Public Quantitative Disclosure Standards for Central Counterparties

ASX Clear Pty Limited

March 2017



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DISCLAIMER	

Introduction

Overview

ASX Clear Pty Limited (ASX Clear) is the central counterparty (CCP) for the clearing of shares, warrants and exchange-traded funds traded on ASX Trade or via an Approved Market Operator (AMO).

As the central counterparty, the Clearing House becomes the seller to every buyer and the buyer to every seller, making it liable for completing all cleared transactions on the relevant market. This occurs through a contractual process known as novation, in accordance with the operating rules of the Clearing House.

Standard and Poor's (S&P)

ASX has obtained an S&P issuer credit rating for ASX Clear. S&P has assigned an AA- long-term and A1+ short-term credit rating to ASX Clear. The rating outlook on the long-term issuer credit rating is stable.

European Securities and Markets Authority (ESMA) recognition

The European Market Infrastructure Regulation ("EMIR") was adopted by the European Parliament on 4 July 2012. Under EMIR, a CCP established outside of the European Union may continue to provide clearing services to clearing members established in the European Union only if ESMA recognises the CCP as a 'third-country CCP'. In addition, under the European Capital Requirements Directive IV ("CRD IV"), European banks are permitted to apply concessional risk weightings to their group's novated exposures to CCPs if they are "Qualifying CCPs". To become a Qualifying CPP, a CCP established outside the European Union must obtain recognition as a 'third country CCP' under EMIR.

ASX Clear obtained recognition as a "third-country CCP" from ESMA with effect from 27 April 2015. Two important steps to obtaining such recognition were:

- (i) the adoption by the European Commission of its equivalence decision for Australia's regulatory regime on 30 October 2014; and
- (ii) the signing of a Memorandum of Understanding relating to cooperation between ASIC, RBA and ESMA on 27 November 2014.

Background

The CPSS-IOSCO *Principles for financial market infrastructures* (PFMI) states that financial market infrastructures (FMIs) should provide relevant information to participants, relevant authorities and the broader public.

Quantitative data is an important components of the set of public disclosures that is expected of FMIs as part of satisfying the PFMI.

Purpose of the disclosures

The disclosures are intended to support the objectives of enabling stakeholders, including authorities, participants (direct, indirect and prospective) and the public, to:

• compare Central Counterparty (CCP) risk controls, including their financial condition and financial resources to withstand potential losses;

- have a clear, accurate and full understanding of the risks associated with a CCP (in accordance with Principle 23, Key Consideration 5);
- understand and assess a CCP's systemic importance and its impact on systemic risk in all jurisdictions and currency areas for which it provides services, from which it has material membership or in which there are linked infrastructures; and
- understand and assess the risks of participating in CCPs (directly, and, to the extent relevant, indirectly).

Principle 23 states that FMIs should, at a minimum, disclose "basic data" on transaction volumes and values. Principle 23 also states that FMIs should disclose data on their financial condition, their financial resources to withstand potential losses, the timeliness of settlements, and other performance statistics. They should disclose sufficient information for participants and prospective participants to understand fully the risks of participating in the system. This disclosure is expected to be to the public rather than restricted to participants or members.

Frequency and type of disclosure

The matrix below details the quantitative disclosures as required in the Public Quantitative disclosure standards for central counterparties.

These standards can be accessed via the following link. http://www.bis.org/cpmi/publ/d125.htm

For each standard that requires a quantitative disclosure the matrix will display the following information:

- The principle number;
- The requirement of that principle (as specified in the standards);
- The quantitative disclosure as it applies to the CCP¹;
- The frequency period of updating this disclosure; and
- The period for which this disclosure relates

The common templates (csv files) and supporting documentation can be accessed via the following link:

http://www.asx.com.au/regulation/regulatory-compliance/asx-clear.htm

¹ All values are provided in Australian dollars unless otherwise indicated

Principle 4 – Credit Risk

		Requir	ement	
4.1	contributions)	it by: part of the default waterfall (fi	variation margin), split by clear urther split by whether used befo ired and post-haircut amount pos	ore, alongside, or after, member
	 iii. other (b) committed i. own/parent funds that a ii. aggregate participant co iii. aggregate participant co 	are committed to address a par ommitments to address an initia ommitments to replenish the de	ticipant default (or round of parti al participant default (or initial rou fault fund to deal with a subsequ ult (or round of participant defaul	cipant defaults) und of participant defaults) ent participant default (or round
	[Refer to the explanatory note at the second s			
		Discl	osure	
	ASX Clear has total default resourc from ASX and the ability to call on			at has \$250m paid in resources
	In the event of a participant defaul additional Initial Margins that had	-		cipant together with any
		ASX Clear Total Default Reso	burces	
	Up to \$300m	Recovery Assessn	nents	
	\$178.5m	Equity (provided by A	SX)	pplication
	\$71.5m	Restricted Capital F	leserve	Order of App
		Defaulter's Margins, Addition Commitment	al Margins and	
		Paid in re		
		Promisso	ry resources	
	Update Frequency:	Quarterly	Last Updated:	31 March 2017

	Requirement					
4.2	KCCP Kccp need only be reported by those CCPs which are, or seek to be, a "qualifying CCP" under relevant law.					
	[Refer to the explanatory note a	t the end of this document for ad	ditional details]			
	Disclosure					
	The KCCP is a hypothetical capital requirement for a CCP, calculated for the purpose of determining the capital requirement on bank clearing member default fund contributions. A CCP's hypothetical capital requirement is driven by its counterparty credit risk exposures from its clearing members. The KCCP does not represent the actual default resources for a CCP (the actual default resources are determined by the CCP's supervisor). As a qualifying CCP, ASX is required to calculate the default resources on bank clearing member default fund contributions on a monthly basis.					
	The KccP (Hypothetical capital) for ASX Clear as at the reporting period was \$74,907 compared to actual default resources held of \$250m.					
	Update Frequency:	Quarterly	Last Updated:	31 March 2017		

	Requirement
4.3	Value of pre-funded default resources (excluding initial and retained variation margin) held for each clearing service, in total and split by:
	 Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo) Unsecured cash deposited at commercial banks Non-cash sovereign government bonds o domestic o other agency bonds state/municipal bonds corporate bonds equities commodities o gold o other (please describe) mutual funds / UCITs other (please provide explanation of type of asset)
	Disclosure
	Pre-funded default resources of \$250m (repayable upon demand) are provided in cash from ASX. These funds together with margins from ASX Clear and ASX Clear (Futures), default fund contributions lodged by participants of ASX Clear (Futures) and the CCPs own funds are combined into one portfolio and invested into various assets through a Trust. As the default resources cannot be individually assigned to specific asset classes, a general allocation has been made based on the proportion of the default resources to the total portfolio and this % has been applied to each asset class.
	Investment Pre Haircut (m) Post Haircut (m)
	Cash
	Cash deposit at central bank of issue of currency 0.1
	Secured cash deposit at commercial banks (including reverse repo) 118.8 118.8

Unsecured cash deposit at commercial banks	13.0	12.0
Investment	Pre Haircut (m)	Post Haircut (m)
Non- Cash		
Domestic Sovereign Government Bonds	-	-
State / municipal bonds	17.2	17.2
Corporate Bonds	-	-
Other – Floating Rate Notes	1.5	1.5
Other – Negotiable Certificates of Deposit	37.2	37.2
Other – Promissory Notes issued by State Governments	62.2	62.2
Other – Treasury Notes	-	-
Total	250.0	250.0

Note: As haircuts are only charged on the equity and debt security non-cash collateral lodged by participants to cover their margin positions, both the pre-haircut and post-haircut values of the pre-funded default resources above will be the same.

Update Frequency:	Quarterly	Last Updated:	31 March 2017

	Requirement
4.4	1) State whether the CCP is subject to a minimum "Cover 1" or "Cover 2" requirement in relation to total pre-funded default resources.
	2) For each clearing service, state the number of business days within which the CCP assumes it will close out the default when calculating credit exposures that would potentially need to be covered by the default fund.
	3) For each clearing service, what is the <i>estimated</i> largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any <i>single</i> participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions?
	4) Report the number of business days, if any, on which the above amount exceeded actual pre-funded default resources (in excess of initial margin) and by how much.
	5) For each clearing service, what was the <i>actual</i> largest aggregate credit exposure (in excess of initial margin) to any <i>single</i> participant and its affiliates (including transactions cleared for indirect participants)?
	6) For each clearing service, what is the <i>estimated</i> largest aggregate stress loss (in excess of initial margin) that would be caused by the default of any <i>two</i> participants and their affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions?
	7) Report the number of business days, if any, on which the above amount exceeded actual pre-funded default resources (in excess of initial margin) and by how much.
	8) For each clearing service, what was the <i>actual</i> largest aggregate credit exposure (in excess of initial margin) to any <i>two</i> participants and their affiliates (including transactions cleared for indirect participants)?
	[Refer to the explanatory note at the end of this document for additional details]
	Disclosure
	Ref Result
	1) ASX Clear is subject to a "Cover 2" requirement
	2) ASX Clear assumes that it will close out a default within 3 business days

3)	· ·	in the previous 12 months (Cover 1) previous 12 months (Cover 1)		\$125.0m* \$99.9m*
	Average over the	Stevious 12 months (Cover 1)		222.200
4)	The peak amount \$250.0m	in the previous 12 months of \$125.0m die	d not exceed the pre-fund	ed default resources of
->	Peak day amount	in the previous 12 months (Cover 1)		\$6.6m
5)	Average over the	previous 12 months (Cover 1)		\$0.1m
	Peak day amount	in the previous 12 months (Cover 2)		\$234.9m*
6)	Average over the	previous 12 months (Cover 2)		\$149.7m*
7)		in the previous 12 months of \$237.6m did onal initial margin was called from the rel	•	
0)	Peak day amount	in the previous 12 months (Cover 2)		\$6.6m
8)	Average over the	previous 12 months (Cover 2)		\$0.1m
	* Exposures are net	of additional initial margins (AIMs).		
	Update Frequency:	Quarterly	Last Updated:	31 March 2017

Principle 5 – Collateral

				Requir	ement		
5.1	Assets eligible as initial margin, and the respective haircuts applied						
	[Refer to the expl	anatory note a	t the end of this d	ocument for ad	lditional details]		
				Discl	osure		
	Subject to approval and on such conditions as ASX Clear may of margin:			Clear may dete	rmine from time	to time, the follo	wing may be provided in respect
							Duravida d fau
	Instrument		/ed Cover		Valuation Haircu	л	Provided for Initial Margin
	Cash Cover	AUD Cash			N/A		Additional Initial Margin
	Cash	Specific Cove S&P / ASX 20		Tierer	N/A d at 15%, 20% ar	nd 30%	Initial Margin
	Equities	SPDR S&P / A		Theree	10%	10 5070	initia Margin
	Please refer to the link below for a list of acceptable Cash B http://www.asx.com.au/regulation/regulatory-compliance					neir relevant haird	cuts.
	Updat	e Frequency:	When chang	ges made		Last Updated:	31 March 2017
				D			
5.0	Assats slights for				ement		
5.2	Assets eligible for pre-funded participant contributions to the default resources, and the respective haircuts applied (if different from 5.1)						
	Disclosure						
	The ASX Clear def	fault resources	do not contain an	y pre-funded p	ded participant contributions.		
	Updat	e Frequency:	When chang	ges made		Last Updated:	31 March 2017
				Requir	ements		
5.3	 Results of testing of haircuts – please state the: confidence interval targeted through the calculation of haircuts assumed holding/liquidation period for the assets accepted, look-back period used for testing the haircuts, The number of days during the look-back period on which the fall in value during the assumed holding/liquidation per exceeded the haircut on an asset. [Refer to the explanatory note at the end of this document for additional details] 				umed holding/liquidation period		
				Discl	osure		
	Back testing of Co	ollateral haircut	s is performed on	a quarterly bas	sis covering the	previous 12 mont	ths.
	Ref Iter		LT			sult	
		nfidence Interva	¹ Liquidation Perio	d		9% siness days	
		k-back Period		<u> </u>		usiness days	
	4 Nur	nber of days ex	ceeded the Hairc	ut	33	3*	
	*Note – The 33 I	breaches were ov	er 56,068 observati	ons giving a cove	rage of 99.99%		
	Updat	e Frequency:	Quarte	erly		Last Updated:	31 March 2017

Principle 6 – Margin

Initial Margin

		Requi	rement			
6.1	For each clearing service, total initial m	nargin required , split by ho	use and client (or combined total i	if not segregated)		
	– .	For each clearing service, state whether initial margin for the positions of indirect participants must be provided for each indirect participant's own position (gross), or for the net position of a group of indirect participants ("net" or "net omnibus")				
	[Refer to the explanatory note at the e	[Refer to the explanatory note at the end of this document for additional details]				
		Discl	osure			
	- · · ·	ASX Clear faces each clearing participant as principal (e.g. House) for all Cash Market transactions. For Exchange Traded Options each client has their own individual Client Account (ICA).				
	Туре	(m)				
	Cash Market - House (Gross)	\$161.4				
	ETO - House (Gross)	\$164.8				
	ETO – Client (Gross)	\$828.1				
	Update Frequency:	Quarterly	Last Updated:	31 March 2017		

	Requirement
6.2	For each clearing service, total initial margin <i>held</i> , split by house and client (if segregated).
	For each of the overall house and client totals (or for just the overall total posted, if house and client are not segregated), the amounts of:
	 Cash deposited at a central bank of issue of the currency concerned Cash deposited at other central banks Secured cash deposited at commercial banks (including reverse repo) Unsecured cash deposited at commercial banks Non-cash sovereign government bonds domestic other agency bonds state/municipal bonds corporate bonds gold other mutual funds / UCITs mutual funds / UCITs other (please provide explanation of type of asset) Amounts should be reported both pre-haircut (i.e. at market value) and at post-haircut value.
	[Refer to the explanatory note at the end of this document for additional details]
	Disclosure
	Cash margins and default fund contributions lodged by participants of ASX Clear and ASX Clear (Futures) and the CCPs own funds are combined into one portfolio and invested into various assets through a Trust.

As the initial margins cannot be individually assigned to specific asset classes, a general allocation has been made based on the proportion of the initial margin lodged to the total portfolio and this % has been applied to each asset class.

This table also includes non-cash collateral (including any excess collateral) that has been lodged by any of the clearing participants.

	Hc	House		Client		
Investments	Pre Haircut (m)	Post Haircut (m)	Pre Haircut (m)	Post Haircut (m		
Cash						
Cash deposit at central bank of issue of currency	0.1	0.1	0.1	0		
Secured cash deposit at commercial banks (including reverse repo)	153.8	153.8	113.2	113		
Unsecured cash deposit at commercial banks	16.8	16.8	12.4	12		
Non-Cash						
Domestic Sovereign Government Bonds	-	-	-			
State / municipal bonds	22.2	22.2	16.4	16		
Corporate Bonds	-	-	-			
Equities	25.2	20.2	734.6	587		
Other – Floating Rate Notes	2.0	2.0	1.5	1		
Other – Negotiable Certificates of Deposit	48.1	48.1	35.4	35		
Other – Promissory Notes issued by State Governments	80.5	80.5	59.2	59		
Other – Treasury Notes	-	-	-			
Other - Bank Guarantees	-	-	0.5	C		
		343.7	973.3	826		

	Requirement						
6.3	Initial margin rates on individual contracts, where the CCP sets such rates						
	[Refer to the explanatory note at the end of this document for additional details]						
	Disclosure						
	Refer to the link below for the ASX Clear SPAN margin parameters and Cash Market margin parameters						
	http://www.asx.com.au/regulation/regulatory-compliance/asx-clear.htm						
	Update Frequency:	When changes made	Last Updated:	31 March 2017			

	Requirement
6.4	Type of initial margin model used (e.g. portfolio simulation or risk aggregation) for each clearing service and the key model desigr parameters for each initial margin model applied to that clearing service – key parameters including, but not limited to:
	 (i) single-tailed confidence level targeted; (ii) sample/data look-back period for calibrating the model; (iii) adjustments or scalars or weighting, if any, applied to historical data (e.g. to reflect changes in volatility); (iv) close-out/holding periods by product (or, if varying, contract type); (v) for risk aggregation models, the margin rate per contract and details of the offsets between different contracts [e.g. for SPAN style models this might include inter-month spread charges and inter-contract spread credits]; (vi) the frequency of parameter reviews.

		Disclosure		
Ref	Item	SPAN (Derivatives)	HSVa	R (Equities)
(i)	Single-tailed confidence level targeted	99.7%		99.7%
(ii)	sample/data look-back period for calibrating the model	1 Year		R = 502 days Rate = 1 Year
(iii)	Adjustments, scalars or weighting	Not strictly formulaic. Multiple look- back periods considered incorporating both short and long term periods (60 and 252 business days).	HsVaR contributions for securities are calculated on 99% confidence interval and then a portfolio add on factor of 30% is added to construct a reliable estimate of the desired 99.7% margin coverage.	
			for statistical uncer	r is applied to account rtainty and construct a f the desired 99.7%
(iv)	Close-out / holding Periods	1 and 2 Days	HSVaR = Top 500 = 1 day Flat Rate ASX Top 200 = 1 day Flat Rate ASX Next 300 = 2 day Flat Rate Interest Rate Securities = 3 da Flat Rate Warrants = 3 days Flat Rate Non-All Ordinaries = 3 days	
(v)	 Offsets between different contracts http://www.asx.com.au/regulation/regulation/regulatory-compliance/asx-clear.htm 		g N/A	
(vi)	Frequency of reviews	Monthly	C	luarterly

			Requirement					
6.5	5 Results of back-testing of initial margin. At a minimum, this should include, for each clearing service and each initial margin applied to that clearing service:							
	to-market e (b) Number of a (c) Achieved co * Specify if mea Where breaches o	xposure of that member accound observations (i.e. number of ac overage level, i.e. [(b) – (a)]/(b) sured intraday/continuously of	int – based on daily back-te counts multiplied by numbe r only once a day. If once a d efined in 6.5(a)) have occurr	er of days covered in the back test) day, specify at what time of day. red, report on size of uncovered exposure.				
			Disclosure					
	Ref	ETO's	Cash Market					
	(a)	810	24					
	(b)	2,244,182	7,960					

(c)	99.96%	99.	90%
Peak	\$0.2m	\$3	.5m
Average	\$0.0m	\$1	2m
Update Fr	requency: Qu	arterly	Last Updated

Margin Calls

		Requirement					
6.6	Average total variation margin paid to the CCP by participants each business day.						
	[Refer to the explanatory note at the end of this document for additional details]						
		Disclosure					
	Average total variation margin paid to the CCP by participants each business day over the quarter. \$28.3m						
	Update Frequency:	Quarterly	Last Updated:	31 March 2017			

	Requirement						
6.7	Maximum total variation margin paid to the CCP on any given business day over the period.						
	Disclosure						
	Maximum total variation margir	Maximum total variation margin paid to the CCP on any given business day over the quarter. \$168.4m					
	Update Frequency:	Quarterly	Last Updated:	31 March 2017			

		Requirement					
6.8	Maximum aggregate initial margin call on any given business day over the period.						
		Disclosure					
	Maximum aggregate initial marg	Maximum aggregate initial margin call on any given business day over the quarter. \$63.1m					
	Update Frequency:	Quarterly	Last Updated:	31 March 2017			

Principle 7 – Liquidity Risk

Requirement						
5	State whether the clearing servi	ice maintains sufficient liquid reso	urces to 'Cover 1' or	'Cover 2'.		
s ((((() () ()	 service level) – for each relevant (a) Cash deposited at a centra (b) Cash deposited at other centra (c) Secured cash deposited at (d) Unsecured cash deposited (e) secured committed lines committed foreign exchant (f) unsecured committed line (g) highly marketable collate 	al bank of issue of the currency co entral banks t commercial banks (including reve	ncerned erse repo) llateral/security will y draw without provi- nents that are readi	be provided ding collatera ly available a	by the CCP if drawn) including al/security); and convertible into cash with	
State whether the CCP has routine access to central bank liquidity or facilities.						
 If, in using qualifying liquid resources the CCP is required or allowed to give priority to meeting certain payment obligations, ple provide or reference: the schedule of payments or priority for allocating payments, if such exists; 						
•	e any applicable rule, policy,	procedure, and governance arran	-	decision mak	king.	
	Disclosure					
i	nto various assets through a Tr	learing houses together with the ust, a general allocation has been folio and this % has been applied t	made based on the p	proportion of		
i c	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient lie	ust, a general allocation has been folio and this % has been applied t	made based on the p	proportion of	the portfolio lodged by each	
i c	nto various assets through a Tri clearing house to the total portf ASX Clear maintains sufficient lic Investments	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2.	made based on the p	proportion of	the portfolio lodged by each Value (m)	
i c	nto various assets through a Tri clearing house to the total portf ASX Clear maintains sufficient lin Investments Cash deposited at central bar	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency	made based on the p	proportion of	the portfolio lodged by each Value (m) 0.3	
i c	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient lin Investments Cash deposited at central ban Secured cash deposited at co	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency ommercial banks (including revers	made based on the p to the relevant asset	proportion of	the portfolio lodged by each Value (m) 0.3 385.9	
i c	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient line Investments Cash deposited at central ban Secured cash deposited at co Unsecured cash deposited at	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency ommercial banks (including revers t commercial banks held in custody & investments tha	made based on the p to the relevant asset e repo)	proportion of	the portfolio lodged by each Value (m) 0.3	
i c	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient line Investments Cash deposited at central bar Secured cash deposited at co Unsecured cash deposited at Highly marketable collateral	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency ommercial banks (including revers t commercial banks held in custody & investments tha	made based on the p to the relevant asset e repo)	proportion of	the portfolio lodged by each Value (m) 0.3 385.9 7.7	
	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient lie Investments Cash deposited at central bar Secured cash deposited at co Unsecured cas	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency ommercial banks (including revers t commercial banks held in custody & investments that o cash y in RBA eligible securities and AS2 dby (undrawn) liquidity facility of d by a commercial bank line. f a Clearing Participant default AS2	made based on the p to the relevant asset of e repo) at are readily Total & Clear is not required \$150m. This compris X also has the ability	oroportion of class. d to give prio es of \$50m fi to enter into	the portfolio lodged by each Value (m) 0.3 385.9 7.7 383.4 777.3 rity in meeting payment rom ASX Limited and a further an Offsetting Transaction	
i c A c F F A	nto various assets through a Tri Clearing house to the total portf ASX Clear maintains sufficient lie Investments Cash deposited at central bar Secured cash deposited at co Unsecured cash deposited at co Unsecured cash deposited at co Highly marketable collateral available and convertible into Any cash reinvestments are only obligations ASX Clear has a committed stan \$100m from ASX Limited backed For Cash Market, in the event of Arrangement (OTA) for any outs	ust, a general allocation has been folio and this % has been applied t quid resources for Cover 2. nk of issue of the currency ommercial banks (including revers t commercial banks held in custody & investments that o cash y in RBA eligible securities and AS2 dby (undrawn) liquidity facility of d by a commercial bank line.	made based on the p to the relevant asset of e repo) at are readily Total \$150m. This comprise \$150m. This comprise X also has the ability a non-defaulting Clea	oroportion of class. d to give prio es of \$50m fr to enter into aring Particip	the portfolio lodged by each Value (m) 0.3 385.9 7.7 383.4 777.3 rity in meeting payment rom ASX Limited and a further an Offsetting Transaction ant. It is expected that availabl	

	Requirement						
7.2	Size and composition of any supplementary liquidity risk resources for each clearing service above those qualifying liquid resources above.						
	[Refer to the explanatory note a	t the end of this document for ad	ditional details]				
	Disclosure						
	There are no supplementary liquidity risk resources beyond what has been detailed in principle 7.1 for ASX Clear.						
	Update Frequency:	Quarterly	Last Updated:	31 March 2017			

				Requir	ement		
3 F	or each clearing	g service (or at the agg	gregate CCP level if	f not man	naged at clearin	ng service level):	
2, 3, 4, 5,	 What is the <i>estimated</i> largest same-day and, where relevant, intraday and multiday payment obligation in total that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions? Report the number of business days, if any, on which the above amount exceeded its qualifying liquid resources (identified as in 7.1, and available at the point the breach occurred), and by how much. What is the <i>actual</i> largest intraday and multiday payment obligation of a single participant and its affiliates (including transactions cleared for indirect participants) over the past twelve months? What is the <i>estimated</i> largest same-day and, where relevant, intraday and multiday payment obligation <i>in each relevant currency</i> that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions? Report the number of business days, if any, on which the above amounts exceeded its qualifying liquid resources in each relevant currency that would be caused by the default of any single participant and its affiliates (including transactions cleared for indirect participants) in extreme but plausible market conditions? Report the number of business days, if any, on which the above amounts exceeded its qualifying liquid resources in each relevant currency (as identified in 7.1 and available at the point the breach occurred), and by how much. 						
[F	Refer to the exp	lanatory note at the e	end of this docume]	
				Disclo	osure		
	Ref		Result				
	1)		Result \$775.9m* 0 days*				
			\$775.9m*				
	1)	Pe	\$775.9m* 0 days*				
	1) 2)	Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m*				
	1) 2) 3)	Cover 2:	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m*				
	1) 2) 3) 4)	Cover 2: Cover 2: Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m* r 1: 0 days*				
	1) 2) 3)	Cover 2: Cover 2: Cover Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m*				
	1) 2) 3) 4)	Cover 2: Cover 2: Cover Cover Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m* r 1: 0 days* r 1: \$0.0m*				
*	1) 2) 3) 4) 5)	Cover 2: Cover 2: Cover Cover Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m* r 1: 0 days* r 1: \$0.0m* r 2: 0 days* r 2: \$0.0m*	se of the	Offsetting Tran	ssaction Arrangeme	nts (refer 7.1)
	1) 2) 3) 4) 5) Would be cove	Cover 2: Cover 2: Cover Cover Cover Cover	\$775.9m* 0 days* \$0.0m* eak \$123.4m 1: \$775.9m* \$1,318.9m* r 1: 0 days* r 1: \$0.0m* r 2: 0 days* r 2: \$0.0m*	se of the	Offsetting Tran	nsaction Arrangeme	ents (refer 7.1)

Principle 12 – Exchange of Value Settlement System

			Requir	ement			
12.1	Percentage of settlements by value effected using a DvP, DvD or PvP settlement mechanism						
	[Refer to the	explanatory note at	t the end of this document for ad	ditional details]			
			Discl	osure			
		arket transactions a ettled via the margi	υ,	Payment (DvP) settlement mechai	nism as Exchange Traded		
	trades) transa netted ³ per so The balance c	action is recorded b ecurity for settleme	y the market operator ² . Then on int on T+2. Ide the movement of stock betwo	fter bid/offer matched on the trac the evening of Trade Date +1 (T+1 een clearing participants and their	1) the novated transactions are		
	Туре	Percentage					
	DvP	100%					
	DvD	N/A	-				
	PvP N/A						
	U	odate Frequency:	Quarterly	Last Updated:	31 March 2017		

		Requirement						
12.2	Percentage of	Percentage of settlements by volume effected using a DvP, DvD or PvP settlement mechanism						
	[Refer to the explanatory note at the end of this document for additional details]							
	Disclosure							
	Only Cash Market transactions are settled through a Delivery vs. Payment (DvP) settlement mechanism as Exchange Traded Options are settled via the margining process. Cash Market transactions are novated to ASX Clear immediately after bid/offer matched on the trading platform, or (for reported trades) transaction is recorded by the market operator. Then on the evening of Trade Date +1 (T+1) the novated transactions are netted per security for settlement on T+2.							
	Туре	Percentage						
	DvP	100%						
	DvD	N/A						
	PvP N/A							
	Up	date Frequency:	Quarterly	Last Updated:	31 March 2017			

² In either case the transaction must subsequently be submitted to ASX Clear and validated for eligibility, if the transaction is eligible for clearing, the transaction is novated with effect from this point, if it is not, the transaction is rejected.

³ Excluding Broker / Broker transactions that have been novated but isolated from netting due to a corporate action etc.

Principle 13 – Default Rules and Procedures

	Requirement						
13.1	CCPs are encouraged, subject to legal constraints on timing and content, to disclose as soon as practicable quantitative information related to defaults, such as:						
	 Amount of loss versus amount of initial margin Amount of other financial resources used to cover losses Proportion of client positions closed-out/ported Appropriate references to other published material related to the defaults may also be helpful. 						
	Disclosure						
	There were no ASX Clear Clearing Participant defaults in the reporting period.						
	Refer to the following link for an overview on default management:						
	http://www.asx.com.au/service	http://www.asx.com.au/services/clearing/default-management.htm					
	Update Frequency:	Ad Hoc	Last Updated:	31 March 2017			

Principle 14 – Segregation and Portability

		Requirement						
14.1	Split, by clearin	Split, by clearing service, of total client positions held in:						
	(b) omnibus(c) legally se	 (b) omnibus client-only accounts, other than LSOC accounts (see below); (c) legally segregated but operationally comingled (LSOC) accounts; 						
	as a share of no	otional values cle	eared or of the settlement value of	securities transactions.				
	[Refer to the ex	planatory note a	at the end of this document for ad	ditional details]				
			Discl	osure				
	ASX Clear operates a principal to principal model for Cash Market and Exchange Traded Options.							
	For Exchange Traded Options ASX Clear has an account structure that provides each client with an individual segregated accounts, whereas for Cash Market all positions are registered into the name of the Clearing Participant e.g. there is no look through to thei underlying clients.							
	Ref	Result						
	(a)	100% (1)						
	(b)	0						
	(c) 0							
	(d) N/A (2)							
		xchange Traded comments abov	Options only re regarding Cash Market					
	Upc	late Frequency:	Quarterly	Last Updated:	31 March 2017			

Principle 15 – General Business Risk

	Requirement							
15.1								
	[Refer to the explanatory note at the end of this document for additional details]							
	Disclosure							
	 (a) Capital to cover General Business Risk is held at the holdings company level and not the individual clearing house. \$35m is assigned for ASX Clear business risk. (b) \$85.5m * 							
	*Disclosures are based on amount (Futures), for the financial year e		iaries (the group), which includes /	ASX Clear and ASX Clear				
	Update Frequency:	Annual	Last Updated:	30 June 2016				
		Requir	ement					
15.2	Financial disclosures: including, b	out not limited to,						
	 total revenue, total expenditure, profits, total assets, total liabilities. 							
	Explain if collateral posted by cle	aring participants is held on or o	ff the CCP's balance sheet.					
		Discl	osure					
			or the provision of operational ser ot have any meaningful revenues o					
			its subsidiaries (the group), which	includes ASX Clear and ASX				
	Clear (Futures), for the financial	year ended 30 June 2016.						
	Total Revenue Total Expenditure Net Profits before Tax Net Profits after Tax							
	Total Assets Total Liabilities	\$10,451.6m \$6,627.5m						
	Collateral posted by participants	to cover ASX Clear margin obliga	tions are held off the balance shee	et.				
	Update Frequency:	Annual	Last Updated:	30 June 2016				

	Requirement							
15.3	 Income breakdowns: (a) percentage of total income that comes from fees related to provision of clearing services; (b) percentage of total income that comes from the reinvestment (or rehypothecation) of assets provided by clearing participants. 							
	Disclosure							
	(a) % of total income from fees related to provision of clearing services: 21% (1)							

 (b) % of total income from the reinvestment of cash margins: 12% (2)

 (1) Clearing fees for derivatives are bundled with trading and settlement fees. A portion of the total fees charged for trading, clearing and settlement has been allocated to clearing activities based on estimates by management.

 (2) The % of total income from reinvestment of cash margins disclosures are based on amounts for ASX Limited and its subsidiaries (the group), which includes ASX Clear and ASX Clear (Futures), for the financial year ended 30 June 2016. Re-hypothecation of collateral is not permitted.

 Update Frequency:
 Annual
 Last Updated:
 30 June 2016

Principle 16 – Custody and Investment Risk

	Requirement					
16.1	Total cash (but not securities) received from participants, regardless of the form in which it is held, deposited or invested, split by whether it was received as initial margin or default fund contribution					
Disclosure						
\$561.7m received from ASX Clear Clearing Participants as Initial Margin.						
	Note – There are no Clearing Participant contributions in the ASX Clear default fund.					
	Update Frequency:	Last Updated:	31 March 2017			

 How the total cash received from participants (i.e. the combined total of initial margin and default fund contributions in 16.1) is neld/deposited/invested, including: percentage of this total participant cash held as cash deposits (including through reverse repo); further split into: percentage held: as cash deposits at central banks of issue of the currency deposited; as cash deposits at other central banks; as cash deposits at commercial banks; of which:
 percentage held: as cash deposits at central banks of issue of the currency deposited; as cash deposits at other central banks;
 percentage secured (including through reverse repo); percentage unsecured; in money market funds; in other forms (please specify). percentage split by currency of these cash deposits (including reverse repo) and money market funds - local currency, USD, EUR, other
 weighted average maturity of these cash deposits (including reverse repo) and money market funds percentage of this total participant cash invested in securities; further split into: percentage invested in sovereign government bonds; of which: domestic; other; agency bonds; state/municipal bonds; other instruments (please describe); percentage split by currency of these securities - local currency, USD, EUR, other. weighted average maturity of these securities

State if the CCP investment policy sets a limit on the proportion of the investment portfolio that may be allocated to a single counterparty, and the size of that limit.

State the number of times over the previous quarter in which this limit has been exceeded.

Disclosure

Margins and default funding lodged by participants of ASX Clear and ASX Clear (Futures) and the CCPs own funds are combined into one portfolio and invested into various assets.

As the total cash received from Participants cannot be individually assigned to specific asset classes, a general allocation has been made based on the proportion of the cash received from Participants to the total portfolio and this % has been applied to each asset class.

The below disclosures include excess cash received from participants over and above their initial margin requirement.

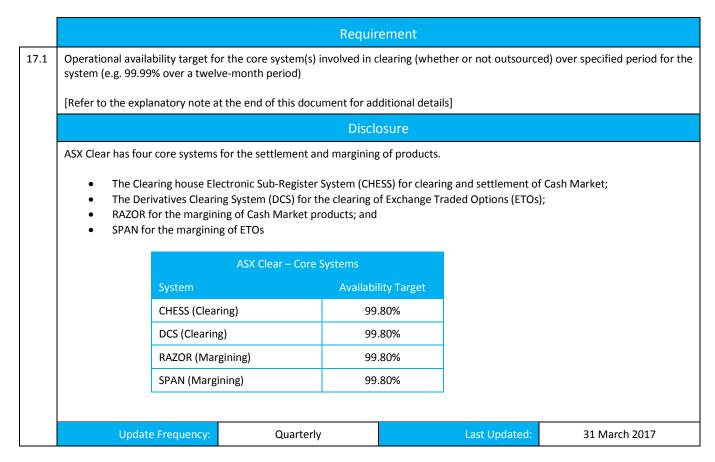
Investment	Percentage				
Central bank of issue of the currency deposited	0.03%				
Secured cash deposits at commercial banks (including reverse repo)					
Unsecured cash deposits at commercial banks	5.20%				
% of total participant cash held as cash deposits (incl. reverse repo):	52.77%				
Domestic Sovereign Government Bonds	0.00%				
State / municipal bonds	6.87%				
Other - Corporate Bonds	0.00%				
Other – Floating Rate Notes	0.61%				
Other – Negotiable Certificates of Deposit	14.87%				
Other – Promissory Notes issued by State Governments	24.88%				
Other – Treasury Notes	0.00%				
% of total participant cash invested in securities:	47.23%				

Weighted average maturity of these securities (WAM)	69.55 days
Estimated risk on the Investment portfolio (VaR = 2 day holding period calculated at 99% confidence)	\$308K

Counterparty		Limit (\$) per Counterparty	
Australian Government		Unlimited	
State Government		\$1,400m	
New Zealand Government		NZD\$250m	
New Zealand Deposit-taking	Institution	NZD\$100m	
Major Australian Deposit-tak	ing Institution	\$350m	
Other Australian Deposit-tak	ing Institution (A1+)	\$150m	
Other Australian Deposit-tak	ing Institution (A1)	\$100m	
Update Frequency:	Quarterly	Last Updated:	31 March 2017

	Requirement							
16.3	Rehypothecation of participant assets (i.e. non-cash) by the CCP where allowed, split by initial margin and default fund:							
	 total value of participant non-cash rehypothecated; maturities (overnight/one day; over one day and up to one week; over one week and up to one month; over one month and up to one year; over one year and up to two years; over two years); 							
		Disclosure						
	The value of participants' non-ca permitted.	The value of participants' non-cash collateral re-hypothecated as at quarter end was nil as re-hypothecation of collateral is not permitted.						
	Quarterly	Last Updated:	31 March 2017					

Principle 17 – Operational Risk



				Requirement				
17.2	Actual availability	l availability of the core system(s) over the previous twelve month period.						
				Disclosure				
	All ASX Clear core	5X Clear core systems have had 100% availability over the last 12 months						
			ASX Clear – Core S	Systems				
	System Availability							
		CHESS (Clearing)		100.00%				
		DCS (Clearing	g)	100.00%				
		RAZOR (Mar	gining)	100.00%				
		SPAN (Margi	ning)	100.00%				
	Updat	ate Frequency: Quarterly		Last Updated:	31 March 2017			
. <u> </u>								

	Requirement
17.3	Total number and duration of failures affecting the core system(s) involved in clearing over the previous twelve month period
	Disclosure
	There were no failures with the ASX Clear core systems for the last 12 months

System	Number of Failures	Duration (Mins)
CHESS (Clearing)	0	0
DCS (Clearing)	0	0
RAZOR (Margining)	0	0
SPAN (Margining)	0	0

			Requirement				
.7.4	Recovery time objective(s) (e.g.	within two hours)					
			Disclosure				
	All ASX Clear core systems are subject to a 2 hour recovery time objective.						
		ASX Clear – Core	Systems				
	System	I	Recovery Time Objective				
	CHESS (Clear	ring)	2 Hours				
	DCS (Clearin	g)	2 Hours				
	RAZOR (Mar	gining)	2 Hours				
	SPAN (Marg	ning)	2 Hours				
	SPAN (Marg	ning)	2 Hours]			
	Update Frequency:	Quarterl	у	Last Updated:	31 March 2017		

Principle 18 – Access and Participation requirements

		Requirer	nents					
18.1	Number of clearing members, by clearing service, split by:							
	 category of membership (e.g. direct clearing member, general clearing member); type of participant (central bank, CCP, bank, other); and domestic or foreign participants. [Refer to the explanatory note at the end of this document for additional details]							
	Disclosure							
	On ASX Clear there are two categories of Clearing Participants, "Direct: and "General": "Direct Participant" means a Participant which is admitted by ASX Clear to clear a category of Market Transaction for itself, its own Clients and Market Participants that are Wholly-Owned Group Entities and their clients.							
	"General Participant" means a P	articipant which is admitted by ASX	Clear to clear a category of	Market Transaction for	itself, its			
	own Clients, other Participants and	nd their Clients and Market Partici	pants and their Clients.					
	Category of Membership Type of Participant Domestic Foreign							
	Direct	Bank	0	0				
	Direct	Bank Subsidiary	5	0				
	Direct	Investment Bank	7	0				
	Direct	Domestic	10	0				
	Direct	International	2	0				
	Direct	Suspended	1	0				
		Total Direct Participants	25	0				
	General	Bank	1	1				
	General	Bank Subsidiary	5	0				
	General	Investment Bank	2	0				
	General	Domestic	2	0				
	General	International	1	0				
	General	Suspended	0	0				
		Total General Participants	11	1				
		Grand Total	36	1				
	Update Frequency:	Quarterly	Last Update	d: 31 March 2	017			

	Requirement						
18.2	For each clearing service with ten or more members, but fewer than 25 members:						
	- Percentage of the top five clearing members by the largest open positions, including both house and client, in aggregate						
	For each clearing service with 25 or more members:						
	 Percentage of the top five and ten clearing members by the largest open positions, including both house and client, in aggregate 						
	[Refer to the explanatory note at the end of this document for additional details]						
	Disclosure						
	As detailed in 18.1 at the time of the update ASX Clear had 37 Clearing Participants. Percentage of open positions held by the largest five and ten clearing participants were:						
		Largest 5 Clea	ring Participants	Larges	t 10 Clearing Participants		
	Cash Market - Average	41	.86%		70.45%		
	Cash Market - Peak end of day	50).30%		81.07%		
	ETO – Average 65.18% 85.83%				85.83%		
	ETO – Peak end of day	66	5.51%		86.46%		
	Update Frequency:	Quarterly	Last U	Jpdated:	31 March 2017		

	Requirement				
.3	For each clearing service with ten or more members, but fewer than 25 members:				
	- Percentage of the largest five clearing members by initial margin, including both house and client, in aggregate				
	For each clearing service with 25 or more members:				
	- Percentage of the largest five and ten clearing members by initial margin, including both house and client, in aggregate				
	[Refer to the explanatory note at the end of this document for additional details]				
		Disclosure			
	As detailed in 18.1 at the time of the up largest five and ten clearing participant	odate ASX Clear had 37 Clearing Participants. Possience:	Ū	с <i>і</i>	
	largest five and ten clearing participant	odate ASX Clear had 37 Clearing Participants. Possivere: Largest 5 Clearing Participants	Ū	10 Clearing Participants	
	largest five and ten clearing participant Cash Market – Average	odate ASX Clear had 37 Clearing Participants. Personance of the second s	Ū	10 Clearing Participants 64.32%	
	largest five and ten clearing participant Cash Market – Average Cash Market - Peak end of day	odate ASX Clear had 37 Clearing Participants. Points were: Largest 5 Clearing Participants 40.50% 50.86%	Ū	10 Clearing Participants 64.32% 79.97%	
	largest five and ten clearing participant Cash Market – Average Cash Market - Peak end of day ETO – Average	odate ASX Clear had 37 Clearing Participants. Person vere: Largest 5 Clearing Participants 40.50% 50.86% 56.38%	Ū	10 Clearing Participants 64.32% 79.97% 81.56%	
	largest five and ten clearing participant Cash Market – Average Cash Market - Peak end of day	odate ASX Clear had 37 Clearing Participants. Points were: Largest 5 Clearing Participants 40.50% 50.86%	Ū	10 Clearing Participants 64.32% 79.97%	

	Requirement
18.4	For each segregated default fund with ten or more members, but fewer than 25 members:
	- Percentage of participant contributions to the default fund contributed by largest five clearing members in aggregate
	For each segregated default fund with 25 or more members: - Percentage of participant contributions to the default fund contributed by largest five and ten clearing members in aggregate

[Refer to the explanatory note at the end of this document for additional details]					
Disclosure					
At the time of the update the ASX Clear default fund of \$250m contained no ASX Clear Clearing Participant contributions.					
Update Frequency:	Quarterly	Last Updated:	31 March 2017		

Principle 19 – Tiered Participation arrangements

 Numbolic Numbolic Per ce transa ten cle 	of concentration of client clearing: per of clients (if known) per of direct members that clear for clients ent of client transactions by clearing service (actions or similar) attributable to the top five earing members (if the CCP has 25 or more cle he explanatory note at the end of this docume	clearing members (if the CCP has ten or earing members)		
 Number Per ce transation ten cle 	per of direct members that clear for clients ent of client transactions by clearing service (actions or similar) attributable to the top five earing members (if the CCP has 25 or more cle	clearing members (if the CCP has ten or earing members) ent for additional details]		
 Per ce transa ten cle 	ent of client transactions by clearing service (actions or similar) attributable to the top five earing members (if the CCP has 25 or more cle	clearing members (if the CCP has ten or earing members) ent for additional details]		
transa ten cle	actions or similar) attributable to the top five earing members (if the CCP has 25 or more cle	clearing members (if the CCP has ten or earing members) ent for additional details]		
		Disclosure		
Disclosure				
Ref	Result			
1.44 ASX Market Participants, and 2 CHI-X Trading Participants that clear through a direct member				
2. 10 Direct members clear for the above				
3.	Top 5 = 36% Top 10 = 41%			
		Last Hedatod	31 March 2017	
		Top 5 = 36%	3. Top 5 = 36% Top 10 = 41%	

Principle 20 – FMI Links

Interoperability

	Requirement							
20.1	Value of trades cleared through service	Value of trades cleared through each link, by clearing service – as a share of total trade values/total notional values cleared in that service						
	[Refer to the explanatory note at the end of this document for additional details]							
	Disclosure							
	ASX Clear has the following FMI Links:							
	 ASX Settlement Pty Limited; and Austraclear Limited 							
	ASX Clear does not transact through either of these FMI Links.							
	Update Frequency:	Quarterly	Last Updated:	31 March 2017				

	Requirement						
20.2	Initial margin or equivalent financial resources provided to each linked CCP by the CCP to cover the potential future exposure of the linked CCP on contracts cleared across link						
	Disclosure						
	Not Applicable						
	Update Frequency:	Quarterly	Last Updated:	31 March 2017			

	Requirement							
20.3	Initial margin or equivalent financial resources <i>collected from</i> each linked CCP to cover potential future exposure to the linked CCP on contracts cleared across link (at market value and post-haircut)							
	Disclosure							
	Not Applicable							
	Update Frequency:	Quarterly	Last Updated:	31 March 2017				

			Requir	ement			
20.4	Results of back-testing of coverage of initial margin or equivalent financial resources on trades cleared through each link. At a minimum this should include:						
	(a)			age provided by margin and equ arket exposure to that linked CC			
	 (b) Number of observations (i.e. number of accounts multiplied by number of days covered in the back test) (c) Achieved coverage level i.e. [(b) – (a)]/(b) *specify if measured intraday/continuously or only once a day. If once a day, s at what time of day. 						
			Discl	osure			
	Not	Applicable					
		Update Frequency:	Quarterly	Last Updated:	31 March 2017		

Requirement						
Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources provided to each linked CCP, that are available to the linked CCP to cover exposures to the CCP and whether part of, additional to, or separate from the standard default fund (please specify)						
Disclosure						
Not Applicable						
Update Frequency:	Quarterly	Last Updated:	31 March 2017			
	CCP, that are available to the lir standard default fund (please sp Not Applicable	Additional pre-funded financial resources (if any) beyond initial r CCP, that are available to the linked CCP to cover exposures to t standard default fund (please specify) Discle Not Applicable	Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources (if any) beyond initial margin and equivalent financial resources, that are available to the linked CCP to cover exposures to the CCP and whether part of, addistandard default fund (please specify) Disclosure Not Applicable			

	Requir	ement				
Additional pre-funded financial resources (if any) beyond initial margin and equivalent financial resources collected from each linked CCP, that are available to the CCP to cover exposures to the linked CCP and whether part of, additional to, or separate from the standard default fund (please specify)						
	Disclo	osure				
Not Applicable						
Update Frequency:	Quarterly	Last Updated:	31 March 2017			
	CCP, that are available to the CC standard default fund (please sp Not Applicable	Additional pre-funded financial resources (if any) beyond initial ma CCP, that are available to the CCP to cover exposures to the link standard default fund (please specify) Disclor Not Applicable	CCP, that are available to the CCP to cover exposures to the linked CCP and whether part of, add standard default fund (please specify) Disclosure Not Applicable			

Cross Margining

		Requir	rement			
20.7	 (a) Value of trades subject to cross margining, by clearing service, as a percentage of total trade values/total notional values cle (b) Reduction in total initial margin held by the CCP as a result of cross margining, as a percentage of total initial margin that w otherwise have been held. 					
		Discl	osure			
	Not Applicable					
	Update Frequency:	Quarterly	Last Updated:	31 March 2017		

Principle 23 – Disclosure of Rules, Key Procedures and Market Data

				Requir	eme	ent		
23.1	Average daily volumes and notional values of new trades cleared, by instrument/asset class, by currency, and split by OTC or exchange-traded							
	[Refer to the explanatory note at the end of this document for additional details]							
	Disclosure							
	based on	the novated settlemen	•	s with a settlement d		due in the reporting quarte	ments the metrics below are r.	
	Exchar	nge Traded Instrument		Volume (k)		Value (m)		
	Equitie	25		927.5	,	3,822.6		
	Structu	ured Products		0.1		6.2		
	Interes	st Rate Hybrid		0.0)	7.3		
	Exchar	nge Traded Funds		2.1		51.2		
	Austra	lian Government Bonds	;	0.0)	0.4		
	Compa	any Options		0.0)	1.0		
	Exchar	nge Traded Options		407.9)	78.2		
	Non - E	Exchange Traded Instru	ment	Volume		Value (m)		
	Equity	отс		0.0)	0.0		
		Update Frequency:	C	Quarterly		Last Updated:	31 March 2017	

Requirement

23.2 Gross notional outstanding/total settlement value of novated but not-yet settled securities transactions per instrument/asset class and currency and split by OTC or exchange-traded

[Refer to the explanatory note at the end of this document for additional details]

Disclosure

The metrics below are based on the novated settlement instructions with a settlement date during the quarter.

Equities	8,878.20	
Structured Products	9.7	
Interest Rate Hybrid	12.3	
Exchange Traded Funds	134.2	
Australian Government Bonds	0.2	
Company Options	1.5	

<u> </u>		Requirement		4 6		
Average daily volumes and notional contract values submitted by each execution facility or matching/confirmation venue						
[Refer to the explanatory note at the end of this document for additional details]						
Disclosure						
For Exchange Traded Options the metrics are based on number of trades. Execution Facility Cash Market Exchange Traded Options Execution Facility Cash Market Cash Market Exchange Traded Options Exchange Traded Options Average Daily Volume (k) Average Daily Value (m) Average Daily Volume (k) Average Daily Value (m)						
ASX Trade	927.5	3,822.6	407.9	78.2		
-	Refer to the explanat For Cash Market the n and 30-Sep-16. For Exchange Traded (Execution Facility	Refer to the explanatory note at the end of this For Cash Market the metrics below are based or and 30-Sep-16. For Exchange Traded Options the metrics are ba Execution Facility Cash Market Average Daily Volume (k)	Refer to the explanatory note at the end of this document for additional Disclosure For Cash Market the metrics below are based on the novated settlement and 30-Sep-16. For Exchange Traded Options the metrics are based on number of trades. Execution Facility Cash Market Average Daily Volume (k)	Refer to the explanatory note at the end of this document for additional details] Disclosure For Cash Market the metrics below are based on the novated settlement instructions with a settlement and 30-Sep-16. For Exchange Traded Options the metrics are based on number of trades. Execution Facility Cash Market Average Daily Volume (k) Cash Market Average Daily Volume (k) Cash Market Average Daily Volume (k)		

Principle by Principle Notes

Below are the principle by principle notes provided as part of the Public Quantitative Disclosure Standards for Central Counterparties

Principle 4: Credit risk

Item 4.1: This item seeks disclosure of default resources that are available to cover a member default should the margin or equivalent (for example sums paid in by participants to cover their options liabilities) paid by participants to cover their own liabilities to the CCP prove insufficient.

4.1(a)(i) should be identical to DFCCP as defined in BCBS 282.4 Where the CCP's own capital forms part of the default waterfall and potentially covers multiple clearing services with separate segregated default funds, the CCP will have to allocate its capital contribution to each of the segregated funds in proportion to the respective product-specific exposure at default in line with BCBS 282.

4.1(a)(ii) should be identical to DFCM as defined in BCBS 282.

Where commitments in section 4.1(b) are unlimited, state that these are unlimited. Commitments that are reserved to replenish the CCP's own capital or equity should not be included here, i.e. 4.1(b)(ii) and 4.1(b)(iii) seek disclosure of commitments to replenish the CCP's default fund, not the CCP's own capital or equity. Rules-based agreements to accept variation margin or other gains-based haircuts should not be disclosed as commitments, but CCPs should disclose details of such arrangements in line with the guidance on recovery planning (see CPMI-IOSCO *Recovery of financial market infrastructures*, October 2014).

Item 4.2: For a definition of KCCP, see BCBS 282. KCCP may be reported more frequently than quarterly if a CCP is required, under relevant law, to report it to supervisors of clearing members more frequently than quarterly.

Item 4.3: Disclosures should be based on the form in which default resources are held, not the form in which they were paid to the CCP. This item requests disclosures 'as at quarter end'. If a CCP does not consider the composition of collateral at quarter end to be representative, it is encouraged to provide explanatory notes outlining why this is the case, and to provide additional metrics such as quarterly averages, or maximums, minimums, and interquartile ranges. CCPs are also encouraged to disclose any limits on the amount of collateral of a particular type that the CCP will accept if this will assist in enabling a clear understanding of risks. For CCPs which do not specifically record whether asset holdings correspond to default fund contributions (whether provide dby CCP participants or from the CCP's own funds) or to margin provided by participants, the CCP should provide an explanatory note to this effect, and explain its methodology for describing the form in which default fund contributions are held (for example by assuming the proportion of each asset accounted for by default fund is pro-rata to the proportion of total funding that comes from default fund contributions.

Item 4.4: This item is where the results of a CCP's stress-testing of its financial resources are expected to be disclosed. CCPs should specify in their supporting comments to the matrix whether they are subject to a "Cover 1" or "Cover 2" requirement in relation to their total pre-funded default resources, but should report both results so that both Cover 1 and Cover 2 metrics can be compared with actual default resources. These disclosures create no new regulatory obligation for CCPs subject to a Cover 1 requirement to also satisfy a Cover 2 requirement. The disclosures instead aim to support transparency between the CCP and its participants on how safety and efficiency considerations have been balanced in response to different stress scenarios and the decisions that have been made with regard to default fund coverage. Where a CCP is only required to meet a Cover 1 standard, providing disclosure also on its estimated cover 2 requirement may facilitate additional comparisons across CCPs. Nevertheless, because of certain factors, including the size of the market the CCP serves, the CCP's share of that market, and whether a small number of participants account for a disproportionate amount of the CCP's clearing activity, comparison between cover 1 and cover 2 metrics alone

will still give an incomplete comparison of relative default fund coverage. Accordingly, CCPs should provide a comparison with default resources – as in item 4.3, market share data – in accordance with part 23 of the matrix, and other clarifying remarks, as appropriate, alongside their disclosure related to Cover 1 and Cover 2 metrics to further help the reader understand the default fund coverage.

In order to aid clearing members' modelling of their exposures to the CCP, the CCP should consider disclosing further information on its default fund stress-testing methodology (e.g. underlying model parameters and assumptions) insofar as the CCP, in discussion with its participants and regulators, agrees is appropriate without providing confidential information about individual participant positions.

Principle 5: Collateral

Item 5.1: CCPs are encouraged to explain where concentration limits or charges are also applied in addition to normal haircuts. Recognising that the CCP is requested to disclose changes to haircut values as they are applied, where CCPs already publish information on haircuts elsewhere on their public website, a link to the relevant pages will satisfy the disclosure expectation.

Item 5.3: CCPs should consider adding explanatory notes if this would help to understand reasons why the fall in value of assets exceeded haircuts.

Principle 6: Margin

Separate disclosures should be made for each clearing service in respect of items 6.1, 6.2, and 6.5, and each margin model used in that clearing service in respect of 6.3 and 6.4. Disclosures should be on the basis of the form in which the margin is held by the CCP rather than the form in which it was provided by the participants (if different).

Item 6.1: In this item, CCPs should report initial margin *required* – at least at the level of each clearing service. CPMI and IOSCO acknowledge that practices for calculating initial margin requirements vary across CCPs, and propose that CCPs include all types of margin including 'base-line' initial margin; 'add-ons'; and 'retained MTM/VM' (where relevant). Items included under 'add-ons' should reflect any additions to margin required from base-line initial margin and routine scheduled collections – e.g. margin requested to cover specific risks (including, but not limited to liquidity risk, concentration risk, correlation risk, wrong-way risk) where these risks are not covered in the base-line calculation or margin requested on a 'non-routine' basis (e.g. ad-hoc intraday calls). Where add-ons to baseline initial margin are significant and variable, CCPs are encouraged to provide an explanatory note to this effect. CCPs are also encouraged to provide an explanatory note on the expiration period of products they clear where this would help to facilitate interpretation of the margin data, e.g. because margin is returned on or following particular contract expiration dates.

Item 6.2: Disclosures under this item should reflect the total value of initial margin actually **posted** by direct and indirect members and held by the CCP (as opposed to item 6.1, which asks for the total value of initial margin **required**). This should include initial margin provided through a security interest as well as through title transfer. For CCPs which do not specifically record whether asset holdings correspond to margin or default fund contributions fund (whether provided by CCP participants or from the CCP's own funds), the CCP should provide an explanatory note to this effect, and explain its methodology for describing the form in which margin is held (for example by assuming the proportion of each asset accounted for by margin is pro-rata to the proportion of total funding from margin contributions).

Items 6.1 and 6.2: If a CCP does not consider disclosures at quarter end to be representative, it is encouraged to provide explanatory notes outlining why this is the case, and to provide additional metrics such as quarterly averages, or maximums, minimums, and interquartile ranges.

Items 6.3 and 6.4: CPMI and IOSCO recognise that models and approaches to margining may vary across CCPs. In order to help participants understand how they might be affected by margin calls, and/or where the items listed are not specifically relevant for a CCP, other key assumptions and parameters should be disclosed and the items listed should be used as a guide to the types of disclosures and level of details that is expected regarding initial margin assumptions and parameters.

Item 6.5: At a minimum, CCPs are expected to disclose the achieved margin coverage ratio for each clearing service and margin model and the value of any uncovered exposures.

Item 6.6: This disclosure is seeking information on the potential liquidity impact of changes in marked to- market values. It is not seeking to provide information on changes in the level of initial margin that may be related to changes in the volatility of prices. CCPs are expected to disclose the total of variation margin called from participants each day (including for options CCPs, where variation margin is called but not paid out).

Principle 7: Liquidity Risk

'Relevant currencies' refers to currencies in which the CCP is obliged to make pay-outs. If the CCP considers disclosures for 7.1 and 7.2 "as at quarter end" to be unrepresentative, it is encouraged to provide explanatory notes outlining why this is the case, and to provide additional metrics such as quarterly averages, or maximums, minimums, and interquartile ranges.

Items 7.1 and 7.2: CCPs should refer to paragraphs 3.7.10 and 3.7.11 of the PFMI for a definition of 'qualifying liquid resources' and 'supplementary liquidity risk resources'. CCPs are not asked to disclose the names of providers of liquidity resources or investment counterparties. CCPs should not double count assets: for example, assets should not be listed as qualifying under 7.1(e) to the extent that they are required to offer to liquidity providers under 7.1(c). CCPs should add explanatory notes to describe how the CCP decides which payment obligations to prioritize if a schedule does not exist or if otherwise this would help to understand the CCP's procedures.

Item 7.3: This item requests high-level disclosure of the results of a CCP's stress-testing of its liquid resources, both in aggregate and by currency.

Principle 12: Exchange-of-value settlement systems

Items 12.1 and 12.2: The requested percentages refer only to exchange-of-value settlements to which the CCP is a counterparty, and not, for example, to settlement of variation margin payment obligations, or collection and return of initial margin. Gross and net settlement models may qualify as DvP, PvP or DvD, providing that the final settlement of one leg of the exchange occurs if and only if the final settlement of the other leg also occurs.

Principle 13: Default rules and procedures

Item 13.1: CCPs should disclose quantitative information related to defaults as soon as is practicable, subject to constraints on disclosure such as ongoing legal cases.

Principle 14: Segregation and portability

Item 14.1: Disclosures under item 14.1 give quantitative data on the degree of segregation of client assets. Although some CCPs may be unable to disclose particular items (e.g. CCPs may not know the number of clients covered by omnibus accounts), CCPs should complete this item with as much information as is available. For clearing services where fewer than five clients have individually segregated accounts, the CCP should not disclose information on individually segregated accounts.

Principle 15: General business risk

A CCP that discloses these items in a publicly available annual report would meet this standard, but should also include the data in the quantitative disclosure report so that it is readily available in a single place. This information may be disclosed at the level of the legal entity for which published accounts are prepared, even if clearing services are only one part of the entity's activities. The CCP should note the legal entity or activity to which the disclosure relates. The disclosure may be made at the same time as the annual accounts are released.

Item 15.1: The PFMI states that a CCP should hold liquid net assets funded by equity (such as common stock, disclosed reserves, or retained earnings) so that it can continue operations and services as a going concern if it incurs general business losses. Under this item a CCP should disclose the amount of liquid net assets funded by equity which can absorb general business losses. This should, at a minimum, equal at least six months of current operating expenses in accordance with Principle 15. The CCP should not include in its disclosure for 15.1(a) such amount of its own capital as must be allocated or held for other purposes, such as "skin in the game" in the default waterfall, and is not therefore available to cover business risks.

Principle 16: Custody and investment risks

Items 16.1 to 16.3: These items request disclosures 'as at quarter end'. If a CCP does not consider the composition of its investment portfolio at quarter end to be representative, it is encouraged to provide explanatory notes outlining why this is the case, and to provide additional metrics such as quarterly averages, or maximums, minimums, and interquartile ranges. This disclosure looks at the reinvestment of cash received from participants, and not at how the CCP's own funds are held. If, however, participant cash is co-mingled with the CCP's own funds in the investment portfolio, the CCP should clarify how this is reflected in the data published to satisfy this disclosure, for example by specifying the proportion of the investment portfolio that is funded from the CCP's own funds.

Principle 17: Operational risk

Items 17.1, 17.2, 17.3 and 17.4: Core systems used in clearing are those that enable the acceptance and novation of trades, and enable the calculation of margin and settlement obligations. An incident that results in an interruption to the CCP's ability to perform its own functions in relation to trade acceptance and novation, or calculation of margin and settlement obligations is considered a loss of availability. An incident that compromises the CCP's ability to correctly perform the aforementioned functions is also considered a loss of availability, even if there is no actual outage. Successful failover to a back-up site without interruption to services would not count as a loss of availability. CCPs should make clear to which system or systems performance targets apply.

Principle 18: Access and participation

Item 18.1: It is assumed for the purposes of this disclosure that participants would be the legal entities with which the CCP has a counterparty relationship as a clearing member – CCPs should specify if they are using some other basis to define number of participants. Disclosures in this section would not therefore extend to clients. CCPs should report 'category of membership' as relevant to their business. Where relevant, CCPs should differentiate between clearing members that clear their own trades through a CCP and also offer access to the CCP to their clients (often referred to as 'general clearing members') and clearing members that only clear their own trades (often referred to as 'direct clearing members').

Item 18.2: Percentage of net open positions should be the percentage of gross notional for derivatives or the total cleared value for securities transactions or similar.

Items 18.2 to 18.4: For clearing services with fewer than ten members, this report does not make a disclosure recommendation.

Principle 19: Tiered participation arrangements

Item 19.1: For clearing services with fewer than ten members, this report does not make a disclosure recommendation.

Principle 20: FMI links

Items 20.1 to 20.5: These disclosures refer to arrangements in which trades clear over an interoperable link between CCPs, because clearing members are from different CCPs. CCPs should identify each link and cross-margining arrangement in their supporting comments so that quantitative disclosures can be tied to a specific link.

Items 20.2, 20.3, 20.5, 20.6 and 20.7(b): These items request disclosures 'as at quarter end'. If a CCP does not consider disclosures at quarter end to be representative, it is encouraged to provide explanatory notes outlining why this is the case, and to provide additional metrics such as quarterly averages, or maximums, minimums, and interquartile ranges.

Principle 23: Disclosure of rules, key procedures, and market data

Item 23.1 and 23.2: This item is intended to capture the daily *flow* of clearing activity, while item 23.2 is intended to capture the stock of novated trades that have not yet been settled.

Item 23.3: This information is to be disclosed to facilitate an understanding of which markets might be affected by a CCP being unable to clear. This information should only be provided where the relevant execution facility is content for the CCP to disclose.

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