		iwaps and Derivatives Association, In	nc. Derivatives Clearing Models		
15DA Markets	Cl Membership	AE FCM Client Clearing	SwapClear Member	LCH SwapClear Clearing Client	FCM Client Clearing (SwapClear)
Description	CME permits clearing members to clear proprietary transactions, and if the clearing member is registered as an FCM, client transactions.	CME permits FCM clearing members to clear client transactions.	LCH permits SwapClear Members to clear proprietary trades and client transactions of SwapClear Clearing Clients. <u>LCH</u> <u>Procedures. Section 2C. SwapClear</u>	LCH permits SwapClear Clearing Clients to clear transactions through a SwapClear Member. <u>ICH Procedures</u> . Section 27. SwapClear Clearing Service. Sections 1.3.1	LCH permits FCM Clients to clear transactions through an FCM Clearing Member. FCM Procedures. Section 2.1.3.
	The clearing member is deemed to be a principal for its proprietary transactions. <u>CME Rulebook, Rule 8F005.</u> Please See Column C for information on client transactions.	The clearing member is deemed to be a guarantor and agent to the transactions cleared for its clients: <u>CME Rulebook, Rule</u> <u>8F005</u> .	Clearing Service. Sections 1.1 and 1.22. The cleared transaction is between the SwapClear Member and LCH as principals. Please See Column E for information on client transactions.	and 1.3.2. The cleared transaction is between the SwapClear Member and CLH as principals, with the SwapClear Member and SwapClear Clearing Client entering into a back-to-back transaction.	The FCM Clearing Member acts as agent for its FCM Clients and is responsible for all obligations in connection with the transactions of its FCM Clients. FCM Regulations, Regulation 2.
Direct/Indirect (i.e., whether pre- novation counterparties are in privity	Direct	Indirect	Direct	Indirect	Indirect
with the (CP)	The clearing member submits data to CME for novation. <u>CME Rulebook, Rulev</u> <u>BOA</u> .	The clearing member submits data to CME for novation: <u>CME fluibook fluites</u> <u>BOL</u>	Sang/Sar Mamber submit tonsocione to LL for regionation ² via an Approved <u>Reparations Section 1241 (CI</u> <u>Procedures Section 1341</u> Classing Section 334	SougClay Claring Clarits submit transactions to LCH for "registration" via an Approved Training Source System: <u>General Registrations Section 1311</u> Claring Service. Section 1311	For venue-executed transactions, FCM Clente execute the trades on the platform which will be strammitted to ECM for "registration" via an "FCM Approved Trade Source System". For off wenue transactions, FCM Clents execute the trades to Statemark y and such trades to LCM through an via an "FCM Approved Trade Source System". Upon FCM Clearing Member's continuation following conditication form LCM executive trades will be registrate.
Mechanics of postbag/recolong daily magin/payments	CdE and the charing member suchange settlement variation payments (equivalent to Varia de Stefanent payment), ad CdE calorites part-member ad CdE calorites parts of transactions in the charing member?, paymentary account on the basic <u>CdE</u> <u>bulenous</u> , hans 114, 825.	Coll and the obsaring pointies reachings institutes that the pointies of the pointies of the point of the one of the point of the one of the point of the one of the the the the one of the the the the one of the the one of the the one of the the one of the the the one of the the the one of the t	Margin for a SungClas Member's propriate trades calculated on a set basis arous at propriety account. In the International Account of the International Calculations, Section 3.7, SanaChar Calculations, Section 3.7,	LO cellects initial margin and variation margin from the SavyClear Memory on a thoras its positional within a "Grass that the strain of the savy Clear and the savyClear and the savy Clear and savy SavyClear and the savy Clear and savy SavyClear and the savy Clear savyClear and the savy Clear and the savyClear and the savy Clear and savyClear and the savy Clear and the savy Clear and the savy Clear and the savy Clear and the savy Clear and savyClear and	LOI obtait auclion margin (saled The State of the State of the State of the State Instance of COLONG of the same basis across positions of the same state of the State of the State of the same account is the real occurs instances: <u>You</u>
Legal counterparty Entity to whom CCP has recourse	Clearing Member Clearing Member	Clearing Member as agent for the FCM Client Clearing Member	Clearing Member	Clearing Member	Clearing Member as agent for the FCM Client Clearing Member
Liability/obligations of intermediary (if applicable)	N/A	The clearing member is guarantor and responsible for its clients' transactions	N/A	SwapClear Member is responsible for all obligations owed to LCH with respect to the transactions of its SwapClear clients. <u>General Regulations, Regulation 10(a);</u> <u>Regulation 16(f).</u>	FCM Clearing Member is responsible for all obligations owed to LCH with respect to the transactions of its FCM Clients. FCM Regulations, Regulation 9(c).
Available for done away transactions (i.e., whether a customer can clear trades executed with a person other than its clearing memberi?	Yes	Yes	N/A	Yes	Yes
Obligations to default fund/clearing fund – who bears these, how are they calculated, how are they segregated and what is at risk?	The clearing member bears responsivity for posting Guaranty Fund in respect of all of its obligations to CME, which are calculated separately for interest rate swaps and other transactions. Guaranty Fund contributions are not segregated and available for loss mutualization. <u>CME</u> <u>Bulebools. Bule B16</u> .	The clearing member bears responsibility for positing Guaranty Fund in respect of client transactions, which are calculated separately for interest rate swaps and other transactions. Guaranty Fund contributions are not segregated and available for loss mutualization. <u>CME</u> <u>Rulebook. Rule B16</u> .	SwapClear Member bears Default Fund obligation. <u>Default Rules: Schoulde F. Part & Section S1.</u> The default fund calculation papers to be on the basis of all contracts cleared by the SwapClear Member.	SwapClear Member bears Default Fund obligation. <u>Default Rules</u> . Schedule R. Part <u>A. Section S1</u> . The default fund calculation geparis to be on the basis of all contracts cleared by the SwapClear Member.	FCM Clearing Member bears Default Fund obligation. <u>Default Rules Schedule 6. Part</u> A. <u>Section SL.</u> The default fund calculation appears to be on the basis of all contracts cleared by the FCM Clearing Member.
Where is collateral held by the CCP?	CME states that collateral is maintained at the Federal Reserve Bank of Chcape, the Bank of Canado, Commercial banks, description of the Chape of the Chape requires that commercial banks and collateral cutodianis provide segregation latters unright part they adhere to bank categories that commercial banks and content cutodianis provide segregation tests unright part they adhere to bank categories (Chaper Schuler, Chaper Schuler, Chaper Schuler, Chaper Schuler, Chaper Schuler, disarring members, et al. banksoid, they <u>B25</u>	CME states that collateral is maintained at the forder litesarve libard of Chcago, the basis of Canado, the basis of Canado and the collateral dominical is the U.S., and that CAER requires that Camerocal basis and collateral custodiane provide segregation laters verying that they ashive to bar Cattoriane funds. <u>FMM as 105-105</u> CMM spages to have rehypothecation rights with respect to collateral pload by Causing members. <u>Coll International Burg</u>	LOI states that is holds collistent at exercise depositions, and exercise those are not available, cardioan banks. LOI separate those rehypotheration rights with respect to collateral posted by clearing members.	LOI states that is holds coluteral at central securitic dispositions, and want those are not available, curstoan banks. UCS appears to have rehypotheration rights with respect to collisteral posted by clearing members.	LOI states that is holds colluteral at central lacentics depositories, and where those are not available, cardioan banks. LOI separate the new rehypotheration rights with respect to collateral posted by clearing members.
How is Initial margin (or similar) suppripted?	A chang member's proprietary performance bood is had in a suparate boot. <u>PMN, p. 96-97, CMI facebook</u> . <u>Boot. PMN, p. 96-97, CMI facebook</u> . <u>Bold 930</u> .	A customer's position: and performance band an legally suggester from the course memory single start position course and the second start position performance boots for futures is separate to be analysis from the date of defer coursement of boots and the second start of defer coursement of boots and the second start of defer second to second start of the second start sequent business the second start of the second start second start of the second start second start of the second start second start second start of the second start second start of the second start second start second start of the second start second start second start second start start second start second start second start second start second start s	A Saughtar Meshari yangkitary politika sa mangina re kidi na Membri di deri politika wa kangkar Membri di deri politika sa di kidi sa Mengri Li Di tangkar saka sa Bagdow Seras Settemi 1 J and 1 S.	A SwepClass Clearing Client's positions and initia margin are keplin appropriat positional and the second second second second second second second second second second second second second second second second Second Second Second Second Second Second Respective Meeting Field Second Seco	An FCA Clerc's position and margin are highly appreciation in the FFOS and angenesis of the FFOS and the FFOS and angenesis of the FFOS and the FFOS and angenesis of the filter cancel on the filter proceeding the FFOS and the FFOS and Proceedings Section 2.3 Mills.
Default management obligations (i.e., loss allocation/liquidity obligations) – who has these, what are they?	Clearing members have loss mutualization obligations. OMF requires clearing members to organish Guaranth Fund II used in default management process. Clearing Members may also be subject to protition and inducting and tear-up of positions. <u>CME Built, Builts BO2 B 7 and BGB02 B 2, B02 B 8 and BGB02 B 3.</u>	Only Clearing members have loss mutualization obligations. Customer transactions may be subject to portfolio gains haircutting and tear-up. <u>CME Rule</u> , <u>Rules 802.8.2</u> , and <u>B020.8.2</u> , R02.8.8 and <u>80802.8.3</u> .	SwapClear Member has loss mutualization obligations, which covers both assessments and replenishment of the debuilt fund. In addition, LCH may apply variation margin hairouts, and require tour-ups. <u>Default Hules, Schodule</u> <u>2. Rates Service DMP Annes, Schodule 6, Rates Service</u> <u>Default Rules, Schedule 6, Rates Service</u> <u>Default Fund Supplement.</u>	SwapClear Member has loss mutualization obligations, which covers both assessments and replenishment of the default fund, in addition, LCH may apply variation margin haircuts, and require tour-ups. <u>Default Hules, schodule</u> <u>2. Rates Service DMP Annes, Section 1.4;</u> <u>Default Rules, Schedule 6; Rates Service</u> <u>Default Fund Supplement.</u>	FOM Clearing Member has loss mutualization deligitions, which covers both assessment and regenishment of the default fund, in addition, LCH may require auction participation, apply variation margin hairots, and require tar unp. <u>Data Huss, Scholder 2</u> , <u>Datas</u> <u>Service OMP Annes, Section 1-4</u> , <u>Ordant</u> <u>Rules, Scholder, Extes Service Default</u> <u>Fund Supplement.</u>
Treatment of clients upon intermediary default (if applicable)	N/A	Upon a clearing member's detail, OM may immediately transfer container position and associated performance of observations and associated performance that have a start of the container positions. That have have a start of the start of the start have been detailed associated performance accelerate chain for its mergin and accelerate chain for a start of the start Basenoptry Code.	N/A	Chi will seek to auction the portfolio, or a portion of the particles, or the sample of portfolio of the particles, or the sample of the portfolio of the particles of the particle of the particle of the particles of the particle of sample of the particle of the particle of particles of the particle of the particle of the particle of the sample of the particles of the particles of the particles of the the particles of the the sample of the particles of the particle	CPI will seek to acction the portfolio, or a portion of the portfolio, of the COM Meetings (Configuration of the Company) of the Meetings (Configuration of the Company) of the Meeting (Configuration of the Company) of the Meeting of the Company of the Meeting of the Company of the Meeting of the Company of the Meeting of the Meeting of the Company of the Meeting of the
Obligations of intermediary if client defaults (if applicable)	NA	The clearing member is guarantor for all obligations to CME in respect of trades submitted on behalf of clients. There is no CME rule permitting a clearing member to terminate novated trades that were submitted on behalf of a client upon the client's default.	N/A	If the SwapClear Member determines that an early termination date has occurred with respect to a client transaction, it may instruct LCH to transfer the relevant contract to its proprietary account. <u>Procedures, Section 2C, SwapClear, Service, Section 1.13.1.</u>	If the FCM Clearing Member determines that a default has occurred with respect to a client transaction, it may instruct LCH to transfer the relevant contract to its proprietary account. FCM Procedures. Section 2.1.13.
Whether there is industry or ad hoc opinion available to address netting against U.S. Customers for U.S.	Yes	Yes	Yes	Yes	Yes
Regulatory Capital purposes	This information contained in this chart is	high level summary based on nublicly avail	lable information and doruments of releva	nt clearinghouses, does not address any r	multions considements (except to the

The information contained in this circuit high here's commany based on publicly available information and documents of relevant clearinghouses, does not address any regulatory requirements (accept to be calcert reflected in the relevant and documents and documents of relevant clearinghouses, does not address any regulatory requirements (accept to be calcert reflected in the relevant and documents with respect to their rights and deligations in connection with any clearing model, including with respect to their rights in the event of an incubency of a intermediary clearing member.