the situation where instructions are sent to CASCADE during the batch settlement cycle.

#### 4.10.7. How to view existing manual allocation/release instructions

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.

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.

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

Entered allocations and releases must both be checked within three bank 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.

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.

#### 4.10.9. 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'. 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 bank business days of its rejection, it will be deleted.

#### 4.10.10. 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.

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

The sections of the 'Manual allocation/release' full view are described in sections 4.10.2 'How to manually allocate Collateral' and 4.10.3 'How to manually release Collateral'. 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. WORKING WITH XEMAC


# 5.1. <u>Contract Definitions are the basis for Contract</u> <u>Conclusions</u>

# 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, with additionally 50 equities in the GC Pooling Equity Basket, then tens of thousands eligible securities in the GC Pooling ECB Extended basket and latest introduced GC Pooling INT MXQ Basket with eligible securities issued by central banks, central governments and supranationals in non-EUR currencies. 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 Institution**.

For responsible institutions (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). The Collateral Provider can also doubleclick 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.

M 0.	35 - Eligibility Che	ck										_ 6
Parucipant 6335												
C	ode ISIN											
S	IN											
												Check
	Responsible	Contract	Version		Name							
	Institute	Definition No.	of Contract Definition		of Contract Definition	SIN	Sect	unties Description	Haircut (%)	Settlement Location CBF	Settlement Location CBL	Limit
1	7069	1	5	Deutsche Bundesl	bank	DE000LBW0PP2	LBBW	08/13	1.00	Yes	Yes	
2	7500	2011000004	1	Collateralis. Eurex	Clearing/Pledge	DE000LBW0PP2	LBBW	08/13	17.00	Yes	Yes	375,000,000.00
3	7525	1	7	Übereign. m. Best.	übertrag w. EuGCP	DE000LBW0PP2	LBBW	08/13	1.00	Yes	Yes	
4	7525	2008000001	8	Übereign. m.Best.i	ibertrag w. EuGCPX	DE000LBW0PP2	LBBW	08/13	1.00	Yes	Yes	
5	8261	1	29	Clearstream Secu	rities Lending	DE000LBW0PP2	LBBW	08/13	1.00	Yes	Yes	
6	8261	5	1	Clearstream CMS0	0	DE000LBW0PP2	LBBW	08/13	1.00	Yes	No	
7	8261	2011000005	1	Clearstream CMSI		DE000LBW0PP2	LBBW	08/13	1.00	Yes	No	
	0004	2012000002	1	Clearstream CMSI	2	DE0001 DW0DD2	I DDIA/	08/13	1.00	Vec	Vec	

Figure 14: Eligibility Check

Table 14: Field description of 'Eligibility Check' window

	Eligibility	/ Check Window
Name	Field Status	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 Institution, 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 2.3.1 'Tabular View' and 2.3.2 'Full View'. 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	7069	Contract Defi	nition No.	1	Version	7
Identification	E	ligibility	Contract E	Details	Processing Info	rmation
esponsible Institute	71	069				
contract Definition No.	_	1				
lame	Deutsche Bundes	bank			-	
	NOR					

Figure 15: Contract Definition – 'Identification' for Deutsche Bundesbank (NCB) Section

🗙 7525 - Display Contract I	Definition						_ 🗆
Responsible Institute	7525	Contract Defin	ition No.	1	Version		1
Identification		Eligibility	Contract Detail	S	Processin	g Information	
Responsible Institute		7525					
Contract Definition No.		1					
Name	Übereign. m. Bes	st.übertrag w. EuGCP					
Contract Definition Type	Euro GC Pooling						
Code	ISIN						
Basket SIN	DE000A0AE077	EURE	X REPO EO GC ECB EAI	D			
Basket	EGCP						
						C	lose

#### Figure 16: Contract Definition – 'Identification' for Eurex (Euro GC Pooling: EGCP basket) Section

Con	Contract Definition Header					
Name	Field Status	Description				
Responsible institution	Output	This field displays the participant number of the responsible institution, for example Deutsche Bundesbank.				
Contract Definition No.	Output	Older Contract Definitions are single- digit numbers; since 2011, it is always 10 digits. It starts with the current year followed by an incremental number of Contract Definitions for that year per customer (for example, '2012000001').				
Version	Output	Starts with the number '1' and				

#### Table 15: Field description of 'Contract Definition' window - Header

	'Identification'	Section
Name	Field Status	Description
Responsible institution	Output	This field displays the participant number of the responsible institution, 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) is displayed here.
Basket (only 'Euro GC Pooling')	Output	This field displays the basket short name (for example, 'EGCP', 'EGCPX', 'GCP Equities' or 'GCP INT MXQ').

Table 16: Field descri	ntion of 'Contract	Definition' window -	Section (Identification)
Table 10. Field descri	phon of Contract	Demnition 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.

espor	nsible Institute		7069	Con	tract Definiti	on No.		1	Version		7
	Identification	Y	EI	ligibility	Y	Cor	ntract Details	r	Process	sing Inform	nation
ailabl	le Collateral Gro	ups					Included Coll	lateral (	Groups		
	Group N	ame						Gr	oup Name		Haircut (%
EA	DBBK		Eligible A	sset 🔺	A	id	1 FAD BB	K	oupriume		0.0
3 EA	D BDE		Eligible A	sset			1 10 00	15			0.0
EA	D BDF		Eligible A	sset							
EA	D BDI		Eligible A	sset							
EA	DCBF		EAD sect	urities	Ren	love					
EA	D DNB		Eligible A	sset 👻							
	111		1								
aircu clude	III III IIII IIII IIII	% urities	ement Locati	ion			Included Ind	lividual	Securities	t l acation	Hoirout (0
aircu clude	it ed Individual Sec SIN	% surities Setti	ement Locati	ion			Included Ind	l <b>ividual</b> SIN	Securities Settlemen	it Location	Haircut (%
aircu clude BE(	It ed Individual Sec SIN 6222243816 6222243816	% surities CBF CBI	ement Locati	ion			Included Ind	lividual SIN	Securities Settlemen	It Location	Haircut (%
aircu clude BE( BE(	It SIN 6222243816 6222243816 6222243817279	% surities CBF CBL CBF	ement Locati	ion			Included Ind	lividual SIN	Securities Settlemen	it Location	Haircut (%
aircu clude BE0 BE0 BE0 BE0	III ad Individual Sec SIN 6222243816 6225487279 6225487279	% CBF CBL CBF CBL CBF CBL	ement Locat	ion			Included Ind	lividual SIN	Securities Settlemen	it Location	Haircut (%
aircu clude BE( BE( BE( BE(	III ed Individual Sec SIN 6222243816 62225487279 6225487279 6225915971	% Curities CBF CBL CBF CBL CBF CBL CBF	ement Locati	ion			Included Ind	<b>lividual</b> SIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE( BE(	III ed Individual Sec SIN 6222243816 6222243816 62225487279 6225487279 6225487279 6225947279	% Setti CBF CBL CBF CBL CBF	ement Locati	ion			Included Ind	lividual SIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE( BE(	III ed Individual Sec SIN 6222243816 6222243816 62225487279 6225487279 6225487279 6226915971	% Settl CBF CBL CBF CBL CBF CBL	ement Locati	ion			Included Ind	<b>lividual</b> BIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE( BE(	III ed Individual Sec SIN 6222243816 6222243816 62225487279 6225487279 62256915971 6226915971	% Settl CBF CBL CBF CBL CBF	ement Locat	ion				lividual BIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE(	Individual Sec           SIN           6222243816           6222243816           6222487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279           6225487279	% UTITIES Settl CBF CBL CBF CBL CBF	ement Locati	ion			Included Ind	lividual BIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE( BE(	Individual Sec           SIN           6222243816           6222243816           622243816           6222487279           6225487279           6225487279           6226915971           Add	% Urities CBF CBL CBF CBL CBF	ement Locati	ion			Included Ind	lividual BIN	Securities	It Location	Haircut (%
aircu clude BE( BE( BE( BE( BE(	Individual Sec           SIN           6222243816           6222243816           6222243816           62225487279           6225487279           6226915971           6000045074           Add           sues	% vurities CBF CBL CBF CBL CBF	ement Locat	ion			Included Ind	lividual BIN	Securities	it Location	Haircut (%
aircu clude BE( BE( BE( BE( BE( BE( BE( BE( BE( BE(	Add	% vurities CBF CBL CBF CBL CBF CBL CBF	ement Locat	ion				lividual BIN	Securities	It Location	Haircut (%

Figure 17: Contract Definition – 'Eligibility' Section for Deutsche Bundesbank (NCB)

les	ponsible Institute		7500	Contrac	ct Definition No.	20	11000003	Version		1
	Identification	ľ	E	ligibility		Contract De	etails	Processing I	Informati	on
/ai	lable Collateral Group	S				Inclu	ded Collatera	l Groups		
	Group Nan	ne					(	Group Name	H	aircut (9
1	BBK SIP02		Deutsch	e Bun 🔺	Add	1	EUREX			0.0
2	EAD BBK		Eligible /	Asset 📃						
3	EAD BDE		Eligible /	Asset						
1	EAD BDF		Eligible /	Asset		-				
5	EAD BDI		Eligible /	Asset	Remove					
6	EAD CBF		EAD sec	curities 👻		1				
T				•						
lai (cl	ircut uded Individual Secur SIN	% ities Settle	ment Locat	tion		Inclu	uded Individua	al Securities	cation Ha	aircut (9
lai	uded Individual Secur SIN	% ities Settle	ment Local	tion			uded Individua	al Securities	cation Ha	aircut (9
vn	Incut SIN	% ities Settler	ment Locat temove	tion			uded Individua SIN	al Securities	cation Ha	aircut (%

Figure 18: Contract Definition – 'Eligibility' Section (Eurex)

espor	nsible Institute		7525	Contra	ct Definition P	10.	1	1	Version		14
	Identification		Elig	gibility		Contrac	t Details	7	Processi	ng Inform	ation
ailabl	le Collateral Grou	ps			1	_ In	cluded Collate	eral Gro	ups		
	Group Na	ime						Grou	Name		Haircut (9
BB	3K SIPO2		Deutsche	Bun 🔺	Add		1 EUREX GO	P	orianite		0.0
EA	DBBK		Eligible As	sset =			I LONEX GO	21			0.0
EA	DBDE		Eligible As	sset							
EA	DBDF		Eligible As	sset							
EA	D BDI		Eligible As	reat							
EA	DODE			ssel	Remove	8					
	U CBF		EAD secu	rities 🗸	Remove						
aircu	It Individual Sect	% urities	EAD secu	on	Kemove		ncluded Individ	dual Se	curities	Location	Hairout /0
aircu clude	III ed Individual Sect SIN D000A0GLY4	% urities Settlern CBF	EAD secu		Kemove		ncluded Individ	dual Se	curities Settlement	Location	Haircut (%
clude ATO	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	% irities Settlen CBF	EAD secure	DN	Kemove		ncluded Individ	dual Se	curities Settlement	Location	Haircut (%

Figure 19: 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 5.6.4 'Collateral Pool Value View'.

ʻE	ligibility' Section	on
Name	Field status	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	Not used
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		7069 Con	tract Definition No.	1	Version	9
Identification	r	Eligibility		Contract Details	Processing Info	ormation
Allocation Type				GCP Reuse		
Pledge	O Transfer			O Not Permittee	1	
Appropriation Full transfer of title     Transfer External		Permitted	Basket EGCF			
	Full transfer	of title for exterr	nal use	O Exclusively (1	ransferred securities	s only)
	C Transfer	EGC of title for GC Po	oling securities	O Automatic		
Accrued Interest Valuat	ion	Claim Amount P	remium	Evaluation Metho	d	
Inclusive				Common Eurosy	stem Pricing Hub	
O Exclusive			%	Home Basket	t for GCP Reuse	
Time to Maturity				Concentration Lin	nit	
2020				Limit Overall		
none				Limit per Clea	arer	

Figure 20: Contract Definition – 'Contract Details' Section (NCB)

#### Chapter 5. Working with Xemac

Responsible Institute		7500 Contr	ract Definition No.	2011000006	Version	2
Identification	r	Eligibility	C	ontract Details	Processing In	formation
Allocation Type				GCP Reuse		
Pledge	○ Transfe	r		O Not Permitted		
O Appropriation	Full transfer	of title		O Permitted	Basket EGC	CP
	Full transfer	of title for externa	al use	Exclusively (T	ransferred securitie	es only)
	O Transfer Full transfer	r EGC of title for GC Poo	ling securities	O Automatic		
Accrued Interest Valua	tion	Claim Amount Pr	emium	Evaluation Method	l.	
Inclusive						
O Exclusive			79	⊮ Home Basket	for GCP Reuse	
Time to Maturity				Concentration Lim	nit	
5				Limit Overall		
none		<b>*</b>		🗌 Limit per Clea	rer	

Figure 21: Contract Definition – 'Contract Details' Section (Eurex Reuse)

	3	7525 Contr	act Definition	No. 1	Version	14
Identification	r	Eligibility	Y	Contract Details	Processing Inform	ation
llocation Type				GCP Reuse		
O Pledge	O Transfer			O Not Permittee	d	
O Appropriation	Full transfer	of title				
	O Transfer	C Permitted		Basket		
	Full transfer	of title for externa	luse	O Exclusively (	Fransferred securities on	ly)
Transfer EGC						
	Full transfer	of title for GC Pool	ing securities	Automatic		
ccrued Interest Valuati	ion	Claim Amount Pre	emium	Evaluation Metho	d	
Inclusive				Eurex Clearing G	C Pooling	
			1.00 %			
C Exclusive				Home Baske	t for GCP Reuse	
ime to Maturity				Concentration Lin	nit	
				Limit Overall		
none		-				
				Limit per Clea	arer	

Figure 22: 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.

Table 18: Field description of 'Contract Definition' window – 'Contract Details' 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> <li>'Transfer' for transfer of securities to a CCB (Cash Correspondent Bank);</li> <li>'Transfer External' for Transfer of securities between international customers;</li> <li>'Transfer EGC' for transfer of securities corresponding to trades in GC Pooling.</li> </ul>		
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.		

 $<sup>^2</sup>$  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' Section				
Name	Field Status	Description		
GCP Reuse	Output	<ul> <li>Depending on selection it allows or restricts the reuse of securities out of GC Pooling.</li> <li>Not Permitted - reuse of securities is not allowed.</li> <li>Permitted - reuse is allowed for 'E' and 'T' securities.</li> <li>Exclusively - reuse allowed only for 'T' securities.</li> <li>Automatic - flagged for Contract Definition 'Euro GC Pooling', underlining the fact that received securities will be reused within GC Pooling automatically for other trades.</li> </ul>		
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: - 'Common Eurosystem Pricing Hub' used for Claims based on Contract Definition Type 'NCB' - 'Eurex Clearing' used for Claims based on Contract Definition Type 'Eurex' - 'Eurex Clearing GC Pooling' used for Claims based on Contract Definition Type 'Euro GC Pooling' - 'Clearstream' used for Claims based on Contract Definition Type 'Clearstream' 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	<ul> <li>The Concentration Limit is a Limit per security defined by Eurex Clearing to be allowed for allocation in the Claim.</li> <li>'Limit Overall' – applies for Claims based on Contract Definition Type 'Eurex' where a GC Pooling Reuse is 'Not Permitted'.</li> <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 5.2.3.1.1 'Client Data.

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 historical information of the Client References that were created and subsequently deleted.

# 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

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.

🔀 6335 - New Client Reference					
Participant 6335	ABC Bank				
Client Data		Settlement Data	Proc	essing Informatio	n
Client Reference	-				
Institute Type	•	Institute Reference			
Custody Account Type	•	Custody Account Reference			
Client					
Comment					
Date					
Creation					
Deletion					
				ОК	Cancel

Figure 23: 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, BLZ or ACC	According to custody account type
4	BIC, BLZ or ACC	According to institution type	Blank	Blank
5	BIC, BLZ or ACC	According to institution type	BIC, BLZ or ACC	According to custody account type

Table	19	Possibilities	for	referencing	a client
IUNIC		1 000101111000		rererenoing	u onone

Table 20: Existing plausibility while entering Client References

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)
KTO	1 to 11 (numerical)	KTO	1 to 13 (numerical)

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.			

Table 21: Field description of 'Client Reference' window - 'Client Data' Section

'Client Data' Section					
Name	Field Status	Comment			
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.			
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).			

#### 5.2.3.1.2 'Settlement Data' Tab

- 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 four times a day (After SDS1, 14:00, 16:00 and at End of Day).
- 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 across all Xemac Client References.
- The Segregated Account is the participant Creation account for collateral receipts linked to GC Pooling trades.
- Clearer and Member 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.

X 6335 - New Client Reference		
Participant 6335 ABC B	ank	
Client Data	Settlement Data	Processing Information
CBL BIC Collateral Provider Reservation Reservation Account	Automatic Provisioning	Automatic Return After SDS1 At 14:00 At 16:00 End of Day
Segregated Account		
ID	Cash	
Clearer ID	RTGS Account	
Member ID	Creation Cash Account	
		OK Cancel

Figure 24: 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 (After SDS1, 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.	
Member ID	Optional entry (Mandatory Entry for Euro GC Pooling)	The Member 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 Member 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	try lit is used for reporting purposes. It is allowed to input five digits (Entry or modify functions). Between the last two fields, if one is filled, the other field must also be filled	

#### 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 ticked.
- The Auto-Return flag is not ticked.
- The BIC Collateral Provider is entered as 'ABCDEF99'.
- The Reservation Account is entered as '12345'.
- The Segregated Account is entered as '54321'.
- The Clearer and Member ID are entered as 'CLEAR' and 'MEMBE' respectively.

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

🔀 6335 - New Client Referen	nce				
Participant 633	5 ABC Bank				
Client Data	1	Settlement Data	Proc	essing Information	
Client Reference	L		1		
Institute Type	BLZ 🔻	Institute Reference	600500000		
Custody Account Type	ACC 🔻	Custody Account Reference	1231234		
Client	GC-Pooling ABC				
Comment					
common					
Date					
	_				
Creation					
Deletion					
				ок	Cancel

Figure 25: Client References - Example: 'Client Data' Section

X 6335 - New Client R	eference		
Participant	6335 ABC Bar	nk	
Clien	it Data	Settlement Data	Processing Information
CBL BIC Collateral Pro Reservation Reservation Acco	vvider	ABCDEF99 12345  Automatic Provisioning	Automatic Return After SDS1 At 14:00 At 16:00 End of Day
Segregated Acco	unt	54321	
ID Clearer ID Member ID	CLEAR	Cash RTGS Account Creation Cash Account	
			OK Cancel

Figure 26: 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 5.2.3.1 'How to create new Client References'. 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 5.2.3.1 'How to create new Client References'.

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 5.2.3.3 'How to delete Client References'.

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 'How to delete Client References'. 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. 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.

	Status of Client Reference				
Availability of function	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 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.

Participant			
6335 💌 A	BC Bank		
CASCADE			
Clearing Sub Account	550		
Settlement Date	14/01/2015		
User			
Ueor ID 622611111	Language	Pre-filter	Bubble-Help
0551111	└ □ German	✓ activated	✓ activated
Color	English	Filter	Information Message
		<b>∠</b> activated	✓ activated
Reference Currency	Code		
ISO Code EUR	Code ISIN		•
Information			
Default Write Directory P:	\Winprog\Xemac5.6\Pi	rod\write\	
Current Write Directory P:	Winprog\Xemac5.6\Pi	rod\write\	

Figure 27: '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	Field Status	Description	
Participant [Number]	Output	This field displays Xemac participant number.	
Participant [Name]	Output	This field contains the name of the institution.	
[CASCADE] Clearing sub-account	Output	At present, 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. The colours will not be visible in the following Xemac windows: Check Manual Selection, Historical Allocations Instructions, Allocation Instructions without PKS Notification, View of Credit Instructions and View of Debit Instructions.	
[User] Pre Filter	Mandatory Field	Enables activation/deactivation of pre-filter functionalities as 'Client Reference', 'Counterparty', 'Settlement location' or 'ISIN' under icon "Collateral" (see Figure 2: Xemac View Collateral Positions when pre-filter is activated in Settings).	
[User] Filter	Mandatory Field	Enables activation/deactivation of filter functionalities in the tabular views.	
[User] Mandatory Field Enables activation/deactivation of t Bubble Help		Enables activation/deactivation of the Xemac Bubble Help function.	

#### Table 25: Field description of window 'Settings'

'Settings' Window				
Name	Field Status	Description		
[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.		
[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 or refused.

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

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 4.3 'Four-eyes Principle' and 4.4 'Reciprocal confirmation').

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.

🗙 View Manager: Contract Conclusions				
Select View	v View			
Origin	Description	Standard View		
Xemac	Contract Conclusions Number	-		
Xemac	Historical Contract Conclusions	-		
Xemac	Own Contract Conclusions	Х		
Xemac	Status not checked	-		
Xemac	Third Party Contract Conclusions	-		
		Close		
		Close		

Figure 28: 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 made exclusively available to 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 institution. This is why the user can always display the Contract Conclusions he has entered with his institution 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 Con	tract No.	2005000025	Version	1
Identification	Xe	mac Partner	Y	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	ie Bundesbank			
Version 3	Ту	NCB				-
Own Status		Enter	ing Claim Perio	d		
Only Collateral Provide	er	Vali	d from			17/03/200
🔾 Only Collateral Taker						
O Both		Vali	d until			

Figure 29: 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	Field Status	Comment					
Responsible institute	Output	This field displays the Xemac participant number of the institution that set up this 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 institution.					
[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 is displayed as '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 not currently filled.					

Table 26: Field description of 'Contract Conclusion' window – 'Identification' Section

🗙 6335 - Display Cor	ntract Conclu	sion							- 🗆 ×
Counterparty		7069 System C		Contract No.	ontract No. 2005000025		Version		1
Identificat	tion	:	Xemac Part	iner	Controls		Processing Informatio		n
Own Profile									
Participant	6335 Na	me		ABC Bank					
	Cli	ent Referer	ice	BLZ 600	50000 ACC	1234567			-
	Cli	ent		ABCABC					
Counterparty									
	_								
Participant	7069	Name		DEUTS	CHE BUNDE:	BBANK			
		Client De							
		Client Re	ierence						
		Client							
		Cherk							
								Clo	)se

Figure 30: 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	Field Status	Comment				
Participant	Output	The Xemac participant number is displayed here.				
Name	Output	The name of the customer's institution 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.				

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 Conclusio	n			<u> </u>
Counterparty	7069 System Contract No.	2005000025	Version	1
Identification	Xemac Partner	Controls	Processi	ng Information
Allocation Automatic Manual	Claim Confirmation Automatic Manual		Contract Change Con a Automatic Manual	firmation
				Close
				CIUSC

Figure 31: 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 5.4.3.1 'How to display a Contract Conclusion'. 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 Member ID. However it is possible to confirm more than one Contract Conclusion with another Client Reference with a different combination of Clearer and Member ID. It is not possible to confirm a Contract Conclusion without a Clearer and Member ID.

Contract Conclusions not confirmed within three bank 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 institution 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 bank 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 institution 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 status is								
	Collateral Taker <sup>1</sup> Collateral Provider <sup>2</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			

Tabla	20.	Call	hv	originator
rable	29.	Gall	IJУ	originator

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

2. 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 2nd and 4th 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:
  - 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.

🔀 Selection / Default View Claims 📃 🗖							
Select View View							
Origin	Description	Standard View					
Xemac	Automatically Confirmed	-					
Xemac	Claim Amount	Х					
Xemac	Claim Number	-					
Xemac	Daily Change Global Amount	-					
Xemac	Historical Claims	-					
Xemac	Status not checked	-					
		Close					

Figure 32: 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.

The Claim's status is									
	Collateral Provider <sup>1</sup>				Collateral Taker <sup>2</sup>				
Function	Entry	Entry Checked	Entry Rejected	Deletion Checked	Confirmation	Rejection	Confirmation Checked	Rejection Checked	Confirmation Rejected
New									
Display	Yes	Yes	Yes	Yes	Yes <sup>3</sup>	Yes <sup>3</sup>	Yes	Yes	Yes <sup>3</sup>
Modify	Yes	Yes	Yes				Yes	Yes	
Delete	Yes	Yes	Yes				Yes	Yes	
Check	Yes		Yes						
Reject	Yes								
Confirm									

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

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

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

3. 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 2.3.1 'Tabular View' and 2.3.2 'Full View'. 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.

🔏 6335 - New Claim			
Own Claim No.		System Claim No.	Version
Own Contract No.		System Contract No.	Version
Xemac Par	tner	Claim Details	Processing Information
Own Profile			
Participant 6335	Name	ABC Bank	
	Client Reference	BLZ 60050000 ACC 123	4567
	Client	ABCABC	
Counterparty			
Participant 7069 -	Name	DEUTSCHE BUNDESBANK	
	Client Reference		
	Client		
			OK Cancel

Figure 33: 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	Field Status	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

Table 32: Field description of 'Claim' window – 'Xemac Partner' Own Profile Section

'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				

Table 33: Field description of window 'Claim' - Section 'Xemac Partner' Counterparty

'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).

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

Syste	m Claim No.	Version		
Syste	em Contract No.	. Version		
ner	Claim Details	Pro	cessing Information	
System C	ontract No. 2012000	227 💌 Contrac	t Version 1	
20/12/20	Curre 12 Collar	ncy EUR teralised until		
rease Request	Additional Info	rmation eference / Event		
	System Control ABC	System Contract No.  ner Claim Details  System Contract No. 2012000  ABC ABC ABC  Curre 20/12/2012 Collat	System Contract No. V ner Claim Details Pro System Contract No. 2012000227 V Contract ABC ABC ABC Currency EUR 20/12/2012 Collateralised until	System Contract No. Version  Iner Claim Details Processing Information System Contract No. 2012000227 Contract Version  ABC ABC Currency EUR 20/12/2012 Collateralised until

Figure 34: 'Claim' - 'Claim Details' Section

<b>Fable 34: Field description of</b>	'Claim'	window -	'Claim	Details'	Section
---------------------------------------	---------	----------	--------	----------	---------

'Claim Details' Section						
Name	Field Status	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				

'Claim Details' Section					
Name	Field Status	Pre-filled/Input possibilities			
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	<ul> <li>This field indicates the reason for automatic Claim changes due to following reasons: <ul> <li>CASCADE Instruction Reference of the GC Pooling trade;</li> <li>Re-evaluation due to changes in eligibility and/or price, or upcoming Corporate event for ISINs allocated in claims.</li> </ul> </li> </ul>			
Collateral Value	Output	Not filled in			
Cover Ratio	Output	Not filled in			

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 in SDS2 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, a restriction applies to the 'Check' of the modified Claim.

A 'Check' cannot be performed from about six minutes before the commencement of the batch settlement cycle SDS1 until the completion of the batch. This restriction for checking of the Claim is applicable to the second user from the side of the Collateral Provider or, in the case of Claim reductions, to the second user from the side of Collateral Taker. 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 5.5.3.2 'How to enter a Claim for 'NCB', 'Clearstream', 'CMSI' and 'Eurex'.

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 1). 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 will be able to reuse the 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 un check 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				

'Xemac Partner' Own Profile Section								
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						
Client Reference	Output	Derived from selected Claim						
Client Output Derived from selected (								

A non-zero Claim must always be entered with a negative sign '-' preceding the amount.

	'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		

Table 38: Description of field settings of a selected Claim - 'Claim Details' Section

	'Claim Details' Section						
Name	Field Status	Comment					
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.					
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.					
Instruction Reference / Event	Output	<ul> <li>This field indicates the reason for an automatic Claim change due to following reasons:</li> <li>CASCADE Instruction Reference of the GC Pooling trade;</li> <li>Re-evaluation due to changes in eligibility and prices or an upcoming Corporate event (see section 4.8.1.1)</li> </ul>					

### 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 their Xemac claims (Exposure Management – "EXPOMA") and related collateral movements (Collateral Management – "COLLMA") via MT558 messages can be received as the answer to an MT527 Claim Adjustment Request message. More details about "Data Transmission Products" can be found under section 5.8.4 – 'Data Transmission Products Reporting'. This Automation process will only be applicable for Claims based on the Contract Definition Types "NCB", "Eurex" and "Bilateral Contracts". The incoming MT527 customer interface will be validated with regards to:

- Xemac opening hours: All MT527 Claim Adjustment requests sent by customers acting as a collateral provider outside Xemac opening hours will be rejected in a timely manner.
- The Sender's Collateral Transaction Reference (SCTR) must match with the System Claim Number of an actual claim in Xemac for which the Xemac Collateral Provider equals PARTY-A and the Collateral Taker equals PARTY-B.
- Execution Requested Date (EXRQ) must be equal to Xemac business date.
- Instruction Type Indicator (CINT) must equal "PADJ".
- Response status (REST) must be empty.
- Transaction Amount (TRAA)
  - must be positive
  - must be consistent with the Xemac format
  - must not be equal to the current value of the Claim Amount
  - currency must match Claim Currency

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:

Table 39: Exposure	adjustment and	collateralisation f	or CMSI Claims

Exposure Adjustment	Collateralisation
Around 13:30	Immediately after exposure adjustment
Around 19:00	Next-day during the morning re-evaluation

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 institutions 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 and 8509 (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 'Accept's' 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'. 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 institution 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 institution (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'.

633 Collete	5 - Collateral Positi	ons w. Oute	ut Columno						
-Ulldu	Ontions	w Outp	ut columns						
Filler	Options								
<pi< th=""><th>ease select value≻</th><th>-</th><th>-</th><th>•</th><th><b>•</b></th><th>+ Rese</th><th>t Filter</th></pi<>	ease select value≻	-	-	•	<b>•</b>	+ Rese	t Filter		
₽	SIN Type		SIN		Settlement Location	Nominal Value / Amount	Collateral Status	System Claim No.	Counterparty
691	XS0257807957	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	2000000016	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	2000000016	7500		
699	XS0267636495	E	CBL	10,000,000	Free				
700	XS0268275749	E	CBL	200,000	Free				
701	XS0268436341	E	CBL	60,000	Free				
702	XS0269226238	E	CBL	49,000,000	Pledged	2000000016	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	2000000016	7500		
707	XS0273120716	E	CBL	400,000	Free				
708	XS0273564434	E	CBL	48,850,000	Free				
709	XS0273564434	E	CBL	18,250,000	Pledged	2000000016	7500		
710	XS0273972397	E	CBL	400,000	Free				
711	XS0276060083	E	CBL	100,000,000	Pledged	2000000016	7500		
712	XS0276299541	म	CBI.	272 000	Free				
							Close		

Figure 35: 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	tion View Outp Ontions	ut Colui	mns					
<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	Туре	Settlement Location	Nominal Value / Amount	Allocation Type	System Claim No.	Counterparty	Counterparty Client
37	DE000A0E9C91	E	CBF	-348,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
38	DECOCACE9DMC	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
11	DE000A0GQZ74	E	CBF	-448,000	Transfer EGC	2008000097	7525	Übereignung EGCPX
12	DE000A0G1RB8	Е	CBF	-3,870,000	Transfer EGC	2005000007	7525	
13	DE000A0HN164	Е	CBF	-1,477,000	Transfer EGC	2005000007	7525	
14	DE000A0HN651	Е	CBF	-35,000,000	Transfer EGC	2005000007	7525	
15	DE000A0H5VC8	Е	CBF	-51,730,000	Transfer EGC	2005000007	7525	
16	DECCOACJEVGO	Т	CBF	15,000,000	Transfer EGC	2005000006	7525	
47	DE000A0JFCN7	Т	CBF	5,000,000	Transfer EGC	2005000006	7525	
48	DE000A0JQA39	Е	CBF	-2,314,000	Pledge	1999000005	7069	
49	DECOCACJQ8K8	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	DECOCACKAJSC	Е	CBF	-100,000,000	Pledge	1999000005	7069	
53	DECOCACKASCO	Е	CBF	-50,000,000	Transfer EGC	2005000007	7525	
54	DE000A0KAV21	Е	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	DECCOACMFBAC	E	CBF	-202,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
59	DE000A0NKNC9	E	CBF	-3,449,000	Transfer EGC	2005000007	7525	
50	DE000A0NKXX4	Е	CBF	-242,000	Transfer EGC	2010000037	7525	GC Pooling USD - Classic Basket
51	DE000A0N3KG9	Е	CBF	-43,000,000	Pledge	2000000016	7500	
52	DE000A0PM797	Е	CBF	-25,000,000	Pledge	1999000005	7069	

Figure 36: 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 / Amount', '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.

X 633 Collate	5 - Collateral Overv eral Overview Vie	iew w Output (	Columns					_	. <u> </u> _ ×
Filter	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>r</th></pi<>	ease select value>	-	•				• +	Reset Filter	r
<b>₩</b>	SIN	Туре	Basket	Settlement Location	Securities Description	Nominal Value / Amount	Collateral Status	Allocation Type	
1	AT000B011614	E		CBF	RZB OESTER. 09-11 4/P	1,000,000	Free		4
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		
5	BE0000304130	E		CBL	BELGIQUE 04/35 44	-1,540,000	Pledged	Pledge	
6	DE000AAR0017	E		CBF	AAREAL BANK MTN.HPF.S.3	70,526,000	Free		
7	DE000AAR0017	E		CBF	AAREAL BANK MTN.HPF.S.3	-1,401,000	Appropriated	Appropriation	
8	DE000AAR0041	Е		CBF	AAREAL BANK IS 09/12	15,646,000	Free		
9	DE000AAR0058	Е		CBF	AAREAL BANK MTN.HPF.S.38	-1,307,000	Pledged	Pledge	
10	DE000AAR0074	Е		CBF	AAREAL BANK MTN.HPF.S.56	282,000	Free		
11	DE000AA01WF6	E		CBF	RBS NV 08/UND.OIL F.	24,000	Free		
12	DE000AA1VQE9	Е		CBF	RBS NV CA.BO.Z10 A20	7,000	Free		
13	DE000A0AB826	Е		CBF	RBS NV SILBER 03/UND	50,000	Free		
14	DE000A0ACW46	Е		CBF	LB.HESSTHUER.OPF 826	500,000	Free		
15	DE000A0AD7F4	Е		CBF	SDB IHS 09(09/12)	1,007,000,000	Free		
16	DE000A0AD7G2	Е		CBF	SDB IHS 09(09/12)	734,500,000	Free		
17	DE000A0AEHR9	Е		CBF	TS LAGO ONE GMBH 08/56 A	8,794,226,152.92	Free		
18	DE000A0AHLK9	Е		CBF	BERLIN, LAND LSA04/12A174	-550,000	Transferred EGC	Transfer EGC	
19	DEUUUTUTARNTZ	म		CBF	DT & H AFR7TERK MTN 766	27 500 000	Free		
Sum Market Value in Reference Currency: 48,462,400,136.66 Sum Collateral Value in Reference Currency: -4,491,400,954.39									

Figure 37: 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	i - Display All	ocated	Security										_ [] >
Code	German Sec	curities	Identification Code	s	IN A	A0AY4W Allocation Statu					Active		
			Identification	1			r			Alloca	ation		
Securi	ity												
Code		German Securities Identification						Deposito	ry				
SIN		A0AY4	W					1,093 %	_BBW	IS.625VAR	06.0		
Type		Е			Baske	ŧ		Settleme	ent Locatio	n CBF			
Collate	eral Pool												
Partic	ipant		6335					ABC Bank					
Client	Reference	BLZ	60050000 ACC	1234	4567			ABCABC					
Tradin	ng Currency									Referen	ce Currency	/	
Marke	et Price			109.85	%	Market Place				EUR	-		
Price	Туре		Eurex Valuation Ra	ate		as of		07/01/2013					
Pool F	actor			1		Xemac Price		109.85	%	Exchan	ige Rate		1.00000
Indexa	ation Coeffici	ient		1									
Nomin			2.50	05.000	FUD					as of			07/01/2013
NOMI	iai vaite		3,50	05,000	EUR					Market	Value		3 850 242 50
Marke	et Value		3,850,2	242.50	EUR					market	vuluc		5,050,242.50
													Close

Figure 38: 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]		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 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.				
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.				

Table 41: Field description of	f 'Display Allocated	Security' view -	· 'Identification' Section

'Identification' Section					
Name	Field Status	Description			
[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

6335 - Display Allocated Secu	rity	000/400/	_	Alles stien Status	0 akir sa	
.ode German Securities identi	incation Code Sin A	UAT4W		Allocation Status	Active	
	Identification Allocation					
Own Profile						
Participant 633	35 Nar	ne ABC Bank				
	Client Referen	ce BLZ 6005000	00 ACC 1234567			
Counterparty						
Participant 750	00 Nar	ne EUREX CLEARIN	NG AG			
	Client Referen	се				
Contract / Claim			Reference Curren	су		
Own Contract No.	3					
Own Claim No.	30		Loix			
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			3,634,628.92
						Close

Figure 39: 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					
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.				
[Ref. Currency] Collateral Value	Output	This field displays the collateral's market value in the reference currency.				

#### Table 42: Field description of 'Display Allocated Security' view – 'Allocation' Section

### 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 will show 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.

X 63	35 - Collateral Pool	Value							<u> </u>
Clair	n Details								
Ow	n Claim No.			20050 C	laim Amount		6	,840,000,000	EUR
Sys	stem Claim No.		2005	5002005 R	elevant Claim Amount		6	,840,000,000	EUR
Eligi	ble, free Collateral								
	SIN	Type	Basket	Settlement Location	Securities Description	Nominal \	/alue/A	Collateral Va	lue
1	AT000B049010	E		CBL	UNICR.BK AUS. 11/14 MTN	10,000	0,000.00	10,217,7	56.7 🔺
2	DE0001040384	E		CBL	BADWUERTT. LSA 05/15R	30,000	0,000.00	32,166,8	364.3
3	DE0001053205	E		CBL	BAYERN SA 05/13S101	75,000	0,000.00	76,733,1	75.5
4	DE0001053213	E		CBL	BAYERN SA 06/14S102	50,000	0,000.00	51,690,7	13.2
5	DE0001240257	E		CBL	BD.LAENDER 26 LSA 07/14	100,000	0,000.00	105,335,0	)44.0
6	DE0001240281	E		CBL	BD.LAENDER 29 LSA 08/15	40,000	0,000.00	43,597,4	44.6
7	DE0001240299	E		CBL	BD.LAENDER 30 LSA 08/14	50,000	0,000.00	52,749,5	70.2
8	DE0001590537	E		CBL	NIEDERS.SCH.A.10/15 A.211	30,000	0,000.00	30,830,0	000.8
9	DE0001590636	E		CBL	NIEDERS.SCH.A.05/15 S203	100,000	0,000.00	107,470,4	100.7
10	DE0001590693	E		CBL	NIEDERS.SCH.A.09/14 A.209	50,000	0,000.00	51,775,6	38.7
11	DE0001726339	E		CBL	LAND NRW SCHATZ02R434	48,000	0,000.00	49,453,4	174.5
12	DE0003078887	E		CBL	ERSTE ABW. EO MTN 03/13	45,000	0,000.00	46,410,2	218.1
13	DE0007483141	E		CBL	DG HYP OE.PF.R.944	15,000	0,000.00	15,510,7	71.4
14	DE000A0AE077	Т	EGCP		EUREX REPO EO GC ECB		0.00	6,840,043,2	238.9
15	DE000A0BNQX7	E		CBL	BERLIN, LAND LSA04/14A1	125,000	0,000.00	131,698,9	959.8
16	DE000A0DRH78	E		CBL	BERLIN, LAND LSA05/15A1	144,000	0,000.00	155,120,9	40.0 🗸
•									
									_
					Sum E-C	Collateral		4,896,361,782.3	7 EUR
	Save As Excel	×			Sum T-C	Collateral		6,840,043,238.9	1 EUR
					Total Su	m	1	1,736,405,021.2	8 EUR
								CI	ose

Figure 40: Collateral Pool Value view

The following table illustrates the field settings of the view:

Table 43: Field description of 'Collateral Pool Value' view

Collateral Pool Value Window				
Name	Field Status	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.		

Collateral Pool Value Window					
Name	Field Status	Comment			
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.			
Nominal Value/Amount	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.			

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.

# 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:

1) 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 take place between the main customer account (000) and the Xemac collateral sub-account (550); 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 quantities 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, 50M in ECB quality).

2) Customers who are **File Transfer** (FT) participants can submit Xemac credit and debit instructions for CBF securities via the LiMa File Transfer interface.

3) Customers who are **SWIFT** participants can submit Xemac credit and debit instructions for CBF and CBL assets via SWIFT.

4) Customers who are **IBM Websphere MQ** participants can submit Xemac credit and debit instructions for CBF securities via the LiMa IBM Websphere MQ 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 12 bank 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 / Creation) and are still awaiting feedback (settlement confirmation) from the position-keeping system. For example:

- When instructions are sent and are awaiting the completion of the SDS1 for RTS processing to commence;
- 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 debit instructions created by the user or CBF that have subsequently been rejected by the settlement systems (CASCADE / Creation). Rejected instructions are deleted automatically within Xemac after 12 bank 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. The instruction is carried out for the sub-account 550 in CASCADE or 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 DE0001060473 for the 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	t Instruction					_ 🗆 🗙
Participant	6335	Instruction No				
Credit	t Instruction		Accounts	Proc	essing Informatio	n
Instruction No. Security	17756					
Code	ISIN					
SIN	DE0001060473		4,911 % BERLIN, LAND LSA01/08	A119 1		
Depository						
Nominal Value		100,000				
Date			CBL			
Settlement Date	24/01/2013	<b>o</b>	Transaction Reference Message Reference			
Comment						
Rejection						
No.	Reason					
					ОК	Cancel

Figure 41: 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, DE0001060473), 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.

s	elect date 🛛 🗙						<	
	<<	Jan	uary	201	5		>>	
	Мо	Tu	We	Th	Fr	Sa	Su	
	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	6	- 7	8	
	Accept				0	Canc	el	

Figure 42: 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.		

able 44:	Field o	description	of 'New	Credit	Instruction'	view –	Header
abic ++.	i iciu c	acaciiption		orcuit	manuchom	AIC M -	neader

Table 45: Field description of 'New Credit Instru	ction' view - 'Credit Instruction' Section
Tuble 40.1 I leiu description of them of cult motifu	

'Credit Instruction' Section				
Name	Field Status	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.		

'Credit Instruction' Section				
Name	Field Status	Comment		
[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 smallest tradable unit.		
[Date] Settlement Date	Input	Current date is the default date. Can be modified by the user as explained above.		
[CBL] Transaction Reference	Output	The CmaX ID (TRCI) of the message exchanged between CmaX and Xemac.		
[CBL] 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	v Credit Instru	iction						
Participant	63	35	Instructi	on No.				
	Credit Instru	ction		Accounts		Proc	essina Informatio	n
Settlement	t Location	● CBF C	CBL					
-Debit Accou	int							
		1						
Account	6335000 💌		Name AB	IC Bank				
Original Inst	tructor							
			_					
Account			Na	me				
Credit Accor	unt							
t a a a unit	8335 550 -		Nomo	ABC Book				_
ACCOUNT	0333 550		Name	ADC Dalik				
		Client	Reference	BLZ 60050000 ACC	1234567			-
			Client	АВСАВС				-
							ОК	Cancel

Figure 43: Credit Instruction - 'Accounts' Section, Settlement Location 'CBF'

An overview of the entries in the 'Accounts' section is as follows:

'Accounts' Section for Settlement Location CBF					
Name	Field Status	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.			

### 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 Xemac sub-account 550).

The selection of the respective Client Reference can be found in section 5.7.3.2.'Instructions for CBF Settlement Location'.

🔀 6335 - New Credit In	struction						
Participant	6335 In	struction No.		L			
Credit In:	struction		Accounts		Proc	essing Informatio	on
Settlement Location	CBF 🖲 CB	L					
Debit Account							
Participant	6335	Name ABC	C Bank				
Source Account	54321						
Credit Account							
		Client Refer	ence BLZ	60050000 ACC	1234567		<b>•</b>
Reservation Accou	nt 12345	(	Client A B C	ABC			-
						ок	Cancel

Figure 44: Credit Instruction - 'Accounts' Section, Settlement Location 'CBL'

The following table provides the overview of the entries required for the credit of a CBL security:

'Accounts' Section for Settlement Location CBL				
Name	Field Status	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] Name	Output	Displays the name of the debit account holder.		
[Debit Account] Source Account	Input	This field should contain the Creation source account number from which the securities are to be transferred in favour of the Reservation Account.		
[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 46: Field description of 'New Credit Instruction' view – Section 'Accounts' Section for CBL

### 5.7.3.4. Entry of manual Exposure Request

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', 'EGCP', 'EGCPX', 'GCP ECB MXQ', '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 four-eyes 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.

The tab-page 'Exposure Request' is depicted below:

X 6335 - New Exposure	e Request					_ 🗆 ×
Participant	6335	Instruction No.				
Exposure	Request		Accounts	Pro	cessing Informatio	on
Instruction No.	1234			Type Manu	al	
Amounts	,					
Requested Amoun	nt	1,000,000	EUR Required Amou	int		EUR
Basket	ECB ECB					
Currency Co	EGCP EGCPX GCP ECB MXQ					
Date	GCP EQUITIES GCP INT MXQ		Additional Information			
Settlement Date 1	4/01/2015		System Claim No.			
			RTS Instruction No.			
Comment			,			
Rejection No.	Reason					
					OK	Cancel

Figure 45: 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.		

Table 47: Field description of 'New Exposure Request' view – Header

Table 48.	Field description	of 'New Expo	sure Request'	view – 'Exp	osure Reques	t' Section
10010 40.1	i iciu ucaciiptio		Joure Request		Josure Reques	

'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.	
[Amounts] Required Amount	Output	The field contains the calculated amount required for SDS, 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.	

'Exposure Request' Section					
Name	Field Status	Comment			
[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 Currency to	o Euro	×
Entry Amount	1,000,0	000 USD 👻
Exchange Rate	1.17	320
as of	13/01/20	015
Amount	848,752	.33 EUR
Transfer		Close

Figure 46: 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 Ехро	sure Re	quest								
Participant	63	35	Instruction No.							
Evnor		unet		Accou	nte		Di	ococcin	a Informatic	<b>01</b>
Ехроз	sure neu	quest		ALLUU	ins			ocessiii	y miormau	
Credit Account										
Particinant		6335 -		Name	ABC E	ank				
T anticipant				Humo	1.202					
			Client Ref	erence	BLZ	600500007	ACC 123	34567		-
Reservation Acc	count	12345		Client	ABC	ABC				-
									ок	Cancel

Figure 47: Manual Exposure Request -'Accounts' Section

An overview of the entries in the 'Accounts' section is as follows:

#### Table 49: Field description of 'New Exposure Request' view – 'Account' Section

'Accounts' Section				
Name	Field Status	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.		

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 as '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 credit instructions are reflected in Xemac and no corresponding movements are registered in CASCADE. 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, 100M of 'EGCP' assets, it is possible that assets worth only 60M 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			
In struction Timin so	• Entered from 07:00 till 17:45.			
Instruction Timings	<ul> <li>Any instructions delivered outside these opening hours will be rejected.</li> </ul>			
	<ul> <li>Successful instructions transmitted to Xemac with immediate status of (Entry Checked')</li> </ul>			
Entry Checks	Status of Entry Checked. Epiled instructions will be 'Poiected' Unlike with online			
	instructions German Ä Ö and Ü characters are not			
	acceptable.			
Deletion or Modification	Not possible. After successful bookings in RTS, reverse			
of instructions	bookings can be performed.			
	Delivery Free of Payment.			
Key characteristics of	Instruction type will be 01 and Securities transfer type			
securities transfer	(COLO/COLI).			
In atmustic na value data	Settlement type will be RTS only			
Instructions value date	Current date or future value date.			
	<ul> <li>Pending credit instructions are rejected on settlement date at the end of the RTS cycle.</li> </ul>			
Rejected Instructions	Debit instructions for which substitutions cannot be performed			
	due to lack of collateral are rejected in Xemac at end of RTS period.			

Table 50: File	Transfer/SWIFT	instruction	mechanism
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### **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.</li> <li>For the debit instructions, if 'held free' securities are available, the instructions are immediately transmitted to CASCADE. If no 'held free' securities are available, the instructions are transmitted to CASCADE as blocked securities and the settlement block will be removed from CASCADE by Xemac after successful completion of an automatically triggered substitution.</li> </ul>					
Future value date	<ul> <li>For credit instructions, on settlement date, the instructions will settle if the balance is available on the account.</li> <li>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 RTS cycle due to lack of 'held free' securities available in Xemac pool.</li> </ul>					

#### **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 need to be generated, 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 5.7.3 'How to enter Collateral in the Collateral Pool'.

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.
'Rejected'	The Instruction could not be executed. It was rejected in CASCADE: - Due to insufficient holdings available; - Due to imminent capital adjustments; - Due to a public holiday; - As the settlement deadline was exceeded; - As the assigned instruction number already exists. It was rejected in Creation: - 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 / 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. 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 bank 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. 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 Debi	it Instruction					
Participant	6335	Instruction No.				
Deb	it Instruction		Accounts	Proc	essing Informati	on
Instruction No. Security						
Code	German Securities Ide	ntification Code				
SIN						
Depository						
Nominal Value						
Date			CBL			
Settlement Date	02/12/2012	•	Transaction Reference Message Reference			
Comment						
Rejection						
No.	Reason					
					ок	Cancel

Figure 48: 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:

Table 53: Field description of view 'New Debit Instruction' – Header

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 54: Field description of 'New Debit Instruction' view – 'D	<b>Debit Instruction' Section</b>
--	-----------------------------------

'Debit Instruction' Section							
Name	Field Status	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 smallest tradable unit.					
[Date] Settlement Date	Input	Current date is the default date. Can be modified by the user as explained above.					
[CBL] Transaction Reference	Output	The CmaX ID (TRCI) of the message exchanged between CmaX and Xemac.					
[CBL] 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.					
[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 Ir	struction No.								
Debit Instruction	Accounts	Processing Information							
Settlement Location									
Debit Account									
Account 6335 550 V Name	ABC Bank								
Client Reference	BLZ 60050000 ACC 1234567	<b>Y</b>							
Client	ABCABC	<b>•</b>							
Credit Account									
Account 6335 000 Name ABC Ba	ank								
Beneficiary									
Account	Name								
		OK Cancel							

Figure 49: 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 Instruction					
Participant 6335	Instruction No.				
Debit Instruction		Accounts	Pro	cessing Informatio	DN
Settlement Location	CBF 🖲 CBL				
Debit Account					
	Client Refere	nce PLZ 6005000	0 ACC 1224567		_
	Client Nerere		0700 1234307		
Reservation Account 12	2345 CI	ient ABCABC			-
Credit Account					
Destinium 0005		ADC Dook			
		ame Abo balik			
Source Account	54321				
				ОК	Cancel

Figure 50: New Debit Instruction -'Accounts' Section with Source Account, Settlement Location 'CBL'

🔀 6335 - New Debit Instru	uction						<u> </u>
Participant 6	335 In	struction No.					
Debit Instru	uction		Accounts		Proc	essing Informati:	on
Settlement Location	⊖ CBF (● C	BL					
Debit Account							
		Client Refere	ence BLZ	60050000 ACC	2 1234567		-
Reservation Account	12345	с	lient ABC	CABC			<b>•</b>
Credit Account							
Participant	6335	- N	ame ABC	Bank			
Bank Identifier Code	ABCDEF	39					
						ОК	Cancel

Figure 51: 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:

Available function depends on status of instruction									
Function/Status of instruction	Entry	Entry Entry Checked Rejected		PKS notification Issued/PKS notification Rejected					
Display	Yes	Yes	Yes	Yes					
Process	Yes		Yes						
Delete	elete Yes		Yes						
Check	Yes		Yes						
Reject	Yes								

Table 55: Available function/Status of Online instructions

#### 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 instructionEntry Entry CheckedEntry RejectedPKS notification Issued/ notification Rejected									
Display	y Yes		Yes						
Process	s								
Delete									
Check	Check								
Reject									

### 5.8. <u>Reports</u>

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. The server makes the generated reports available as hard-copy printouts or as files.

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.

X 633	🗙 6335 - Current Report Definitions								
Report Definitions View Columns									
Filter Options									
<pl< th=""><th colspan="9"><please select="" value=""></please></th></pl<>	<please select="" value=""></please>								
(†)	Report No.	Name	Origin	Automatic Report Generation	Period	Point in Time			
1	1999000281	Allocated Collateral	Xemac	Active	Daily	End of Day			
2	2000000017	Allocated Collateral per CRef	Xemac	-	Daily	After morning re-evaluation			
3	1999000271	Allocation Changes	Xemac	Active	Daily	End of Day			
4	1999000270	Allocations	Xemac	Active	Daily	End of Day			
5	1999000287	Claim Amount	Xemac	Active	Daily	End of Day			
6	2010000253	Collateral Overview	Xemac	Active	Daily	End of Day			
7	1999000275	Collateral Pool	Xemac	Active	Daily	End of Day			
8	2000000044	Collateral Pool per CRef	Xemac	-	Daily	End of Day			
9	1999000299	Collateral Positions	Xemac	Active	Daily	End of Day			
10	1999001017	Contract Conclusions Number	Xemac	-	Daily	After morning re-evaluation			
11	1999000272	Credit and Debit Instructions	Xemac	Active	Daily	End of Day			
12	1999000273	Current Claims	Xemac	Active	Daily	End of Day			
13	1999000280	Current Client References	Xemac	-	Daily	After morning re-evaluation			
14	1999000303	Daily Change Global Amount	Xemac	Active	Daily	End of Day			
15	2008000003	Debit and Credit Instructions	Xemac	Active	Daily	End of Day			
16	2008000226	Eligible Securities per CDef	Xemac	-	Daily	After morning re-evaluation			
17	1999000292	Historical Allocation Instructions	Xemac	-	Daily	After morning re-evaluation			
18	1999000294	Historical Claims	Xemac	-	Daily	After morning re-evaluation			
19	1999000295	Historical Contract Conclusions	Xemac	-	Daily	After morning re-evaluation			
20	1999000293	Historical Credit/Debit Instruction	Xemac	-	Daily	After morning re-evaluation			
21	1999000285	Own Contract Conclusions	Xemac	-	Daily	After morning re-evaluation			
22	1999000286	Own Contract Definitions	Xemac	-	Daily	After morning re-evaluation			
23	2008000002	Participant Contract Definitions	Xemac	-	Daily	After morning re-evaluation			
24	1999000278	Rejected Instructions	Xemac	-	Daily	After morning re-evaluation			
25	1999000290	Third Party Contract Conclusions	Xemac	-	Daily	After morning re-evaluation			
26	1999000291	Third Party Contract Definitions	Xemac	-	Daily	After morning re-evaluation			
						Close			

Figure 52: 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 as hard-copy printouts or 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.

Generated Reports								
ilter (	Options							
<please select="" value=""></please>								
<b>†</b> ⊅	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	List of Change Global Amount		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
14	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
16	6335	Allocation Changes		1999001081	25/02/2010	13:05:56	MASCHINELL	26
17	6335	Allocations		1999001080	25/02/2010	13:05:51	MASCHINELL	235
18	6335	Deletion by System		1999001087	25/02/2010	07:27:36	MASCHINELL	0
19	6335	List of Change Global Amount		1999001084	25/02/2010	07:27:36	MASCHINELL	0
20	6335	Daily Change Global Amount		1999001113	24/02/2010	13:06:45	MASCHINELL	0

Figure 53: Generated Reports View

#### 5.8.3. Processing Reports

#### 5.8.3.1. General comments

The functions for report definitions, that is, Display, Edit 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;
- Debit and Credit Instructions;
- Deletion by System;
- 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 microfilm.

The microfilms are made available after the batch run in the evening of the 10th 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 microfilms are generated on the following bank 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 - Dis	play Report					
Report No.	1999001091	Name	Allocated Collateral		Participant	6335
[				Schedule		
Name			Allocated Collateral			
Automatic	Report Generation		✓ Active			
Reference	e Currency		Code			
ISO Code	FUR		ISIN			
	2011					
Conoratio	n Timo		Deried			
	morning re-evaluati	on	Daily			
End or	f Day		0.000			
						Close

Figure 54: 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 'report' 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
10010 001		report	oonoration

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	Field status	Comment			
Name	Output	The description of the report must be specified.			
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 immediately 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.

**N.B.:** Only reports that were generated manually can be deleted: the automatically generated reports will be deleted from the Xemac system after 12 days.

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	Field Status	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 or HHMMSS. For example, the 'Claim Amount' report for participant 6335 that was completed on 15 January 2013 at 18:15:22 has the file name '6335-Claim Amount\_130115-181522.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 out generated reports

The 'Print' function can be used to print out 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 out, the generated report remains in the tabular view of the generated reports. The user can print out 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.

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. <u>Bubble Help</u>

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. <u>XEMAC IN CLEARSTREAM''S</u> <u>SYSTEM ENVIRONMENT</u>



### 6.1. <u>Settlement locations CASCADE / Creation</u>

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) 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 (CBF Settlement Location)

In CASCADE, positions are transferred from the CASCADE main account into the CASCADE sub-account 550 or vice versa. Changes of position in the Xemac pool are first entered by Xemac in CASCADE and then reflected in Xemac according to the result of the disposition. The instruction status reflects the disposition result.

#### 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 the verified CASCADE instructions as a securities transfer with settlement type "RTS" (free of payment without matching instruction). The settled instruction is first given "Instruction without PKS notification" status. Instructions originated from Xemac cannot be modified in CASCADE.

The next step is the disposition in CASCADE. Depending on the result of the disposition, the change of positions (transfer) is subsequently reflected in Xemac.

Chapter 6. Xemac in Clearstream 's system environment

- If the disposition was successful, the instruction will be reflected in Xemac and the entered security will be available in the collateral positions to collateralise Claims. The settled instruction is given "PKS Notification Executed" status in Xemac.
- If the disposition was not successful, the instruction will not be reflected in Xemac and the instruction is given a rejected status in Xemac. The following could be reasons for a rejection:
  - A lack of positions;
  - Pending corporate actions;
  - A public holiday;
  - Exceeding the settlement deadline (RTS instructions are not carried forward at the end of RTS but are deleted from the verified instruction);
  - The instruction number assigned in Xemac already exists in CASCADE;
  - Failed plausibility check within CASCADE.

#### 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, no changes to the collateral involved are permitted in Xemac.

#### 6.1.1.3. Allocation Types

#### Allocation Type 'Transfer'

The 'Wertpapierauftrag' (WPA) will be 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.

Every customer in Creation is identified by a five-digit account number for source account(s). In principle, this is equivalent to the four-digit CASCADE main account 000. In order to be able to use assets in GC Pooling or in another Claim, these assets must be available in the collateral account, the 'Reservation Account'. This account is equivalent to the CASCADE sub-account 550.

The assets held in the Reservation Account (Own assets) and Segregated Account (received assets in the frame of GC Pooling trades) are visible in Xemac with the CBL settlement location. The assets held in Reservation Account 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. <u>GLOSSARY</u>



Chapter 7. Glossary

### 7.1. <u>Glossary: Key Terms</u>

### 7.1.1. Abbreviations

Abbreviation	Description		
ACC	Account		
AM	Additional Margin		
AMAP	As much as possible		
BIC	Bank Identifier Code		
BLZ	German Bank Code (Bankleitzahl)		
CARCADE	Central Application for Settlement,		
CASCADE	Clearing and Depository Expansion		
CBF	Clearstream Banking Frankfurt		
CBL	Clearstream Banking Luxembourg		
ССВ	Cash Correspondent Bank		
CCP	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		
	Xemac Detailed Collateral and Exposure		
DEALCO	Statement		
Dt. Bbk	Deutsche Bundesbank		
DVP	Datenversandprodukt (Data transmission		
	product)		
EAD	Eligible Assets Database		
ECB	European Central Bank		
EDF	Frankfurt Stock Exchange(Europe,		
F00/F00D	Deutschland, Frankfurt) Code		
	(Euro) GC Pooling		
	Our Socurity		
E (-security)	Cwn Security		
EUDEY	Doutecho Boorco AG and the Swige Stock		
LUKEA	Exchange for financial derivatives		
FURIBOR	Euro Interbank Offered Rate		
GCM	General Clearing Member		
GUI	Graphical User Interface		
ID-KZ	Identification Code: User ID in Xemac		
	International Securities Identification		
ISIN	Number		
КТО	Account (in German – KONTO)		
	Client Master Data System of Clearstream		
KUSTA	Banking Frankfurt		
М	Million		
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 in CASCADE	
SDS (1/2)	Same-Day Settlement	
SIN	Securities Identification Number	
SUALCO	Xemac Summary Collateral and Exposure	
	Statement	
STD	Standard Processing, Night-time	
	settlement	
SWIET	Society for Worldwide Interbank Financial	
SWILL	Telecommunication	
TN	Tomorrow Next	
T (-security)	Transferred security	
ТХТ	Text (file format)	
	German Securities Identification Number	
WKN	(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.

#### • 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 Member ID filled.

#### • CASCADE

Central Application for Settlement, Clearing And Depository Expansion of Clearstream Banking Frankfurt.

#### 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 institution for Contract Definitions of type 'NCB', Eurex for Contract Definition types 'Eurex' and 'Euro GC Pooling' and Clearstream is the responsible institution 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, equivalent to CASCADE in CBF. 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.

#### • Same-Day Settlement (SDS)

Same-day settlement in securities or cash after placing instructions.

#### • 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.

#### • 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. FREQUENTLY ASKED QUESTIONS



### 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 CASCADE 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 <u>www.clearstream.com</u> under Product and Services / Global Securities Financing / Global Liquidity Hub CSD services / Triparty Collateral Services (Xemac) / Xemac Technical Specifications. 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 and USD funding against standardised fixed income and equity baskets;
- Euro cash settlement in Central bank money and, CHF and USD cash settlement in Commercial bank money;
- Four GC Pooling baskets for trading with a wide range of ECB eligible assets;
- 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.

GC Pooling Equity Basket (SIN DE000A1EZNP6)

This basket, which includes all eligible securities from GC Pooling ECB Basket plus Top50 Equities of the HDAX index on Xetra, 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 eligiblie securities issued by Central banks, Central Goverments and Supranationals in non EUR currencies. Minimum rating for assets is 'AA-/Aa3'.

#### • What are the trading hours?

Main trading hours: 07:30–18:00 CET with cutoff time for overnight:

- Euro GC Pooling: 17:00 CET;
- GC Pooling Equity: Overnight: 15:00 CET;
- USD GC Pooling: Currently not possible.
- CHF GC Pooling: Currently not possible.

#### • 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.

Within Claims linked to Contract Definitions allowing Eurex reuse, all baskets are set up as eligible.

• 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
WKN (ISIN)	EGCPX: DE000A0WKKX2 / A0WKKX
	GCP Equities: DE000A1EZNP6 / A1EZNP
	GCP INT MXQ DE000A1PHUP5 / A1PHUP

#### • 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 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.

# • I have opted for 'Automatic Provisioning'. Will Xemac ensure that enough papers are available for GC Pooling trades before the start of the SDS batch?

Yes. For customers with the 'Automatic Provisioning' flag ticked, Xemac triggers automatic requests to have enough papers before the start of SDS batch, provided that eligible assets are available in Creation.

#### • 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 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.

# • Does securities settlement for GC Pooling trades in USD take place in the same way as trades in Euro?

The securities settlement for GC Pooling trades in both currencies is different in the actual mode of settlement. Depending on the 'Terms' of the trade entered by the customer, the settlement of Euro trades takes place either in RTS or SDS. It is known that, for GC Pooling, front legs of 'Overnight (ON)' trades are settled in RTS on the same day whereas the rest are settled in SDS on T+1 or later (depending on the 'Term'). Settlement of trades for USD GC Pooling takes place in RTS only.

# • ""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. What is planned for the future?

New functions and features are being continuously implemented to enhance the attractiveness of the product. In this respect, the introduction of new GC Pooling baskets is expected shortly and also enhancements of GC Pooling Select products.

# 9. <u>YOUR HOTLINE TO XEMAC</u>



Chapter 9. Your Hotline to Xemac

Customers can reach their **functional contact** for Xemac under the following telephone number:

#### +49 (0) 69 211 1 2757

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 1910

# **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 element and condition3	ISO label	Comments on particularities regarding technical implementation or parameterisation
--	-----------	--

Mandatory Sequence A General Information

Senders reference	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'.

<sup>&</sup>lt;sup>3</sup> Mandatory specification = M; conditional mandatory specification = B; optional specification = O; optional default specification = D

#### → Repetitive Optional Sequence A1 linkages

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. * '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'. This instruction number should not already be available in Xemac or in CASCADE. The automatic generation of
		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 instrument (M)	35B	[ISIN1!e12!c] 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).

End of Subsequence B Trade Details

#### → Repetitive Mandatory Sequence C Financial Instrument/Account

Quantity of financial instrument to be settled (M)	36B	36B::SETT//4!c15d e.g. 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 Financial Instrument/Account

Mandatory Sequence	ε	Settlement	Details
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Settlement transaction condition (M)	22F	22F::STCO/DAKV/4!c For Xemac instructions, 22F::STCO/DAKV//YRTG has to be entered. The default value for Xemac instructions is currently
		entered will be rejected.
Type of settlement transaction (M)	22F	22F::SETR//4!c For Xemac instructions, 22F::SETR//COLO or 22F::SETR//COLI has to be entered. The SWIFT code word 'COLO' has been introduced for securities transfer from main account to sub-account 550 (Credit instruction; COLO stands for collateral out). The SWIFT code word 'COLI' has been introduced for securities transfer from sub-account 550 to main account (Debit instruction; COLI stands for collateral in).

→ Repetitive Mandatory Subsequence E1 Settlement Parties

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.

For a credit instruction, the Client Reference has to be added as follows:

Xemac field of Client Reference	SWIFT qualifier	Description
Institute Type / Reference	RECU	Receiver's Custodian
Custody Account Type / Reference	BUYR	Account Beneficiary

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//Credit Instruction without Client	Comment	
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 without 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,	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		
: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	Comment	
Reference	Comment	
:16S:SETPRTY		
:16R:SETPRTY		
:95R::RECU/DAKV/BIC-12345678	Client Reference: Institute Type and Reference	
:16S:SETPRTY		
:16R:SETPRTY		
:95Q::PSET//DAKVDEFF	Place of settlement	
:16S:SETPRTY		
:16S:SETDET		

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,	Nominal value
: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 without 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,	Nominal value
: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//Debit Instruction with Client	Quanta
Reference	Comment
:16S:SETPRTY	
:16R:SETPRTY	
:95Q::PSET//DAKVDEFF	Place of settlement
:16S:SETPRTY	
:16S:SETDET	

## Example of MT542 - Debit Instruction with Client Reference

## <u>Appendix 2 – Claim Adjustment Request</u>

Hereunder a summary of the fields required for the sending of SWIFT format MT527 messages – Claim Adjustment Requests:

Name of information element and condition	ISO label	Comments on particularities regarding technical implementation or parameterisation
Mandatory Sequence A G	eneral Information	
Sondors reference	200	20C::SEME//16x
	200	Unique reference used in the sender's application.
Client's Collateral Instruction Reference (O)	20C	20C::CLCI//16x
		Reference assigned to the instruction by the customer.
Sender's Collateral		20C::SCTR//16x
Transaction Reference (O)	20C	Unique reference identifying the collateral management transaction from the customer's point of view
Function of the		23G::NEWM
message (M)	23G	The only permitted qualifier for customers entering Xemac instructions via SWIFT is 'NEWM'.
Execution		98A::EXRQ//8!n
Requested Date (M)	98A	Date at which the instructing party requests the instruction to be executed.
Instruction Type	22H	22H::CINT//4!c
Indicator (M)		*'PADJ' is Principal/Exposure Adjustment.
Exposure Type	221	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

		95R::PTYA/DAKV/34x
		Instructing party sending the collateral instruction.
		If the Xemac Client Reference is empty, the following entry is required: DAKV/xxxxMSC-NONREFMSC- NONREF (xxxx representing the CBF account number)
		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
		*xxxx $\rightarrow$ the CBF account number
		*aaa $\rightarrow$ Institute Type saved in the Xemac Client Reference
		*12345678901 $\rightarrow$ Institute Reference saved in the Xemac Client Reference
		*bbb $\rightarrow$ Custody Account Type saved in the Xemac Client Reference
		*1234567890123 $\rightarrow$ Custody Account Reference saved in the Xemac Client Reference
		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:
PARTY B (M)	95R	*DAKV/yyyyccc12345678901ddd1234567890123
		*yyyy $\rightarrow$ the CBF account number
		*ccc $\rightarrow$ Institute Type saved in the Xemac Client Reference
		*12345678901 $\rightarrow$ Institute Reference saved in the Xemac Client Reference
		*ddd $\rightarrow$ Custody Account Type saved in the Xemac Client Reference
		*1234567890123 $\rightarrow$ Custody Account Reference saved in the Xemac Client Reference

#### End of Subsequence A1 Collateral Parties

		70E::CINS//10*35x
Collateral Instruction Narrative	70E	Provides additional information on the collateral instruction, is always used and will be copied in the Xemac claim comment but will be truncated to 50 characters.

Optional Repetitive Subsequence A2 Linkages

Description Manageme		20C::PREV//16x
Reference	20C	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
		19A::TRAA//[N]3!a15d
Transaction Amount (O)	19A	*The new Xemac Exposure / Claim Amount and not the amount by which the Claim is adjusted. It must be positive.
		*The Xemac Claim Currency.

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//2012003601	Sender's Collateral Transaction Reference
:23G: NEWM	Function of the Message
:98A::EXRQ//20141022	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-	
	Party A
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?
	Claim Amount	Yes
	Current Claims	No
Claims	Daily Change Global Amount	Yes
	Detailed Claim Amount CMSI	No
	Historical Claims	Yes
Client References	Current Client References	Yes
	Allocated Collateral	Yes
	Allocated Collateral per CRef	No
	Allocation Changes	No
	Allocations	No
	Collateral Pool	No
Collateral	Collateral Pool per CRef	No
	Collateral Pool Value <sup>4</sup>	Yes
	Collateral Positions	Yes
	Collateral Overview	Yes
	Historical Allocation Instructions	Yes
	Contract Conclusions Number	Yes
Contract	Historical Contract Conclusions	Yes
Conclusions	Own Contract Conclusions	Yes
	Third Party Contract Conclusions	Yes
Contract	Eligible Securities per CDef	No
Definitions	Own Contract Definitions	Yes
Demnitions	Third Party Contract Definitions	Yes
	Credit and Debit Instructions	No
Instructions	Historical Credit/Debit Instructions	Yes
	Rejected Instructions	Yes
N/A	Deletion by System	No

<sup>&</sup>lt;sup>4</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.

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	Collateral Value			
Page (only on pdf file)	Counterparty			
	Counterparty Client			
	Counterparty Client Reference			
	Cover Ratio			
	GCP Basket			
	Instruction Reference / Event			
	Name of Counterparty			
	Own Claim No.			
	Own Contract No.			
	Own Status			
	Participant No.			
	System Claim No.			
	System Contract No.			
	Valuation Time			
	Version			

Table 63: Description of Columns of Report 'Claim Amount'

#### **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.

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	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		

Table 64: Description of Columns of Report 'Current Claims'

#### **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.

The following columns are included in the report:

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		
	New Amount		
	Number		
	Old Amount		
	Own Claim No.		
	System Claim No.		
	Time		
	Version		

#### Table 65: Description of Columns of Report 'Daily Change Global Amount'

#### **Report: Historical Claims**

This report contains all historical Claims that have 'Deletion Confirmed Checked' or 'Entry Confirmed Checked (Blocked)' status. This report is used by the Collateral Provider and the Collateral Taker and can be generated on request from the 'Report Definition' view.

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.	Claim Status			
Reference Currency	Client			
ID	Client Reference			
Page (only on pdf file)	Collateralised from			
	Collateralised until			
	Contract Version			
Counterparty				
	Counterparty Client			
	Counterparty Client Reference			
	Instruction Reference / Event			
	Name of Counterparty			
	Own Claim No.			
	Own Contract No.			
	Own Status			
	Participant No.			
	System Claim No.			
	System Contract No.			
	Version			

#### Table 66: Description of Columns of Report 'Historical Claims'

#### **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 / Amount		
Page (only on pdf file)	Participant No.		
	Price Date		
Price Source			
	Quotation		
	Securities Description		
	SIN		
	System Claim No.		
	Version		
	Xemac Price		

Table 67: Descri	ption of Columns	s of Report 'Detailed	d Claim Amount CMSI'
		Sol Report Detailet	

#### **Report: Current Client References**

This report displays all the participant's current Client References (with date of creation) for the Xemac that have 'Entry Checked' status. It is used by the Collateral Provider and the Collateral Taker and can be generated on request from the 'Report Definitions' view.

Table 68: Description of Columns of Report 'Current Client References'

General information	Columns (in alphabetical order)	
Report No.	BIC Collateral Provider	
Data as of	Clearer ID	
Participant No.	Client	
Reference Currency	Client Reference	
ID	Creation Date	
Page (only on pdf file)	Member ID	
	Participant No.	
	Reservation Account	
	Segregated Account	
	Status Client Reference	

#### **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.

Та	able 69: Description of (	Columns of Report 'Allocated Collateral'

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 / Amount			
	Own Claim No.			
	Participant No.			
	Securities Description			
	Settlement Location			
	SIN			
	System Claim No.			
	Туре			

#### **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.

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 / Amount			
	Own Claim No.			
	Participant No.			
	Securities Description			
	Settlement Location			
	SIN			
	System Claim No.			
	Туре			

Table 70. Decemi	ution of Column		(Allonated	Calletanal	
Table 70: Descri	ption of Columns	s or Report	Allocated	Collateral	percker

#### **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.

Table 71: Description of Columns of Report 'Allocation Changes'	
---	--

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 / Amount				
	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 / Amount					
	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.

Table 73: Description	of Columns of R	eport '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 / Amount					
	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 / Amount					
	Price Date					
	Quotation					
	Securities Description					
	Settlement Location					
	SIN					
	Trading Currency					
	Туре					
	Xemac Price					

**Report: Collateral Pool Value** (only in Excel format via 'Claim Amount' or 'Claim Number available' tabular views)

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:

General information	Columns (in alphabetical order)				
Own Claim No.	Basket				
System Claim No.	Collateral Value				
Claim Amount	Limit				
Relevant Claim Amount	Nominal Value / Amount				
	Securities Description				
	Settlement Location				
	SIN				
	Unused Limit				
	Туре				

Table 75: Description	n of Columns of Repo	rt 'Collateral Pool Value'
Tuble To. Description	n or oorannis or repo	

#### **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.

The following columns are included in the report:

Table 76: Description of Columns of Report 'Collateral Positions'

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 / Amount					
	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.

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 / Amount					
	Own Claim No.					
	Participant No.					
	Securities Description					
	Settlement Location					
	SIN					
	System Claim No.					
	Туре					

Table	77.	Descrip	ntion of	Columns	of R	enort '	Collateral	Overview'
Table		Descrip		Columns	0110	eport	Conateral	

#### **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.

The following columns are included in the report:

#### Table 78: 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
	Participant No.
	Processing Time
	Settlement Date
	System Claim No.

#### **Report: Contract Conclusions Number**

This report shows all Contract Conclusions excluding those with 'Deletion Confirmed Checked' status. 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.	Client
Data as of	Client Reference
Participant No.	Contract Definition No.
Reference Currency	Counterparty
ID	Counterparty Client
Page (only on pdf file)	Counterparty Client Reference
	Description of Contract Conclusion
	Own Contract No.
	Participant No.
	Responsible Institute
	Status of Contract Conclusion
	System Contract No.
	Version of Contract Conclusion
	Version of Contract Definition

#### **Report: Historical Contract Conclusions**

The report displays all Historical Contract Conclusions that are no longer applicable for the Xemac participant because they were deleted or rejected or a new version was created. They have 'Blocked' status. 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.	Allocation Type
Data as of	Client
Participant No.	Client Reference
Reference Currency	Contract Definition No.
ID	Contract Definition Type
Page (only on pdf file)	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Description of Contract Conclusion
	Description of Counterparty
	Own Contract No.
	Participant No.
	Responsible Institute
	Status of Contract Conclusion
	System Contract No.
	Valid from
	Valid until
	Version of Contract Conclusion
	Version of Contract Definition

#### **Report: Own Contract Conclusions**

The report displays a Contract Conclusions for a Collateral Taker with 'Entry Confirmed Checked (or Blocked)' status with own status as Collateral Taker. The report is used by 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.	Allocation
Data as of	Allocation Type
Participant No.	Client
Reference Currency	Client Reference
ID	Confirmation Claims
Page (only on pdf file)	Contract Definition No.
	Contract Definition Type
	Contract Modification
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Description of Contract Conclusion
	Own Contract No.
	Own Status
	Participant No.
	Status of Contract Conclusion
	System Contract No.
	Version of Contract Conclusion
	Version of Contract Definition

#### Table 81: Description of Columns of Report 'Own Contract Conclusions'
#### **Report: Third Party Contract Conclusions**

The report shows all Contract Conclusions of a Xemac participant (with a specific Client Reference) acting as a Collateral Provider with the Collateral Taker. All records with 'Entry Confirmed Check (or Blocked)' status will be displayed. The report is used by the Collateral Provider and can be generated on request from the 'Report Definitions' view.

General information	Columns (in alphabetical order)
Report No.	Allocation
Data as of	Allocation Type
Participant No.	Client
Reference Currency	Client Reference
ID	Confirmation Claims
Page (only on pdf file)	Contract Definition No.
	Contract Definition Type
	Contract Modification
	Counterparty
	Counterparty Client
	Counterparty Client Reference
	Description of Contract Conclusion
	Own Contract No.
	Own Status
	Participant No.
	Status of Contract Conclusion
	System Contract No.
	Version of Contract Conclusion
	Version of Contract Definition

#### **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:

Table 83: Description of C	Columns of Report	'Eligible Securities per (	CDef'
Table cel Becchiption el e	verannie er nepere	Engible eeeanaee per t	

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

#### **Report: Own Contract Definitions**

This report contains all Contract Definitions entered by the Xemac participant as Collateral Taker, for example, Eurex or Deutsche Bundesbank. It is used by the Collateral Taker and can be generated on request from the 'Report Definitions' view.

General information	Columns (in alphabetical order)
Report No.	Accrued Interest
Data as of	Allocation Type
Participant No.	Contract Definition No.
Reference Currency	Contract Definition Type
ID	Name of Contract Definition
Page (only on pdf file)	Participant No.
	Status of Contract Definition
	Version of Contract Definition

### **Report: Third Party Contract Definitions**

This report shows an overview of the current Contract Definitions, where a Contract Conclusion exists with a counterparty acting as taker, for example, with Eurex, Dt. Bbk. It is used by the Collateral Provider 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.	Accrued Interest
Data as of	Allocation Type
Participant No.	Contract Definition No.
Reference Currency	Contract Definition Type
ID	Name of Contract Definition
Page (only on pdf file)	Responsible Institute
	Version of Contract Definition

#### Table 85: Description of Columns of Report 'Third Party Contract Definitions'

#### **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.

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 / Amount
	Securities Description
	Settlement Date
	Settlement Location
	SIN

#### **Report: Historical Credit/Debit Instructions**

This report shows the historical Credit and Debit Instructions executed with 'Instruction Successful' or 'Entry Rejected' status (possibly with comment for rejection reason). It is used by the Collateral Provider and can be generated on request from the 'Report Definition' view.

The following columns are included in the report:

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 / Amount
	Participant No.
	Processing Time
	Securities Description
	Settlement Date
	Settlement Location
	SIN

#### Table 87: Description of Columns of Report 'Historical Credit/Debit Instructions'

## **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.

|--|

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 / Amount
	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.

The following columns are included in the 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

Table 89: Description of Columns of Report 'Deletion by System'

# 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

#### Coding example

Table 90: 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	KXFO	Display	AN			
		New	NE			
		Edit	BA			
		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'.

Appendix 4 – Access Rights

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':

1 2 1234 901234567890123456789 KXFO = AN NE BA KP LO

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':

1 2 1234 901234567890123456789 KXFO /= KP LO

The following are the possible combinations of transactions and relevant functions on the basis of the KX context menu:

Functions/ Transactions	Display "AN'	New 'NE'	'Ad' 'BA'	Copy 'KP'	Check 'KT'	Confirm 'BS'	Reject 'ZW'	Manual A/R 'MA'	PKS Notification 'BF'	Delete 'LO'
Logon 'KXAA'					mar	ndatory				
Client References 'KXKU'	х	х	Х		х		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									

Appendix 4 – Access Rights

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** incl. 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

# <u>Appendix 5 – CASCADE Foreign Currencies</u>

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	New Zealand
PLN	Poland
RUB	Russia
SEK	Sweden
SGD	Singapore
TRY	Turkey
USD	USA
ZAR	South Africa

#### Table 92: CASCADE Foreign Currencies

# **INDEX**



# Index

Access Rights	16, 214
Accrued Interest	48
Adopt the current contract	111
Allocation	24
Automatic Allocation/Release	49
Automatic Confirmation28	, 37, 99
Batch process	17
CASCADE	124
CASCADE Foreign Currencies	218
Claim Adjustment Request	108
Claim Amount97,	98, 104
Claim Amount Premium	53, 169
Claim Check1	09, 165
Claim Deletion	111
Claim Details1	03, 107
Claim Display	105
Claim Increase	110
Claim Modification	105
Claim New	100
Claim Reduction	110
Claim Rejection	110
Claims7, 25, 27, 28, 34, 37	, 39, 97
Clearer and Member ID	20
Clearstream	43, 46
Client Reference	79, 166
Client Reference Check	82
Client Reference Deletion	81
Client Reference New	74
Client Reference Processing	80
Client Reference Rejection	82
Client Reference View	81
CMSI	45, 104
Collateral1	13, 122
Collateral Groups	24, 43
Collateral Pool	22, 166
Collateral Release	53
Collateral Status	113
Collateral View	117
Compulsory Claim Decrease	47
Context Menus	12
Contract Conclusion7, 25, 27, 38,	87, 165
Contract Conclusion Check	
Contract Conclusion Confirmation	94
Contract Conclusion Modification	94
Contract Conclusion Rejection	95
Contract Conclusion View	90
Contract Definition	87, 165
Contract Definition View	64
Credit Instruction	124
Credit Instruction Check	135
Credit Instruction Deletion	136
Credit Instruction Modification	135
Credit Instruction Rejection	136
Credit Instruction View	134
Debit Instruction	137

Eligibility aboal	62
Eligibility of collectors	
Eligibility of conderal	
Engible Securities43	, 00, 100
Eurex	41, 40
Exposure Request	122 141
File I ransfer	133, 141
Four-eyes Principle	27, 34
Full View	
GC Pooling4, 20, 42, 45, 53, 57	, 58, 104
Generated Reports	142, 143
Generated Reports Deletion	147
Generated Reports Generation	
Generated Reports Print	148, 167
Generated Reports Save	147
Historical Database	31
IBM Websphere MQ	.133, 141
Initial notification of a Global Amount	29
Instructions	38, 122
Logon	6
Logon window	15
Manual Allocation/Release	50, 57
Manual Allocation/Release Check	59
Manual Allocation/Release Deletion	60
Manual Allocation/Release Rejection	60
Manual Allocation/Release View	59
Manual Confirmation2	28, 30, 40
Mark to market	24, 47
Microfiches	145
MT527	
NCB17, 29, 40	, 45, 100
Opening Hours	17
Over-collateralisation after Simulation	54, 55
Password	
Pledge	4. 18
Processing Information	
Reciprocal Confirmation	
Reduction of a Global Amount	31, 32, 40
Depart Definition	
Report Definition Display	145
Report Definition Display Report Definition Display	145
Report Definition Display	145 184, 188 76
Report Definition Display	145 184, 188 76 62
Report Definition Display	145 184, 188 76 62
Report Definition Display	145 184, 188 76 62 16 
Report Definition Display	145 184, 188 76 62 16 76 7 84
Report Definition Report Definition Display	145 184, 188 76 62 16 76 7, 84 128
Report Definition Display	145 184, 188 76 62 16 76 7, 84 128 24
Report Definition Display	145 184, 188 76 62 16 76 7, 84 128 24 24
Report Definition Report Definition Display	145 184, 188 76 
Report Definition Report Definition Display	145 184, 188 76 76 76 7, 84 24 24 55 55 141 176
Report Definition Report Definition Display	145 184, 188 76 76 76 7, 84 78 74 
Report Definition Report Definition Display	
Report Definition Report Definition Display	$ \begin{array}{c} \begin{array}{c} 145\\ 184, 188\\76\\76\\76\\7, 84\\24\\55\\55\\ 141, 176\\9\\55\\ 141, 176\\9\\55\\ 141, 176\\9\\55\\55\\55\\$
Report Definition Report Definition Display	145 184, 188 76 76 7, 84 7, 84 7, 84 7, 84 