

European Commodity Clearing AG

CPMI-IOSCO Disclosure for Central Counterparties III/2018



	Index	disclosure item	date, type, value
4.	4000	Credit Risk (Principle 4)	
		Total value of default resources (excluding initial and retained variation	As at quarter end
		margin), split by clearing service if default funds are segregated by clearing	Mn. EURO
4.1		service	(Bonds at collateral value)
	4101	a) pre-funded	914.9
	1101	own capital that forms part of the default waterfall (used before	51115
	4103		11.5
	4102		903.4
	_	iii. other	0.0
	4104	b) committed	n/a
	4105		
		default	11.5
	4106	ii. aggregate participant commitments to address an initial participant	
		default	515.6
	4107	iii. aggregate participant commitments to replenish the default fund to	
		deal with a subsequent participant default. [1]	515.6
		iv. other	n/a
4.2	4201	КССР	924.869.0
		Value of pre-funded default resources (excluding initial and retained	As at quarter end
4.3		variation margin)	Mn. EURO
	4301	a) total Cash	741.8
	4302	 deposited at a central bank of issue of the currency 	[2]
	4303	ii. Cash deposited at other central banks	[2]
	4304	, o i ,	[2]
	4305		[2]
		 b) Bonds at market value w/o haircut 	
	4306	5 ,	1.7
	4307	5	49.7
	4308	5	33.6
	4309		61.7
	4310		0.0
	4311		18.6
	4312		5.0
		c) Bonds at collateral value (post haircut)	
	4313	5 ,	1.5
	4314	0	48.0
	4315		31.3 59.5
	4316 4317		0.0
	4317		16.5
	4318		4.4
	4313	d) other	[3]
			[3]
4.4		a) State whether the CCP is subject to a minimum "Cover 1" or "Cover 2"	As at quarter end
	4401		Cover 2
		b) assumed close out period (days)	2
	. 102	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 transactions cleared for indirect participants) in	previous 12 months
		extreme but plausible market conditions?	Mn. EURO
	4403		563.0
	4404		151.5
	4405		C
	4406		n/a
	4407		n/a

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Cr IVII-I	i		
	4408 4409		n/a n/a
	4409		n/a
	4411		n/a
	4412		n/a
	4413		n/a
	4414		n/a
	4415		n/a
		d) what was the actual largest aggregate credit exposure (in excess of initial	
		margin) to any single participants and their affiliates	[4]
	4416	i. 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	previous 12 months
		extreme but plausible market conditions?	Mn. EURO
	4418		690.6
	4419		210.2
	4420		0
	4421	iv. amount of exess of stress loss over DFW, day 1	n/a
	4422	amount of exess of stress loss over DFW, day 2	n/a
	4423	amount of exess of stress loss over DFW, day 3	n/a
	4424	amount of exess of stress loss over DFW, day 4	n/a
	4425	amount of exess of stress loss over DFW, day 5	n/a
	4426	amount of exess of stress loss over DFW, day 6	n/a
	4427	amount of exess of stress loss over DFW, day 7	n/a
	4428	, ,	n/a
	4429		n/a
	4430	, ,	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	,	n/a
	4432		n/a
<u>5.</u> 5.1		Collateral (Principle 5) Assets eligible as initial margin, and the respective haircuts applied	1
5.1	5101	http://www.ecc.de/ecc-en/risk-management/collateral-management	l t/overview
5.2	5201	Assets eligible for pre-funded participant contributions to the default	
5.2	5201	resources, and the respective haircuts applied	
		http://www.ecc.de/ecc-en/risk-management/collateral-management	t/overview
5.3		Collateral Backtesting	previous 12 months
	5301		99
	5302		3 days
	5303		255 days
	5304	iv. number of days during look-back where fall in value exceeded	0
		haircuts	
6.		Margin (Principle 6)	
Initial I	Margin		
			As at quarter end
6.1		Initial Margin Requirement by type of segregation	Mn. EURO
	6101	,	<2% overall
	6102	,	4.154.7
	6103	,	> 2%/ < 5% overall
	6104	Initial Margin Requirement for indirect participants: gross or net?	net
			As at quarter end
6.2		Initial margin received by type of corregation	Mn. EURO
0.2		Initial margin received by type of segregation a) House	[6]
		Cash	[0]
	6201		< 2% overall
	1 0201		I
22.11.2	2018		

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6202	deposited at a central bank of issue of the currency	[2]
6203 6204	Cash deposited at other central banks Secured cash at commercial banks (including reverse repo)	[2]
6205	Unsecured cash deposited at commercial banks	[2]
0205	Bonds (market value - w/o haircuts)	[4]
6206	Sovereign Government Bonds - domestic	0.0
6207	Sovereign Government Bonds - foreign	0.0
6208	Agency	0.0
6209	Supranational Agency	0.0
6210	State / Provincial / Municipal - domestic	0.0
6211	State / Provincial / Municipal - foreign	0.0
6212	other Bonds	0.0
6212	Bonds (collateral value - post haircuts)	0.0
6213	Sovereign Government Bonds - domestic Sovereign Government Bonds - foreign	0.0 0.0
6214 6215	Agency	0.0
	Supranational Agency	0.0
6216 6217	State / Provincial / Municipal - domestic	0.0
6217	State / Provincial / Municipal - domestic	0.0
6219	other Bonds	0.0
	b) non-segregated	
	Cash	
6220	total Cash	4.114.2
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]
	Bonds (market value - w/o haircuts)	10.2
6225	Sovereign Government Bonds - domestic	19.2
6226 6227	Sovereign Government Bonds - foreign Agency	98.9
6228	Supranational Agency	93.6
6229	State / Provincial / Municipal - domestic	218.3
6230	State / Provincial / Municipal -foreign	0.0
6230	other Bonds	31.1
	Bonds (collateral value - post haircuts)	0.0
6232	Sovereign Government Bonds - domestic	18.3
6233	Sovereign Government Bonds - foreign	0.7
6234	Agency	93.4
6235	Supranational Agency	90.7
6236	State / Provincial / Municipal - domestic	209.1
6237	State / Provincial / Municipal - foreign	0.0
6238	other Bonds	27.2
	c) segregated clients [5] Cash	
6239	total Cash	259.3
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	0.0
6245	Sovereign Government Bonds - foreign	0.0
6246	Agency	0.0
6247	Supranational Agency	0.0
6248	State / Provincial / Municipal - domestic State / Provincial / Municipal - foreign	0.0 0.0
6249 6250	other Bonds	0.0
0230	Bonds (collateral value - post haircuts)	0.0
1 1	()	

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	6251 6252	Sovereign Government Bonds - domestic	0.0
	6253		0.0 0.0
	6254 6255		0.0
	6256		0.0
	6257	other Bonds	0.0
6.3	6301	Initial margin rates on individual contracts, where the CCP sets such rates	[7]
6.4	6404	Type of initial margin model used and key model design parameters	99%
	6401 6402		1 Year (250 Trading Days)
			Exponential Weighting
	6403	Weighting on historical data	with Lambda = 0.99 2 days
	6404	Close Out Periods	2 00 4 5
	6405	Rates and Credits	http://www.ecc.de/ecc-
	6406	Update Frequency	Daily
6.5		Results of back-testing of initial margin Reported are the aggregate results counting outliers of IM calculation at	prev. 12 months, daily basis
		the level of each Non-Clearing Member at ECC.	
	6501 6502		21 177
	6503		99.78%
	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
	6506	 f) i. breaches of initial margin: peak uncovered exposure 	Mn. EURO 216.4
	6506 6507		5.5
Margin	Calls		Average over quarter
6.6		Average total variation margin paid to the CCP	Average over quarter Mn. EURO
	6601	by participants each business day.	103.2
C7			Maximum over quarter
6.7	6701	Maximum total variation margin paid to the CCP on any given business day over the period.	Mn. EURO 811.4
			Maximum over quarter
6.8		Maximum aggregate initial margin call on any given business day over the	Mn. EURO
7.	6801	period. Liquidity Risk (Principle 7)	333.1
7.1	7101	'Cover 1' or 'Cover 2'.	Cover2
		Size and composition of qualifying liquid resources for each clearing service,	
		for each relevant currency a) Cash deposited at a central bank of issue of the currency concerned	Mn. EURO As at quarter end
	7102		4.950.7
	7109		0.0
	7116		0.0
	7103	 b) Cash deposited at other central banks i. EUR 	As at quarter end 0.0
1			010
	7110	ii. GBP	0.0
	7110 7117	iii. USD	0.0
	7117	iii. USDc) Secured cash deposited at commercial banks (including reverse repo)	0.0 As at quarter end
		iii. USDc) Secured cash deposited at commercial banks (including reverse repo)i. EUR	0.0

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	7118	iii. USD d) Unsecured cash deposited at commercial banks	0.0	
	7105	i. EUR	23.0	
	7112	ii. GBP	0.5	
	7119		0.0	
		e) secured committed lines of credit including committed foreign exchange	As at quarter end	
		swaps and committed repos		
	7106	i. EUR	0.0	
	7113		0.0	
	7120		0.0	
		f) unsecured committed lines of credit which the CCP may draw without	As at quarter end	
		providing collateral/security		
	7107		0.0	
	7114		0.0	
	7121		0.0	
		g) highly marketable collateral held in custody and investments that are readily available and convertible into cash with prearranged and highly	As at quarter end	
		reliable funding arrangements even in extreme but plausible market		
		conditions	[0]	
	7100		[9] 170.4	
	7108 7115		0.0	
	7115		0.0	
	/122	h) other	0.0	
		i. EUR	0.0	
		ii. GBP	0.0	
		iii. USD	0.0	
		i) State whether the CCP has routine access to central bank liquidity or	As at quarter end	
		facilities.		
	7123	i. EUR	yes - intraday facility	
	7124	ii. GBP	no	
	7125	iii. USD	no	
7.2	7201	Supplementary Liquidity over those from 7.1	n/a	
7.3		Largest same-day payment obligation in total that would be caused by the		
		default of any single participant and its affiliates in extreme but plausible	previous quarter	
		market conditions?	Mn. EURO	
	7301	i. maximum estimated amount	1.096.9	
	7302		0	
		iii. amount of excess on each day:	,	
	7303		n/a	
	7304		n/a	
	7305		n/a	
	7306		n/a n/a	
	7307 7308		n/a	
	7308		n/a	
	7310		n/a	
	7311		n/a	
	7312		n/a	
	_	actual largest payment obligation to a single participant over the	, -	
	7313		n/a	
12.		Exchange of Value Settlement Systems (Principle 12)	·	
12.1		Percentage of settlements by value effected using a DvP, DvD or PvP		
	12101	settlement	n/a	
12.2		Percentage of settlements by volume effected using a DvP, DvD or PvP		
	12201	settlement mechanism	n/a	

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13	Default Rules and Procedures (Principle 13)	I
13.1	Quantitative information related to past defaults	
13.1	13101 a) amount of loss vs. amount of margin	n/a
	13102 b) amount of other financial resources used to cover losses	n/a
	13103 c) proportion of client positions closed-out/ported	n/a
		.,, .
14. 14.1	Segregation and Portability (Principle 14) Total client positions (Open Interest) as a share of notional values, by typ	
14.1	of segregation	
	a) basis: OI short side	[6]
	14101 i. HOUSE	< 5%
	14101 I. HOUSE 14102 II. ISA	< 5%
	14102 II. ISO 14103 III. LSOC/GOS	85%
	14104 iv. SOS	12%
	b) basis: OI long side	12/0
	14105 i. HOUSE	< 5%
	14106 ii. ISA	< 5%
	14107 iii. LSOC/GOS	84%
	14108 iv. SOS	12%
15.	General Business Risk (Prinicple 15)	
		Mn. EURO
15.1	15101 a) value of liquid net assets funded by equity (EMIR capital)	88.9
45.0	15102 b) six months of current operating expenses	18.2
15.2	Financial disclosures	[10]
	15201 a) total revenue	83.2
	15202 b) total expenditure	42.0
	15203 c) profits	
	15204 d) total assets	2.751.3 2.751.3
	15205 e) total liabilities 15206 f)	
	Explain if collateral posted by clearing participants is held on or off the	All Cash pledged by participants is held on the
	CCP's balance sheet	participantes is nera on the
15.3	Income breakdowns	balance sheet
2010	15301 a) percentage of income from clearing fees	100%
	15302 b) percentage of income from reinvestment of assests provided by cleari	
	participants	
16.	Custody and Investment Risks (Principle 16)	
		As at quarter end
		Mn. EURO
16.1	16101 Total Cash received by the CCP from participants	4.856.5
	16102 Total Cash received by the CCP from participants: Default Fund contributi	
16.2	16103 Total Cash received by the CCP from participants: Initial Margins Investment of Cash: Deposits	4.114.2
10.2	16201 a) deposits at central banks of issue of the currency	100%
	16202 b) deposits at other central banks of issue of the currency	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	

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	1		
	16215		0%
	16216		0%
	16217		0%
	16218		0% 0
	16219	 weighted average maturity of these securities Investment of Cash: Investment Risk 	0
	16220		n/a
	16220		n/a individual limits, see [11]
	16221		3
	16222	Number of million breaches	5
16.3	16301	Investment of Cash: Rehypothetication of Cash	none
10.5	10301	ECC does not use the instrument of rehypothetication of cash for	none
		investment	
17.		Operational Risk (Principle 17)	
17.1	17101	Operational availability targets for the core systems involved in clearing	99.00%
17.2		Achieved availability of the core systems, previous twelve months	99.01%
17.3		Total number of failures affecting the core systems, previous twelve months	
17.15		Total duration of failures affecting the core systems, previous twelve months	
17.4		Recovery time objectives (in hours)	2
17.4	17401		2
18.		Access and Participation Requirements (Principle 18)	
18.1		Number of clearing members by type and origin	as at quarter end
	18101		. 1
	18102		3
	18103		2
	18104		19
	18105		4
	18106		19
18.2		Percentage of OI held by Top5 CM: daily average over quarter	
	18201		78%
	18202		77%
		Percentage of OI held by Top5 CM: peak EoD over quarter	
	18203	c) basis: long side	80%
	18204	d) basis: short side	80%
18.3		Percentage of IM posted by Top5 CMs	
	18301	a) peak EoD over quarter	75%
	18302	b) daily average over quarter	74%
18.4	18401	Percentage of Top5 CM contributions to CF	71%
19.		Tiered Participation Arrangements (Principle 19)	
19.1		Measures of concentraion of client clearing	
	19101	a) Number of known clients	532
	19102	,	21
	19103	,	80%
	19104	d) Client OI attributale to Top5 CM	82%
		l	

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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 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. [2] According to ECC's collateral policy, ECC does not accept "other types" of collteral for the default fund. [3] See also https://www.ecc.de/ecc-en/risk-management/collateral-management

[4] [5]	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. 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
	Days without uncovered exposure are not included in the calculation of the average value.
[8]	
[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
[10]	Values taken from the latest audited annual financial statement. See also https://www.ecc.de/ecc-en/about-ecc/company/reports

ECC sets individual limits for every single investment counterparty with regard to types of investment as well as overall limits for the
 individual counterparty and the counterparties company group. These limits are based on an internal risk assessment using different

