

ECC CPMI-IOSCO Disclosure IV/2019

Date: 10.3.2020 Version: 1.21



	Index	disclosure item	date, type, value
4.		Credit Risk (Principle 4)	
4.1	4404	Total value of default resources (excluding initial and retained variation margin), split by clearing service if default funds are segregated by clearing service	As at quarter end Mn. EURO (Bonds at collateral value)
		a) pre-funded own capital that forms part of the default waterfall (used before member	452.1
	4103 4102		15.0 437.1
	.102	iii. other	0.0
	4104 4105	b) committed i.	658.6
	4106	own/parent funds that are committed to address a participant default ii.	36.8
	4107	aggregate participant commitments to address an initial participant default iii. aggregate participant commitments to replenish the default fund to deal	310.9
		with a subsequent participant default. [1]	310.9
4.2	4204	iv. other KCCP	n/a
4.2	4201	RCCP	3,599,089.0
4.3		Value of pre-funded default resources (excluding initial and retained variation margin)	As at quarter end Mn. EURO
4.5	4301	a) total Cash	390.7
	4302	i. deposited at a central bank of issue of the currency	[2]
	4303	·	[2]
	4304	, ,	[2]
	4305	iv. Unsecured cash deposited at commercial banks b) Bonds at market value w/o haircut	[2]
	4306		0.0
	4307	l	3.0
	4308	iii. Sovereign Government Bonds - foreign	19.7
	4309		9.5
	4310	, , , , , , , , , , , , , , , , , , , ,	0.0
	4311 4312		17.0 1.0
		c) Bonds at collateral value (post haircut)	
	4313		0.0
	4314 4315	l	18.5
	4316		9.0
	4317		0.0
	4318	, ,	15.2
	4319		0.9
		d) other	[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
	4402	b) assumed close out period (days) 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	2
		(including transactions cleared for indirect participants) in extreme but plausible market conditions?	previous 12 months Mn. EURO
	4403		623.9
	4404	l	305.1
	4405	iii. number of days where stress loss exeeded DFW	0
	4406	, ,	n/a
	4407	amount of excess of stress loss over DFW, day 2	n/a
	4408	, ,	n/a
	4408 4409		n/a n/a
	4410		n/a
	4411		n/a



	0300 2	isclosure for central counterparties	
	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	Mn. EURO
		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
	4417	e) the estimated largest aggregate stress loss (in excess of initial margin) that	li/a
		would be caused by the default of any two participant and its affiliates	
		(including transactions cleared for indirect participants) in extreme but	
			previous 12 months
		plausible market conditions?	Mn. EURO
	4418	i. maximum of daily values	702.1
	4419	ii. average over daily values	410.6
	4420	iii. number of days where stress loss exeeded DFW	5
	4421	iv. amount of excess of stress loss over DFW, day 1	-25.0
	4422	amount of excess of stress loss over DFW, day 2	-33.1
	4423	amount of excess of stress loss over DFW, day 3	-22.7
	4424	amount of excess of stress loss over DFW, day 4	-13.2
	4425	amount of excess of stress loss over DFW, day 5	-16.6
	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	n/a
	4432	ii. average over daily values	n/a
5.		Collateral (Principle 5)	
5.1	5101	Assets eligible as initial margin, and the respective haircuts applied	ļ _.
F 2		http://www.ecc.de/ecc-en/risk-management/collateral-management/over	view I
5.2	5201	Assets eligible for pre-funded participant contributions to the default resources,	
		and the respective haircuts applied	I.
5 2		http://www.ecc.de/ecc-en/risk-management/collateral-management/over	
5.3		Collateral Backtesting	previous 12 months
	5301	i. confidence interval targeted for haircuts	
	5000	ii accurred halding/liquidation naviad for the accets	99
	5302	ii. assumed holding/liquidation period for the assets	3 days
	5303	iii. look-back period	3 days 255 days
		iii. look-back period iv.	3 days
	5303 5304	iii. look-back periodiv.number of days during look-back where fall in value exceeded haircuts	3 days 255 days
6.	5303 5304 6000	iii. look-back period iv.	3 days 255 days
6.	5303 5304 6000	iii. look-back periodiv.number of days during look-back where fall in value exceeded haircuts	3 days 255 days 0
Initial I	5303 5304 6000	iii. look-back period iv. number of days during look-back where fall in value exceeded haircuts Margin (Principle 6)	3 days 255 days 0
	5303 5304 6000 Margin	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	As at quarter end Mn. EURO
Initial I	5303 5304 6000 Margin 6101	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	As at quarter end Mn. EURO 375.5
Initial I	5303 5304 6000 Margin 6101 6102	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	As at quarter end Mn. EURO 375.5 0.0
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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]	As at quarter end Mn. EURO 375.5 0.0 2,840.5
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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	As at quarter end Mn. EURO 375.5 0.0
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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]	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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?	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO
Initial I	5303 5304 6000 <i>Margin</i> 6101 6102 6103	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	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104	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	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6]
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104	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	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6] 649.2
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104	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	As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6] 649.2 [2]
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104 6201 6202 6203	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	3 days 255 days 0 As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6] 649.2 [2]
Initial I	6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204	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)	3 days 255 days 0 As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6] 649.2 [2] [2]
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104 6201 6202 6203	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) Unsecured cash deposited at commercial banks	3 days 255 days 0 As at quarter end Mn. EURO 375.5 0.0 2,840.5 gross As at quarter end Mn. EURO [6] 649.2 [2]
Initial I	5303 5304 6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204 6205	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) Unsecured cash deposited at commercial banks Bonds (market value - w/o haircuts)	3 days 255 days 0
Initial I	6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204 6205	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) Unsecured cash deposited at commercial banks Bonds (market value - w/o haircuts) Sovereign Government Bonds - domestic	3 days 255 days 0
Initial I	6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204 6205 6206 6207	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) Unsecured cash deposited at commercial banks Bonds (market value - w/o haircuts) Sovereign Government Bonds - domestic Sovereign Government Bonds - foreign	3 days 255 days 0
Initial I	6000 Margin 6101 6102 6103 6104 6201 6202 6203 6204 6205	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) Unsecured cash deposited at commercial banks Bonds (market value - w/o haircuts) Sovereign Government Bonds - domestic Sovereign Government Bonds - foreign Agency	3 days 255 days 0

6.3

6.4



	·	
6210	State / Provincial / Municipal - domestic	48.3
6211	State / Provincial / Municipal - foreign	0.0
6212	other Bonds	5.2
	Bonds (collateral value - post haircuts)	
6213	Sovereign Government Bonds - domestic	7.0
6214	Sovereign Government Bonds - foreign	2.2
6215	Agency	11.2
6216	l =	0.0
6217	l	44.2
6218	l - , , , , , , , , , , , , , , , , , ,	0.0
6219	l	4.5
	b) non-segregated	
	Cash	
6220	l	0.0
6221	l	[2]
6222	l	[2]
6223	l	[2]
6224	l	[2]
0221	Bonds (market value - w/o haircuts)	1
6225	l	0.0
6226	l	0.0
6227		0.0
6228	l '	0.0
6229	· · · · · · · · · · · · · · · · · · ·	0.0
6230	l . ' '	0.0
6231		0.0
	Bonds (collateral value - post haircuts)	0.0
6232		0.0
6233		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	2,754.9
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	0.2
6245	Sovereign Government Bonds - foreign	0.0
6246	Agency	0.0
6247	Supranational Agency	0.2
6248	State / Provincial / Municipal - domestic	5.6
6249	State / Provincial / Municipal - foreign	0.0
6250	other Bonds	1.0
	Bonds (collateral value - post haircuts)	0.0
6251	Sovereign Government Bonds - domestic	0.2
6252	Sovereign Government Bonds - foreign	0.0
6253	Agency	0.0
6254	Supranational Agency	0.1
6255	l	5.4
6256	l - , , , , , , , , , , , , , , , , , ,	0.0
6257	l	0.9
6301	Initial margin rates on individual contracts, where the CCP sets such rates	[7]
	Type of initial margin model used and key model design parameters	
6401	Single Tail Confidence Level	99%
6402	Look Back Period	1 Year (250 Trading Days)



CPMI-I	OSCO L	disclosure for Central Counterparties	
			Exponential Weighting
	C402	Weighting on historical data	
	6403	Weighting on historical data Close Out Periods	with Lambda = 0.99
	6404		2 days
	6405	Rates and Credits	l
		http://www.ecc.de/ecc-en/risk-man	
	6406	Update Frequency	Daily
6.5		Results of back-testing of initial margin	prev. 12 months, daily basis
		Reported are the aggregate results counting outliers of IM calculation at the level	
		of each Non-Clearing Member at ECC.	
	6501		19
	6502		37
	6503		99.9%
	0505	o,	33.370
	6504	d) Specify if measured intraday/continuously or only once a day.	continuously
	6505		n/a
	6505		Mn. EURO
		f)	
	6506	i. breaches of initial margin: peak uncovered exposure	9.9
	6507	ii. breaches of initial margin: average uncovered exposure [8]	0.9
Margir	Calls		
			Average over quarter
6.6		Average total variation margin paid to the CCP	Mn. EURO
	6601	by participants each business day.	82.7
			Maximum over quarter
6.7		Maximum total variation margin paid to the CCP on any given business day	Mn. EURO
	6701	over the period.	246.6
			Maximum over quarter
6.8		Maximum aggregate initial margin call on any given business day over the	Mn. EURO
0.0	6901	period.	184.4
_	0801	·	184.4
7.		Liquidity Risk (Principle 7)	
7.1	7101	1' or 'Cover 2'.	Cover2
		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	2,739.1
	7109	ii. GBP	0.0
	7116	iii. USD	0.0
		b) Cash deposited at other central banks	As at quarter end
	7103	i. EUR	0.0
	7103	ii. GBP	0.0
	7110	iii. USD	0.0
	/11/		
		c) Secured cash deposited at commercial banks (including reverse repo)	As at quarter end
	7104	i. EUR	0.0
	7111	ii. GBP	0.0
	7118	iii. USD	0.0
		d) Unsecured cash deposited at commercial banks	
	7105	i. EUR	9.7
	7112	ii. GBP	1.8
	7119		0.1
		e) secured committed lines of credit including committed foreign exchange swaps	As at quarter end
		and committed repos	
	7106	i. EUR	0.0
	7113	ii. GBP	0.0
	7120		0.0
	7120	f) unsecured committed lines of credit which the CCP may draw without	As at quarter end
		providing collateral/security	, is at quarter cha
	7407		0.0
	7107		0.0
	7114	ii. GBP	0.0
	7121	iii. USD	0.0
		g)	As at quarter end
		highly marketable collateral held in custody and investments that are readily	
		available and convertible into cash with prearranged and highly reliable	
		funding arrangements even in extreme but plausible market conditions	[9]
	7108	i. EUR	50.3



CPIVII-I	OSCO Disclosure for Central Counterparties	
	7115 ii. GBP	0.0
	7122 iii. USD	0.0
	h) other	
	i. EUR	0.0
	ii. GBP	0.0
	iii. USD	0.0
	l .	
	i)	As at quarter end
	State whether the CCP has routine access to central bank liquidity or facilities.	
	7123 i. EUR	yes - intraday facility
	7124 ii. GBP	no
	7125 iii. USD	no
7.2		
7.2	7201 Supplementary Liquidity over those from 7.1 Largest same-day payment obligation in total that would be caused by the default	n/a
7.3		
	of any single participant and its affiliates in extreme but plausible market	previous quarter
	conditions?	Mn. EURO
	7301 i. maximum estimated amount	1,074.2
	7302 ii. number of days where estimated payment exceeded liquidity	0
	· · · · · · · · · · · · · · · · · · ·	
	iii. amount of excess on each day:	
	7303 amount of exess of payment over liq., 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
		n/a
		· .
	amount of exess of payment over liq., day 6	n/a
	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
	amount of exess of payment over lig., day 10	n/a
	actual largest payment obligation to a single participant over the past 12	,
	7313 iv. months	n/a
12	Exchange of Value Settlement Systems (Principle 12)	11/ 8
12.	Exchange of value Settlement Systems (Finiciple 12)	_
12.1		
	12101 Percentage of settlements by value effected using a DvP, DvD or PvP settlement	n/a
12.2	Percentage of settlements by volume effected using a DvP, DvD or PvP settlement	
	12201 mechanism	n/a
		•
		I
13	Default Rules and Procedures (Principle 13)	
13.1	Quantitative information related to past defaults	
	a) amount of loss vs. amount of margin	n/a
	b) amount of other financial resources used to cover losses	n/a
	13103 c) proportion of client positions closed-out/ported	n/a
	15105 c) proportion of client positions closed-out/ported	li/a
14.	Segregation and Portability (Principle 14)	
14.1	Total client positions (Open Interest) as a share of notional values, by type of	
	segregation	[6]
	a) basis. Olabortaida	
	a) basis: OI short side	
	14101 i. HOUSE	< 5%
	14101 i. HOUSE	
	14101 i. HOUSE 14102 ii. ISA	< 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS	< 5% 92%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS	< 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side	< 5% 92% < 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS	< 5% 92%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side	< 5% 92% < 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE	< 5% 92% < 5% < 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS	< 5% 92% < 5% < 5% < 5% 90%
15	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS 14108 iv. SOS	< 5% 92% < 5% < 5% < 5%
15.	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS	< 5% 92% < 5% < 5% < 5% 90% < 5%
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS 14108 iv. SOS General Business Risk (Prinicple 15)	< 5% 92% < 5% < 5% < 5% < 5% 90% < 5%
15. 15.1	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS 14108 iv. SOS General Business Risk (Prinicple 15) 15101 a) value of liquid net assets funded by equity (EMIR capital)	< 5% 92% < 5% < 5% < 5% 90% < 5% 90% < 5%
15.1	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS 14108 iv. SOS General Business Risk (Prinicple 15) 15101 a) value of liquid net assets funded by equity (EMIR capital) 15102 b) six months of current operating expenses	< 5% 92% < 5% < 5% < 5% 90% < 5% Mn. EURO 84.3 18.2
	14101 i. HOUSE 14102 ii. ISA 14103 iii. LSOC/GOS 14104 iv. SOS b) basis: OI long side 14105 i. HOUSE 14106 ii. ISA 14107 iii. LSOC/GOS 14108 iv. SOS General Business Risk (Prinicple 15) 15101 a) value of liquid net assets funded by equity (EMIR capital)	< 5% 92% < 5% < 5% < 5% 90% < 5% 90% < 5%



	15201 a) total revenue	83,217,913 €
	15202 b) total expenditure	42,002,633 €
	15203 c) profits	41,215,280 €
	15204 d) total assets	2,751,310,200 €
	15205 e) total liabilities	2,751,310,200 €
	15206 f)	All Cash is held on the
	Explain if collateral posted by clearing participants is held on or off the CCP's	balance sheet; pledged
	balance sheet	bonds not
		bollus liot
15.3	Income breakdowns	
	15301 a) percentage of income from clearing fees	100%
	15302 b) percentage of income from reinvestment of assests provided by clearing	0%
	participants	
16.	Custody and Investment Risks (Principle 16)	<u> </u>
	Lastody and infestment risks (i fine pie 10)	As at quarter end
		Mn. EURO
464	T . 10 1	
16.1	16101 Total Cash received by the CCP from participants	3,794.1
	16102 Total Cash received by the CCP from participants: Default Fund contributions	390.7
	16103 Total Cash received by the CCP from participants: Initial Margins	3,403.4
16.2	Investment of Cash: Deposits	
	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%
	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%
		0%
	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%
		0%
	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%
	i) weighted average maturity of these securities	0
	Investment of Cash: Investment Risk	
		2/2
		n/a
	16221 Limit for Investment Counterparty	individual limits, see [11]
	16222 Number of limit breaches	0
16.3	16301 Investment of Cash: Rehypothetication of Cash	none
	ECC does not use the instrument of rehypothetication of cash for	
	investment	
17.	Operational Risk (Principle 17)	
		1 00
17.1	17101 Operational availability targets for the core systems involved in clearing	99
17.2	17201 Achieved availability of the core systems, previous twelve months	>99%
17.3	17301 Total number of failures affecting the core systems, previous twelve months	n/a
	17302 Total duration of failures affecting the core systems, previous twelve months	n/a
17.4	17401 Recovery time objectives (in hours)	2
18.	Access and Participation Requirements (Principle 18)	
18.1	Number of clearing members by type and origin	as at quarter and
10.1		as at quarter end
	18101 a) DCM domestic	2
	18102 b) DCM foreign	3
	18103 c) GCM domestic	4
	18104 d) GCM foreign	22
	18105 e) DCP domestic	5
		32
10.3	18106 f) DCP foreign]
18.2	Percentage of OI held by Top5 CM: daily average over quarter	
	18201 a) basis: long side	74%

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	obeo bissiosare for central counterparties	
	18202 b) basis: short side	75%
	Percentage of OI held by Top5 CM: peak EoD over quarter	
	18203 c) basis: long side	76%
	18204 d) basis: short side	79%
18.3	Percentage of IM posted by Top5 CMs	
	18301 a) peak EoD over quarter	67%
	18302 b) daily average over quarter	65%
18.4	18401 Percentage of Top5 CM contributions to CF	55%
19.	Tiered Participation Arrangements (Principle 19)	
19.1	Measures of concentration of client clearing	
	19101 a) Number of known clients	565
	b) Number of CM clearing for clients	26
	19103 c) Client OI attributale to Top5 CM	76%
	19104 d) Client OI attributale to Top5 CM	76%

Comments and Explanations

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.

- ECC maintains cash collateral provided in EURO for initial margin requirements and the default fund contributions at first at its TARGET2 account.

 [2] ECC does not separate its holdings of cash and cash investments between default fund contributions and margin contributions.
- 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
 - 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.
 - 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
- [7] external parties. Information concerning the margining approach can be found under:
 - https://www.ecc.de/ecc-en/risk-management/margining
- Days without uncovered exposure are not included in the calculation of the average value.
- 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.
- Values taken from the latest audited annual financial statement. See also
- [10] 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 external data sources including external rating agencies.