



ECC CPMI-IOSCO Disclosure IV/2021



disclosure item 4. 4000 Credit Risk (Principle 4) 4.1 Total value of default resources (excluding initial and retained variation margin), As at quarter end split by clearing service if default funds are segregated by clearing service Mn. EURO (Bonds at collateral value) 4101 a) pre-funded 2,196.1 4103 i. own capital that forms part of the default waterfall (used before member 23.0 contributions) 4102 ii. aggregate participant contributions 2,131.7 4108 (aggregate participant contributions requirement, to be covered on the next (2115.6)iii. other 41.4 4104 b) committed 3,266.1 4105 i. own/parent funds that are committed to address a participant default 23.0 4106 ii. aggregate participant commitments to address an initial participant default 1,621.6 4107 iii. aggregate participant commitments to replenish the default fund to deal with 1,621.6 a subsequent participant default (see [1]) iv. other 0.0 4.2 4201 Hypothetical Capital/K_{CCP} (SA-CCR for derivatives based; Euro) 0.0 4.3 Value of pre-funded default resources (excluding initial and retained variation As at quarter end margin) Mn. EURO 4301 a) total Cash 2,013.7 4302 i. deposited at a central bank of issue of the currency [2] 4303 ii. Cash deposited at other central banks [2] 4304 iii. Secured cash at commercial banks (including reverse repo) [2] 4305 iv. Unsecured cash deposited at commercial banks [2] b) Bonds at market value w/o haircut 4306 i. Agency 0.0 4307 Sovereign Government Bonds - domestic 6.0 4308 iii. Sovereign Government Bonds - foreign 72.6 4309 iv. State / Provincial / Municipal - domestic 12.0 4310 State / Provincial / Municipal - foreign 0.0 4311 vi. Supranational Agency 21.4 4312 vii. other Bonds 1.9 c) Bonds at collateral value (post haircut) 4313 Agency 0.0 4314 Sovereign Government Bonds - domestic 5.7 4315 iii. Sovereign Government Bonds - foreign 68.7 4316 iv. State / Provincial / Municipal - domestic 11.6 4317 v. State / Provincial / Municipal - foreign 0.0 4318 vi. Supranational Agency 20.9 4319 vii. other Bonds 1.4 d) other [3] 4.4 As at quarter end 4401 a) State whether the CCP is subject to a minimum "Cover 1" or "Cover 2" Cover 2 requirement in relation to total pre-funded default resources 4402 b) assumed close out period (days) 2 c) the estimated largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any single participant and its affiliates (including previous 12 months transactions cleared for indirect participants) in extreme but plausible market conditions? Mn. EURO 4403 i. maximum of daily values 1,769.3 4404 average over daily values 574.5 4405 iii. number of days where stress loss exeeded DFW 0 4406 iv. amount of excess of stress loss over DFW, day 1 n/a 4407 amount of excess of stress loss over DFW, day 2 n/a 4408 amount of excess of stress loss over DFW, day 3 n/a 4408 amount of excess of stress loss over DFW, day 3 n/a



CIIVII	0300 1	on counterparties	
	4409	amount of excess of stress loss over DFW, day 4	n/a
	4410	amount of excess of stress loss over DFW, day 5	n/a
	4411	amount of excess of stress loss over DFW, day 6	n/a
	4412	amount of excess of stress loss over DFW, day 7	n/a
	4413	amount of excess of stress loss over DFW, day 8	n/a
	4414	amount of excess of stress loss over DFW, day 9	n/a
	4415	amount of excess of stress loss over DFW, day 10	n/a
		d) what was the actual largest aggregate credit exposure (in excess of initial margin)	Mn. EURO
		to any single participants and their affiliates	[4]
	4416	j. maximum of daily values	n/a
	4417	ii. average over daily values	n/a
		e) the estimated largest aggregate stress loss (in excess of initial margin) that would	·
		be caused by the default of any two participant and its affiliates (including	
		transactions cleared for indirect participants) in extreme but plausible market	previous 12 months
		conditions?	Mn. EURO
	4418	i. maximum of daily values	1,855.2
	4419	ii. average over daily values	779.8
	4420	iii. number of days where stress loss exeeded DFW	0
	4421	iv. amount of excess of stress loss over DFW, day 1	0
	4422	amount of excess of stress loss over DFW, day 2	n/a
	4423	amount of excess of stress loss over DFW, day 3	n/a
	4424	amount of excess of stress loss over DFW, day 4	n/a
	4425	amount of excess of stress loss over DFW, day 5	n/a
	4426	amount of excess of stress loss over DFW, day 6	n/a
	4427	amount of excess of stress loss over DFW, day 7	n/a
	4428	amount of excess of stress loss over DFW, day 8	n/a
	4429	amount of excess of stress loss over DFW, day 9	n/a
	4430	amount of excess of stress loss over DFW, day 10	n/a
		f) what was the actual largest aggregate credit exposure (in excess of initial margin)	
		to any two participants and their affiliates	[4]
	4431	i. maximum of daily values	0.0
	4432	ii. average over daily values	
	1752	ii. average over daily values	0.0
5.			0.0
5.	5000	Collateral (Principle 5)	0.0
5. 5.1		Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	
	5000	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collateral	
5.1	5000 5101	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and	
5.1	5000 5101	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview
5.1	5000 5101	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and	eral-management/overview
5.1 5.2	5000 5101	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate	eral-management/overview eral-management/overview
5.1 5.2	5000 5101 5201	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting	eral-management/overview eral-management/overview previous 12 months
5.1 5.2	5000 5101 5201 5301	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts	eral-management/overview eral-management/overview previous 12 months 99,9
5.1 5.2	5000 5101 5201 5301 5302	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview eral-management/overview previous 12 months 99,9 3
5.1 5.2	5000 5101 5201 5301 5302 5303 5304	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate. Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate. Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts	eral-management/overview eral-management/overview previous 12 months 99,9 3 255
5.15.25.36.	5000 5101 5201 5301 5302 5303 5304	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview eral-management/overview previous 12 months 99,9 3 255
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6)	eral-management/overview eral-management/overview previous 12 months 99,9 3 255 0
5.15.25.36.	5000 5101 5201 5301 5302 5303 5304	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate. Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate. Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts	eral-management/overview eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation	eral-management/overview eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House	eral-management/overview eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net?	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross
5.15.25.36.<i>Initial</i>	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation	eral-management/overview previous 12 months 99,9 3 255 0
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net?	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end Mn. EURO [6]
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103 6104	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House Cash	eral-management/overview previous 12 months 99,9 3 255 0
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103 6104	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House Cash total Cash	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end Mn. EURO 1,879.8 0.0
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103 6104	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House Cash total Cash deposited at a central bank of issue of the currency	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end Mn. EURO [6] 3,526.9 [2]
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103 6104	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House Cash total Cash deposited at a central bank of issue of the currency Cash deposited at other central banks	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end Mn. EURO [6] 3,526.9 [2]
5.1 5.2 5.3 6. <i>Initial</i> 6.1	5000 5101 5201 5301 5302 5303 5304 6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204	Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied http://www.ecc.de/ecc-en/risk-management/collate Collateral Backtesting i. confidence interval targeted for haircuts ii. assumed holding/liquidation period for the assets iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6) Initial Margin Requirement by type of segregation a) House b) non-segregated c) segregated clients [5] Initial Margin Requirement for indirect participants: gross or net? Initial margin received by type of segregation a) House Cash total Cash deposited at a central bank of issue of the currency Cash deposited at other central banks Secured cash at commercial banks (including reverse repo)	eral-management/overview previous 12 months 99,9 3 255 0 As at quarter end Mn. EURO 1,879.8 0.0 37,323.4 Gross As at quarter end Mn. EURO [6] 3,526.9 [2] [2] [2]

6.3



6206	Sovereign Government Bonds - domestic	3.5
6207	Sovereign Government Bonds - foreign	239.9
6208	Agency	5.2
6209	Supranational Agency	0.0
6210	State / Provincial / Municipal - domestic	55.1
6211	State / Provincial / Municipal - foreign	0.0
6212	other Bonds	31.1
	Bonds (collateral value - post haircuts)	
6213	Sovereign Government Bonds - domestic	3.3
6214	Sovereign Government Bonds - foreign	229.4
6215	Agency	5.0
6216	Supranational Agency	0.0
6217	State / Provincial / Municipal - domestic	54.0
6218	State / Provincial / Municipal - foreign	0.0
6219	other Bonds	30.0
0213	b) non-segregated	30.0
	Cash	
6220	total Cash	0.0
6221	deposited at a central bank of issue of the currency	[2]
6222	Cash deposited at other central banks	[2]
6223	Secured cash at commercial banks (including reverse repo)	[2]
6224	Unsecured cash deposited at commercial banks	[2]
0224	Bonds (market value - w/o haircuts)	[2]
6225	Sovereign Government Bonds - domestic	0.0
6226	Sovereign Government Bonds - foreign	0.0
6227	Agency	0.0
6228	Supranational Agency	0.0
6229	State / Provincial / Municipal - domestic	0.0
6230	State / Provincial / Municipal -foreign	0.0
6231	other Bonds	0.0
6222	Bonds (collateral value - post haircuts)	0.0
6232	Sovereign Government Bonds - domestic	0.0
6233	Sovereign Government Bonds - foreign	0.0
6234	Agency	0.0
6235	Supranational Agency	0.0
6236	State / Provincial / Municipal - domestic	0.0
6237	State / Provincial / Municipal - foreign	0.0
6238	other Bonds	0.0
	c) segregated clients [5]	
	Cash	[6]
6239	total Cash	37,052.4
6240	deposited at a central bank of issue of the currency	[2]
6241	Cash deposited at other central banks	[2]
6242	Secured cash at commercial banks (including reverse repo)	[2]
6243	Unsecured cash deposited at commercial banks	[2]
	Bonds (market value - w/o haircuts)	
6244	Sovereign Government Bonds - domestic	127.8
6245	Sovereign Government Bonds - foreign	813.8
6246	Agency	142.8
6247	Supranational Agency	36.9
6248	State / Provincial / Municipal - domestic	41.1
6249	State / Provincial / Municipal - foreign	0.0
6250	other Bonds	18.9
	Bonds (collateral value - post haircuts)	0.0
6251	Sovereign Government Bonds - domestic	124.6
6252	Sovereign Government Bonds - foreign	784.4
6253	Agency	139.7
6254	Supranational Agency	35.5
6255	State / Provincial / Municipal - domestic	40.3
6256	State / Provincial / Municipal - foreign	0.0
6257	other Bonds	16.2
6301	Initial margin rates on individual contracts, where the CCP sets such rates	[7]
		1

European Commodity Clearing AG CPMI-IOSCO Disclosure for Central Counterparties



CPIVII	-10300	Disclosure for Central Counterparties	
6.4	I	Type of initial margin model used and key model design parameters	
0	6401	Single Tail Confidence Level	99,0
	6402	Look Back Period	1 Year (250 Trading Days)
	6403	Weighting on historical data	Exponential Weighting
	0403	Weighting on historical autu	with Lambda = 0.99
	6404	Close Out Periods	2 days
	6405	Rates and Credits	2 days
	0403	http://www.ecc.de/ecc-en/risk-man	agement/reports and files
	6406	Update Frequency	Daily
	0400	opulie requestly	Dany
6.5		Results of back-testing of initial margin (daily basis)	prev. 12 months
0.5		Reported are the aggregate results counting outliers of IM calculation at the level of	prev. 12 months
	6501	each Non-Clearing Member at ECC. a) Number of days where IM fell below mark-to-market	45
	6502	b) Number of observations where IM fell below mark-to-market	351
	6503		99.5%
	6504	· ·	
		d) Specify if measured intraday/continuously or only once a day.	continuously
	6505	e) If once a day, specify at what time of day.	n/a Mn. EURO
	CEOC	f)	
	6506	i. breaches of initial margin: peak uncovered exposure	722.7
	6507	ii. breaches of initial margin: average uncovered exposure [8]	11.5
	· 6 //		
	gin Calls	1	
6.6	CC01		age over quarter; Mn. EURO
	6601	Average total variation margin paid to the CCP by participants each business day.	981.5
c 7		Mayira	Sugar sugartes a Mar. FUDO
6.7	6704		um over quarter; Mn. EURO
	6701	Maximum total variation margin paid to the CCP on any given business day over the	4,723.1
		period.	
6.8			um over quarter; Mn. EURO
	6801	Maximum aggregate initial margin call on any given business day over the period.	11,795.0
7.		Liquidity Risk (Principle 7)	
7.1	7101	State whether the clearing service maintains sufficient liquid resources to 'Cover 1'	Cover 2
		Size and composition of qualifying liquid resources for each clearing service, for each	
		relevant currency	Mn. EURO
		a) Cash deposited at a central bank of issue of the currency concerned	As at quarter end
	7102	i. EUR	42,428.1
	7109	ii. GBP	0.0
	7128	iii. JPY	0.0
	7135	iv. NOK	0.0
	7116	v. USD	0.0
		b) Cash deposited at other central banks	As at quarter end
	7103	i. EUR	0.0
	7110	ii. GBP	0.0
	7110	iii. JPY	0.0
	7136	iv. NOK	0.0
	7117	v. USD	0.0
	/11/	c) Secured cash deposited at commercial banks (including reverse repo)	
	7104	i. EUR	As at quarter end 0.0
	7111	ii. GBP	0.0
	7130	iii. JPY	0.0
	7137	iv. NOK	0.0
	7118	v. USD	0.0
		tan time en ancienta de la calenta de la cal	
		d) Unsecured cash deposited at commercial banks	
	7105	i. EUR	3.1
	7112	i. EUR ii. GBP	3.1 21.4
	7112 7131	i. EUR ii. GBP iii. JPY	
	7112	i. EUR ii. GBP	21.4
	7112 7131 7138 7119	i. EUR ii. GBP iii. JPY	21.4 0.1
	7112 7131 7138	i. EUR ii. GBP iii. JPY iv. NOK v. USD vi. PLN	21.4 0.1 21.2
	7112 7131 7138 7119	i. EUR ii. GBP iii. JPY iv. NOK v. USD	21.4 0.1 21.2 0.3
	7112 7131 7138 7119	i. EUR ii. GBP iii. JPY iv. NOK v. USD vi. PLN	21.4 0.1 21.2 0.3 0.0



C1 1 V 11	10300 1	on selection control parties	
	7106	i. EUR	0.0
	7113	ii. GBP	0.0
	7132	iii. JPY	0.0
	7139	iv. NOK	0.0
	7120	v. USD	0.0
		f) unsecured committed lines of credit which the CCP may draw without providing	As at quarter end
	7107	collateral/security i. EUR	110.0
	7114	ii. GBP	0.0
	7133	iii. JPY	0.0
	7140	iv. NOK	0.0
	7121	v. USD	0.0
	7121	g) highly marketable collateral held in custody and investments that are readily	As at quarter end
		available and convertible into cash with prearranged and highly reliable funding	, is at quarter end
		arrangements even in extreme but plausible market conditions	
		arrangements even in extreme sat plausible market contations	[9]
	7108	i. EUR	113.9
	7115	ii. GBP	0.0
	7134	iii. JPY	0.0
	7141	iv. NOK	0.0
	7122	v. USD	0.0
		h) other	
		i. EUR	0.0
		ii. GBP	0.0
		iii. JPY	0.0
		iv. NOK	0.0
		v. USD	0.0
		i) State whether the CCP has routine access to central bank liquidity or facilities.	As at quarter end
	7123	i. EUR	Yes - Intraday facility
	7124	ii. GBP	No
	7126	iii. JPY	No
	7127	iv. NOK	No
	7125	v. USD	No
7.2	7201	Supplementary Liquidity over those from 7.1	n/a
7.3	, 201	Largest same-day payment obligation in total that would be caused by the default of	.,, a
		any single participant and its affiliates in extreme but plausible market conditions?	previous quarter
			Mn. EURO
	7301	i. maximum estimated amount	12,793.3
	7302	ii. number of days where estimated payment exceeded liquidity	,
		iii. amount of excess on each day:	
	7303	amount of exess of payment over lig., day 1	n/a
	7304	amount of exess of payment over liq., day 2	n/a
	7305	amount of exess of payment over liq., day 3	n/a
	7306	amount of exess of payment over liq., day 4	n/a
	7307	amount of exess of payment over liq., day 5	n/a
	7308	amount of exess of payment over liq., day 6	n/a
	7309	amount of exess of payment over liq., day 7	n/a
	7310	amount of exess of payment over liq., day 8	n/a
	7311	amount of exess of payment over liq., day 9	n/a
	7312	amount of exess of payment over liq., day 10	n/a
	7313	iv. actual largest payment obligation to a single participant over the past 12	n/a
		months	
12.	12101	Exchange of Value Settlement Systems (Principle 12)	
12.1	12101	Percentage of settlements by value effected using a DvP, DvD or PvP settlement	n/a
12.2	12201	Percentage of settlements by volume effected using a DvP, DvD or PvP settlement	n/a
		mechanism	ŕ
12	<u> </u>	Default Bules and Brosedures (Brinsinle 12)	
13 13.1	1	Default Rules and Procedures (Principle 13) Quantitative information related to past defaults	
10.1	13101	a) amount of loss vs. amount of margin	n/a
	13102		n/a
	•	· ·	, -



C1 1 1 11	.0500 .	discussive for certain counterparties	
	13103	c) proportion of client positions closed-out/ported	n/a
		0 11 10 1111 (0 1 1 1 44)	
14.	1	Segregation and Portability (Principle 14) Total client positions (Open Interest) as a share of notional values, by type of	T
14.1			[6]
		segregation a) basis: OI short side	[0]
	14101	i. HOUSE	< 5%
	14101	ii. ISA	< 5%
	14103	iii. LSOC/GOS	92%
	14104	iv. SOS	< 5%
		b) basis: OI long side	
	14105	i. HOUSE	< 5%
	14106	ii. ISA	< 5%
	14107	iii. LSOC/GOS	90%
	14108	iv. SOS	< 5%
15.	<u> </u>	General Business Risk (Prinicple 15)	
		Central Business triak (1 minopie 15)	Mn. EURO
15.1	15101	a) value of liquid net assets funded by equity (EMIR capital)	131.9
	15102	b) six months of current operating expenses	29.2
15.2		Financial disclosures	[10]
	15201	a) total revenue	135.0
	15202	b) total expenditure	80.8
	15203	c) profits	54.2
	15204	d) total assets	7,866.1
	15205	e) total liabilities	7,866.1
	15206	f) Explain if collateral posted by clearing participants is held on or off the CCP's	n/a
		balance sheet	
15.3		Income breakdowns	
13.3	15301	a) percentage of income from clearing fees	100%
	15302	b) percentage of income from reinvestment of assests provided by clearing	0%
	13302	participants	3,5
16.	T	Custody and Investment Risks (Principle 16)	As at superton and
			As at quarter end Mn. EURO
16.1	16101	Total Cash received by the CCP from participants	42,592.5
10.1		Total Cash received by the CCP from participants: Default Fund contributions	2,013.7
	16103	Total Cash received by the CCP from participants: Detail Margins	40,578.8
16.2	10103	Investment of Cash: Deposits	40,578.8
10.2	16201	a) deposits at central banks of issue of the currency	100%
	16202	b) deposits at other central banks	0%
	16203	c) secured deposits at commercial banks	0%
	16204	d) unsecured deposits at commercial banks	0%
	16205	e) money market funds	0%
	16206	f) other	0%
	16207	g) Cash - EUR	100%
	16208	h) Cash - GBP	0%
	16209	i) Cash - USD	0%
	16210	j) weighted average maturity of deposits and funds (days)	<1
		Investment of Cash: Securities	_
	16211	a) domestic sovereign government bonds	0%
	16212	b) foreign sovereign government bonds	0%
	16213	c) agency bonds	0%
	16214	d) state/ provincial / municipal bonds	0%
	16215	e) other instruments	0%
	16216	f) percentage split by currency	0%
	16217	g) percentage split by currency	0%
	16218	h) percentage split by currency	0%
	16219	i) weighted average maturity of these securities	0
		Investment of Cash: Investment Risk	
	16220	VaR(99%) of total investment portfolio	n/a
	16221	Limit for Investment Counterparty	individual limits, see [11]
	,		



16.3 16301 Investment of Cash: Rehypothetication of Cash (ECC does not use the instrument of rehypothetication of cash for investment) 17.2 17101 17101	Ci ivii	.0500 .	disclosure for Central Counterparties	
IECC does not use the instrument of rehypothetication of cash for investment) IT.		16222	Number of investment limit breaches (see [11])	19
17.1 17101 Operational availability targets for the core systems involved in clearing 999 17.2 17201 Achieved availability of the core systems, previous twelve months >999 17.3 17301 Total number of failures affecting the core systems, previous twelve months n/ 17.4 17401 Recovery time objectives (in hours) n/ 18. Access and Participation Requirements (Principle 18) 18.1 Number of clearing members by type and origin as at quarter en 18101 a) DCM domestic a) DCM domestic 18103 c) GCM domestic c) GCM domestic 18104 d) GCM foreign 2 18105 e) DCP domestic 1 18106 f) DCP foreign 4 Percentage of Ol held by Top5 CM: daily average over quarter 779 18201 a) basis: long side 779 18202 b) basis: short side 799 Percentage of Ol held by Top5 CM: peak EoD over quarter 799 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 1844 18401 Percentage of Inpost CM contributi	16.3	16301		no
17.1 17101 Operational availability targets for the core systems involved in clearing 999 17.2 17201 Achieved availability of the core systems, previous twelve months >999 17.3 17301 Total number of failures affecting the core systems, previous twelve months n/ 17.4 17401 Recovery time objectives (in hours) n/ 18. Access and Participation Requirements (Principle 18) 18.1 Number of clearing members by type and origin as at quarter en 18101 a) DCM domestic a) DCM domestic 18103 c) GCM domestic c) GCM domestic 18104 d) GCM foreign 2 18105 e) DCP domestic 1 18106 f) DCP foreign 4 Percentage of Ol held by Top5 CM: daily average over quarter 779 18201 a) basis: long side 779 18202 b) basis: short side 799 Percentage of Ol held by Top5 CM: peak EoD over quarter 799 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 1844 18401 Percentage of Inpost CM contributi	17.		Operational Risk (Principle 17)	
17.2 17201 Achieved availability of the core systems, previous twelve months 17301 17301 1701 number of failures affecting the core systems, previous twelve months 17302 17401 Recovery time objectives (in hours) 18.		17101		99%
17.3 17301 17301 1701 Inumber of failures affecting the core systems, previous twelve months 17401 17401 17401 17401 Recovery time objectives (in hours) 18.	17.2			>99%
17.4 Total duration of failures affecting the core systems, previous twelve months Recovery time objectives (in hours) 18.	17.3	17301		n/a
17.4 17401 Recovery time objectives (in hours) 18.				n/a
18.1	17.4	17401	= ' ' ' '	2
18101 a) DCM domestic b) DCM foreign c) GCM domestic c) GCM domestic d) GCM foreign d) GCM for	18.		Access and Participation Requirements (Principle 18)	
18102 b) DCM foreign C GCM domestic C GCM domestic C GCM domestic C GCM domestic C GCM foreign	18.1			as at quarter end
18103 c) GCM domestic 18104 d) GCM foreign 2 18105 e) DCP domestic 1 18106 f) DCP foreign 4 Percentage of OI held by Top5 CM: daily average over quarter 779 18201 a) basis: long side 779 18202 b) basis: short side 779 Percentage of OI held by Top5 CM: peak EoD over quarter 799 18203 c) basis: long side 799 18204 d) basis: short side 799 18205 Percentage of IM posted by Top5 CMs 799 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 18.4 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 61 19101 a) Number of known clients 61 19102 b) Number of CM clearing for clients 2 19103 c) Client OI attributale to Top5 CM 789			1 '	1
18104 d) GCM foreign 2 18105 e) DCP domestic 1 18106 f) DCP foreign 4 18.2 Percentage of OI held by Top5 CM: daily average over quarter 779 18201 a) basis: long side 779 18202 b) basis: short side 799 18203 c) basis: long side 799 18204 d) basis: short side 799 18.3 Percentage of IM posted by Top5 CMs 779 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 779 18.4 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 61 19101 a) Number of known clients 61 19102 b) Number of CM clearing for clients 2 19103 c) Client OI attributale to Top5 CM 789			1 · ·	3
18105 e) DCP domestic 13 18106 f) DCP foreign 44 18201 a) basis: long side 779 18202 b) basis: short side 779 Percentage of OI held by Top5 CM: peak EoD over quarter 799 18203 c) basis: long side 799 18204 d) basis: short side 799 18.3 Percentage of IM posted by Top5 CMs 779 18301 a) peak EoD over quarter 779 18401 percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 61 19102 b) Number of known clients 61 19103 c) Client OI attributale to Top5 CM 789			1 '	5
18.2 Percentage of OI held by Top5 CM: daily average over quarter 18.2			,	21
18.2 Percentage of OI held by Top5 CM: daily average over quarter 18201 a) basis: long side 5779 18202 b) basis: short side 7799 18203 c) basis: long side 18204 d) basis: short side 7999 18.3 Percentage of IM posted by Top5 CMs 18301 a) peak EoD over quarter 18302 b) daily average over quarter 18401 Percentage of Top5 CM contributions to CF 18401 Percentage of Top5 CM contributions to CF 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 2010 19103 c) Client OI attributale to Top5 CM			l '	18
18201 a) basis: long side 7779 18202 b) basis: short side 7779 Percentage of OI held by Top5 CM: peak EoD over quarter 18203 c) basis: long side 7799 18204 d) basis: short side 7799 18301 a) peak EoD over quarter 7799 18302 b) daily average over quarter 7799 18401 Percentage of Top5 CM contributions to CF 7099 18.4 18401 Percentage of Top5 CM contributions to CF 7099 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 619 19101 a) Number of known clients 6199 19102 b) Number of CM clearing for clients 2299 19103 c) Client OI attributale to Top5 CM 7899		18106	, ,	49
18202 b) basis: short side Percentage of OI held by Top5 CM: peak EoD over quarter 18203 c) basis: long side 18204 d) basis: short side Percentage of IM posted by Top5 CMs 18301 a) peak EoD over quarter 18302 b) daily average over quarter 18401 Percentage of Top5 CM contributions to CF 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM	18.2			
Percentage of OI held by Top5 CM: peak EoD over quarter 18203 c) basis: long side 18204 d) basis: short side Percentage of IM posted by Top5 CMs 18301 a) peak EoD over quarter 18302 b) daily average over quarter 18401 Percentage of Top5 CM contributions to CF 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 799 799 799 799 799 799 799 7			, ,	77%
18203 c) basis: long side 18204 d) basis: short side Percentage of IM posted by Top5 CMs 18301 a) peak EoD over quarter 18302 b) daily average over quarter 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 789		18202	1 '	77%
18.3 d d) basis: short side Percentage of IM posted by Top5 CMs 18.3 a) peak EoD over quarter 779 18.4 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 219103 c) Client OI attributale to Top5 CM 789				
18.3 Percentage of IM posted by Top5 CMs 18301 a) peak EoD over quarter 779 18302 b) daily average over quarter 759 18.4 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 619 19102 b) Number of CM clearing for clients 2 19103 c) Client OI attributale to Top5 CM 789			, -	79%
18301 a) peak EoD over quarter 18302 b) daily average over quarter 18.4 18401 Percentage of Top5 CM contributions to CF Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM		18204	1 '	79%
18302 b) daily average over quarter 18.4 18401 Percentage of Top5 CM contributions to CF 709 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 789	18.3	40004		770/
18.4 18401 Percentage of Top5 CM contributions to CF 19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 709 610 620 789			· · ·	
19. Tiered Participation Arrangements (Principle 19) 19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 789			1 ,	
19.1 Measures of concentration of client clearing 19101 a) Number of known clients 19102 b) Number of CM clearing for clients 19103 c) Client OI attributale to Top5 CM 610 789	18.4	18401	Percentage of Top5 CM contributions to CF	70%
19101 a) Number of known clients 61: 19102 b) Number of CM clearing for clients 2: 19103 c) Client OI attributale to Top5 CM 789				
19102 b) Number of CM clearing for clients 2 19103 c) Client OI attributale to Top5 CM 789	19.1		<u> </u>	
19103 c) Client OI attributale to Top5 CM 789			,	618
· ·			, · · · · · · · · · · · · · · · · · · ·	26
19104 d) Client OI attributale to Top5 CM 799				78%
		19104	d) Client OI attributale to Top5 CM	79%

Comments and Explanations

- [1] According to the Clearing Conditions, ECC may request the non-defaulting Clearing Members to replenish their default fund contributions within 10 days after a Clearing Member has been set into default and the default fund has been fully or partially utilized. The amount reported here as replenishment assumes the default of the largest Clearing Member. It is calculated as the total Default Fund Contributions of all Clearing Members less the conribution of the largest Clearingmember.
- [2] ECC maintains cash collateral provided in EURO for initial margin requirements and the default fund contributions at first at its TARGET2 account. ECC does not separate its holdings of cash and cash investments between default fund contributions and margin contributions.
- [3] According to ECC's collateral policy, ECC does not accept "other types" of collteral for the default fund. See also https://www.ecc.de/ecc-en/risk-management/collateral-management
- [4] ECC does not invest funds with the top five Clearingmembers (according to initial margin requirement) or its affiliates. Therefore, the credit exposures with clients and participants are determined by the clearing service, but not influenced by other creditor relationsships to the Clearing Members.
- [5] Under the term "Segreated Clients", ISA, OSA and SOS segregated accounts are comprised.
- [6] Values are provided in ranges for data protection reasons.
- [7] All margin calculations are based on a general modelling approach either for derivatives or for spot products. The statistical models and all relevant changes to them are part of a regulatory oversight process. They are based on conservative assumptions which are validated once a year by external parties. Information concerning the margining approach can be found under:

 https://www.ecc.de/ecc-en/risk-management/margining
- [8] Days without uncovered exposure are not included in the calculation of the average value.
- [9] Based on ECCs obligation to maintain liquidity for the default of the largest two Clearing Members, reported here are highly secure and liquid securities provided by all Clearing Members as contribution to the Clearing Funds as well as securities provided by the top two Clearing Members as collateral for their initial margin requirement.
- [10] Values taken from the latest audited annual financial statement. See also https://www.ecc.de/ecc-en/about-ecc/company/reports
- [11] ECC sets individual limits for investment counterparties with regard to types of investment as well as overall limits for the individual counterparty and the counterparties group. These limits are based on an internal risk assessment using different external data sources including external rating agencies. Information refers to group external investment counterparties.