Outlines Related to Expansion of Cross Margining Covered Trades and Others in IRS Clearing Service

Nov 2, 2023 Japan Securities Clearing Corporation

I. Purpose

JSCC puts in place required frameworks in its IRS Clearing Service, such as an addition of 3-Month TONA Futures Contracts to the cross margining covered trades for an enhancement of collateral burden reduction effect and arrangements for a reduction of rejections of clearing requests and a reduction of collateral operation burdens.

II. Outline

II. Outline Item	Description	Remarks
Cross Margining with Interest Rate Futures Contracts (1) Addition of Cross Margining Covered Trades		· Cross margining is a framework of offsetting risks across silos for a reduction of collateral burden.
(2) Cross Margining Covered Trades i) Eligible Trades to be Added	 The Interest Rate Futures Contracts to be added to the cross margining covered trades are the JSCC-designated contract months of the Interest Rate Futures Contracts JSCC clears. 	 Currently, the cross margining covered trades are IRS and the 1st and 2nd contract months of JGB Futures Contracts, both physical settlement futures contracts and cash settlement futures contracts, JSCC clears.
ii) Types of Margin Covered	 Margins subject to the cross margining are Initial Margin and Intraday Margin related to IRS positions, and the margin related to the positions in JGB Futures Contracts and Interest Rate Futures Contracts. 	• In the same manner as the current framework, the Variation Margin for IRS positions and VM for the positions in JGB Futures Contracts and Interest Rate Futures Contracts will not be covered under the cross margining.

Item	Description	Remarks
		• In the same manner as the current framework, the Intraday Margin requirement will be obtained by adding/subtracting the recalculated Variation Margin equivalent for the IRS position of each IRS Clearing Participant obtained by using the latest market data to/from the recalculated Initial Margin equivalent obtained by using the latest market data for the positions in IRS and the cross margined JGB Futures Contracts and Interest Rate Futures Contracts of the relevant IRS Clearing Participant as of noon each business day.
iii) Scope of Users	• An IRS Clearing Participant or Customer (either Affiliate or Client; the same applies hereinafter) which trades in Interest Rate Futures Contracts as a JGB Futures Clearing Participant or as a person who trades in futures through a JGB Futures Clearing Participant in the same corporate group will be eligible as the cross margining user.	 Same as the scope of the users of the cross margining with JGB Futures Contracts under the current framework. See Annex 1 for the illustration of the expected utilization cases.
(3) Cross Margining Request and Acceptance, Handling of Notifications/Reports of Cross Margined Interest Rate Futures Contracts	 A request for cross margining with Interest Rate Futures Contracts may be submitted by the date that is 2 business days preceding the last trading day. As to the position related to Interest Rate Futures Contracts for which cross margining is requested and accepted, neither position transfer request nor correction reporting, such as the close-out quantity report, is accepted. 	Otherwise, the rules related to the notification of using cross margining and the cross margining request/acceptance are the same as the current framework.
(4) Initial Margin Calculation Method		

Item	Description	Remarks
i) Base IM	· Generate scenarios based on the market data fluctuations during	· Yield curves related to Interest Rate Futures
	past 1,250 days (reference period) with respect to the position of	Contracts and whether or not the Convexity
	each IRS Clearing Participant and the position related to the cross	adjustment would be required to derive the
	margined JGB Futures Contracts and Interest Rate Futures	scenarios for the period before listing of Interest
	Contracts as of 4:00 p.m. on each business day, and stress event	Rate Futures Contracts and the adjustment
	scenarios based on historical market events. Then, obtain NPV	method will be the subject of the continued
	fluctuations when moving today's market data based on each	study.
	scenario. Required Initial Margin before add-on shall be the amount	· For the cross margined Interest Rate Futures
	to cover average of worst 1% of such NPV fluctuations.	Contracts, JSCC generates the historical
		scenarios based on the fluctuations in the
		settlement price of that product.
		• The historical scenarios for the period before the
		listing of Interest Rate Futures Contracts are
		generated by obtaining theoretical price of the
		Interest Rate Futures Contracts from TONA-OIS
		yield curve.
		· As market fluctuation value of Interest Rate
		Futures Contracts for stress event scenarios, the
		settlement prices derived from TONA-OIS will
		be used for the period before the listing, and
		actual settlement prices will be used after the
		listing.
		· The stress event scenarios are reviewed
		quarterly. JSCC will consider, in the quarterly
		review process after the launch, whether or not
		JSCC would add any new stress scenario for
		Interest Rate Futures Contracts.

Item	Description	Remarks
ii) Liquidity Charge	• The framework of the calculation of the liquidity charge related to	· JSCC expects to obtain PV01 (risk amount) by
	the cross margined Interest Rate Futures Contracts will be the same	using the yield curve structured based on the
	as the current liquidity charge framework for IRS, wherein the	settlement prices related to Interest Rate Futures
	liquidity charge will be obtained against the basis risk between the	Contracts.
	yield curve related to Interest Rate Futures Contracts and TONA-	JSCC considers risk offset between tenors in the
	OIS.	same manner as the current framework. As the
		correlation coefficient between tenors, daily
		fluctuations of the basis between Interest Rate
		Futures curve and TONA-OIS curve for 6
		months (125 business days) and the correlation
		coefficient at 24 points in time in the past when
		the correlation fluctuated significantly shall be
		considered. However, JSCC will use the
		correlation coefficient related to the daily
		fluctuations of TONA-OIS curve for the period
		before the listing of Interest Rate Futures
		Contracts because basis between Interest Rate
		Futures Contracts and TONA-OIS cannot be
		observed.
		• The specific dates of the 24 points in time in the
		past when the correlation fluctuated
		significantly will be designated by JSCC in a
		public notice. Such dates are subject to change
		as necessary in the course of quarterly review
		process.
(5) Clearing Fund Calculation	For the IRS Clearing Fund requirement calculation, Expected	• Follows the current framework.
Method	Stressed Loss Share will be obtained by i) obtaining the Risk	• For the market fluctuation value of Interest Rate

Item	Description	Remarks
	Amount Exceeding Collateral, including cross margined JGB	Futures Contracts in the stress scenarios, the
	Futures Contracts and Interest Rate Futures Contracts positions, and	value of the interest rate fluctuations in TONA-
	ii) prorating the sum total of such Risk Amount Exceeding	OIS yield curve will be used for the period
	Collateral for the top 2 Clearing Participants according to the Initial	before the listing, and the value of the interest
	Margin requirement, excluding add-ons according to the Net	rate fluctuations in Interest Rate Futures
	Capital and credit standing, of each Clearing Participant.	Contracts yield curve will be used after the
		listing.
		• In the same manner as the stress event scenarios
		related to Base IM, the above-mentioned stress
		event scenarios will be reviewed in the course of
		quarterly review process after the launch.
(6) Liquidation Scheme of Cross	• Upon default of a cross margining user that is an IRS Clearing	• Follows the current framework.
Margined Portfolio upon Default	Participant, JSCC will promptly grasp the portfolio composition of	· ·
	the relevant cross margining user, i.e., IRS and the cross margined JGB Futures Contracts and Interest Rate Futures Contracts, and	contracts) and Interest Rate Futures Contracts
	take required risk hedge measures. Upon default of a JGB Futures	remaining unliquidated through paired liquidation on the last trading day, the difference obtained
	Clearing Participant requesting cross margining or upon default of	based on the last settlement price will be
	an IRS Clearing Broker accepting the cross margining request, the	paid/received between JSCC.
	cross margining user Clients may transfer their positions related to	• See Annex 2 for the illustration of the default
	IRS and their positions related to the cross margined Interest Rate	settlement scheme related to the Clients'
	Futures Contracts to another Clearing Participant with an advance	position liquidation.
	agreement with such Clearing Participant.	position inquitation.
	agreement with out of country I distributed	
(7) Loss Compensation Framework	• Upon default of a cross margining user, when the amount of loss	The handling described on the left will be
•	related to the position of such cross margining user in JPY	adopted because Interest Rate Futures Contracts
	denominated IRS and the cross margined JGB Futures Contracts	are under the JGB Futures Clearing
	and Interest Rate Futures Contracts is more than the Loss	Qualification.

Item	Description Remarks			
	Compensation Financial Resources up to the 4th priority resources	• See Annex 3 for the specific illustration		
	related to IRS Clearing Service allocated to the JPY denominated	concerning the loss compensation framework.		
	IRS, such excess loss shall be prorated according to the final loss in			
	the JPY denominated IRS and the sum of the final losses related to			
	the cross margined JGB Futures Contracts and Interest Rate Futures			
	Contracts position. Then, the loss amount allocated to the JPY			
	denominated IRS shall be covered by the 5th priority Loss			
	Compensation Financial Resources in IRS Clearing Service, and			
	the loss amount allocated to JGB Futures Contracts and Interest			
	Rate Futures Contracts shall be covered by the cross margining			
	special clearing charge in the JGB Futures Clearing Service.			
(8) Fee	• No fee will be charged for the time being.			
2. Addition of New Criteria related to				
Judgment of Successful Clearing				
upon Clearing of New Trades				
(1) Outline of Treatment	• To reduce number of rejections of the trades submitted for clearing,	• Judgment of successful clearing in the post		
	JSCC clears trades even if the amount sufficient to cover the Margin	clearing process, i.e, Compression and Position		
	Required to Clear related to a Clearing Participant or a Customer	Transfer, is out of the scope of the treatment		
	has not been deposited with JSCC so long as the criteria prescribed	mentioned on the left.		
	by JSCC are met.	• For the clearing to be successful, both parties to		
		the IRS Transaction submitted to JSCC for		
		clearing need to satisfy the Clearing		
		Requirements in the same manner as the current		
		framework.		
(2) Criteria	• The treatment described in 2. (1) shall apply when all of the			

Item	Description	Remarks
	following conditions are met:	
	Notional Amount of the trade submitted for clearing is less	The threshold for the Notional Amount shall be
	than the threshold prescribed by JSCC;	as per "Appendix" for the time being.
		In case of a Package Trade, Notional Amount of
		each trade comprising the Package Trade needs
		to be less than the threshold prescribed by JSCC.
j	i) The amount of shortfall in the Margin Required to Clear of the	• The cap shall be JPY 1 bil. for the time being.
	Clearing Participant submitted the trade for clearing is equal	· In case of a Package Trade, the shortfall in
	to or less than the cap prescribed by JSCC.	Margin Required to Clear considering all trades
	A Clearing Broker may allocate the cap to each Customer	comprising the Package Trade should be equal
	within the amount of cap prescribed by JSCC, and the	to or less than the cap prescribed by JSCC.
	judgment of successful clearing when there is a shortfall in the	On the implementation date, the cap is allocated
	Margin Required to Clear related to a Customer shall be made	entirely to the Clearing Participant's Proprietary
	based on the amount taking into consideration the cap	Account.
	allocated by the Clearing Broker. When there is any change in	When there is a shortfall in the Margin Required
	the cap allocation, it shall apply from the next JSCC Business	to Clear related to a Customer, if Customer
	Day;	Buffer may be allocated to the account of the
		Customer, the Customer Buffer allocation shall
		precede the handling of 2. (1).
i	ii) The margin call for the Intraday Margin requirement and the	
	margin call for the Initial Margin requirement calculated based	
	on the Cleared Contracts as of 7:00 p.m. has been satisfied;	
i	v) The Clearing Participant is not in breach of the "criteria	• In case of a Customer, its Clearing Broker is not
	concerning raising required Initial Margin amount" under	in breach of the "criteria concerning raising
	GUIDELINES CONCERNING CREDIT STANDING OF	required Initial Margin amount."
	CLEARING PARTICIPANTS, ETC. IN IRS CLEARING	
	BUSINESS.	

Item	Description	Remarks
(3) Treatment at Margin Calculation	• The trade cleared according to the treatment of 2. (1) shall be included in the subsequent Intraday Margin and Initial Margin requirement calculations.	
3. Partial Revision of Customer Buffer Framework		
(1) Outline of Revision	 The Customer Buffer framework currently in place will be partially revised from viewpoints of reduction of the collateral operation burden on Clearing Brokers and Customers as well as increase of opportunities of an allocation of Customer Buffer to Customers' Margin shortfall. The revision includes an expansion of the scope of Margin subject to the buffer allocation. 	• The Customer Buffer framework is a framework of allocating the collateral posted by a Clearing Broker in advance (Customer Buffer) in case of a shortfall in a Customer's Margin Required to Clear for the purpose of reduction of number of rejections of clearing requests.
(2) Details of Revision	i) An allocation of Customer Buffer is also allowed in case where the amount sufficient to cover a Customer's Intraday Margin requirement has not been deposited or delivered.	 Under the current framework, Customer Buffer is allocated only when the amount sufficient to cover a Customer's Margin Required to Clear has not been deposited or delivered. An allocation of Customer Buffer when the amount sufficient to cover a Customer's Intraday Margin has not been deposited or delivered to JSCC shall be an option of the Clearing Broker.
	ii) If there is an excess in the allocated Customer Buffer in a Customer Account at the time of Intraday Margin calculation or before the start of the clearing from 5:30 p.m., such excess will be returned to the Clearing Broker's Buffer Account.	

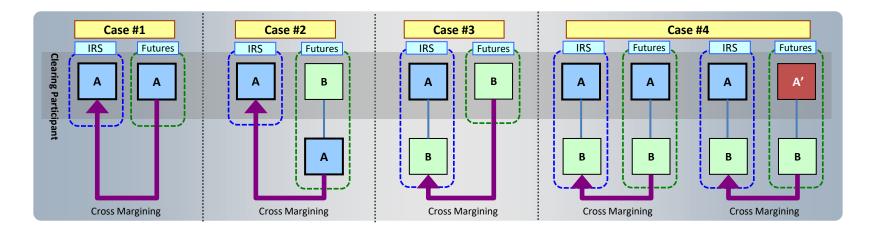
III. Implementation Timing Implementation is aimed at March 4, 2024.

Appendix: Notional Amount Threshold

Rema	ining Numbe	er of Days	Notional Amount
Greater Than		Equal to or Less than	(in JPY 0.1 bil.)
	-	46	6,400
46	-	107 (3 months)	2,100
107 (3 months)	-	198 (6 months)	1,200
198 (6 months)	-	381 (1 year)	1,100
381 (1 year)	-	746 (2 years)	460
746 (2 years)	-	1,842 (5 years)	240
1,842 (5 years)	-	3,668 (10 years)	170
3,668 (10 years)	-	10,973 (30 years)	120
10,973 (30 years)	-	·	67

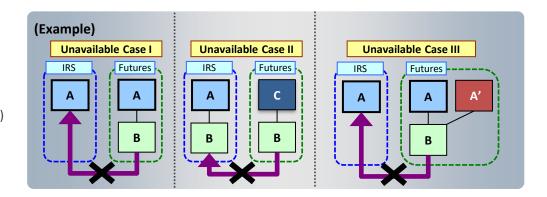
Cases Where Cross Margining is Available

- > Cross margining is available only for positions held by the same entity.
- > For a Customer's position under Case #4 below, cross margining is available on condition that the Clearing Participants and the JGB Futures Clearing Participant are in the same corporate group.

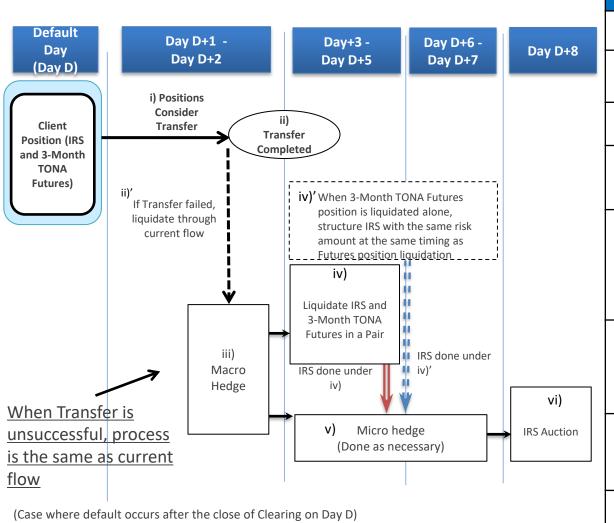


Cases Where Cross Margining is Not Available

- × Cross margining is not available for positions between different entities. (Unavailable Case I).
- × Cross margining request via a Clearing Participant not in the same corporate group (Participant C in the chart on the left) is not allowed. (Unavailable Case II)
- × Cross margining request via multiple brokers is not allowed. (Unavailable Case III)

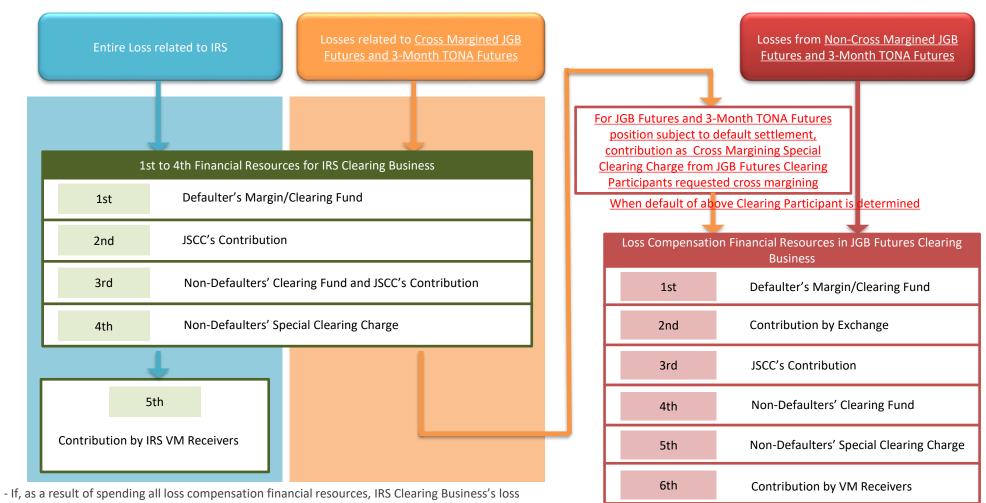


Shown below is the illustration of the Client position liquidation scheme upon default of IRS Clearing Participant that is the Clearing Broker for a cross margining user Client.



	Outlines (Client Position Transfer Process are Underlined)
<u>i)</u>	Consider Client Position Transfer.
<u>ii)</u>	With a consent of transferee, transfer will successfully complete if predetermined conditions are met.
<u>ii)'</u>	If transfer is failed, liquidate position by following the current liquidation flow of cross margined position.
iii)	 DMC will check risk amount of the paired position of IRS and 3-Month TONA Futures subject to liquidation and execute macro hedge.
iv)	 Solicit quotes for a pair of IRS-3 and Month TONA Futures and liquidate position of 3-Month TONA Futures (hedge transaction, closing transaction). (To secure time for liquidation when position cannot be liquidated in a pair, aim to implement this process by Day D+5.)
iv)'	• If 3-Month TONA Futures position remains after iv), liquidate 3-Month TONA Futures position by structuring IRS with the same risk amount at the same timing as the liquidation of 3-Month TONA Futures (offsetting purchase/sale).
٧)	 Execute micro hedge, as necessary, for portfolio comprised only of IRS as a result of iv) and iv)'. (Hedge will be executed in parallel with the process iv) and iv)' depending on a case.)
vi)	Liquidate entire IRS position, including hedge transactions, through IRS auction process.

Waterfall shown below is expected for 3-Month TONA Futures to be newly added to cross margining covered trade, following the current framework.

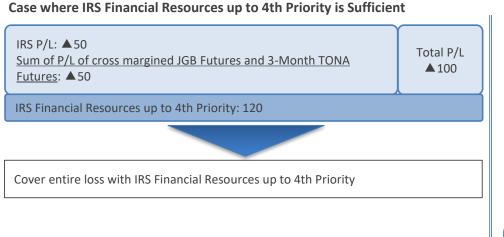


- If, as a result of spending all loss compensation financial resources, IRS Clearing Business's loss compensation financial resources are not sufficient to cover JSCC's expected loss amount, there will be a consultation among JSCC and Clearing Participants for responsive actions, in the same manner as the current framework.

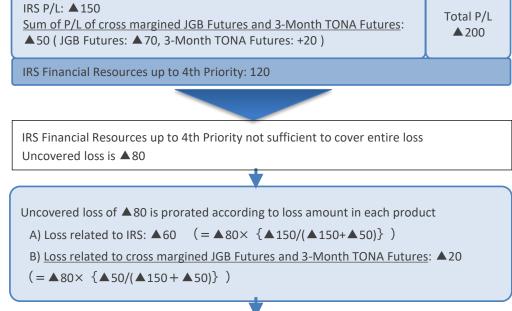
Treatment When Loss Compensation Financial Resources up to 4th Priority are not Sufficient to Cover Loss

Annex3-2

- As mentioned in the previous slide, upon default of a cross margining user, loss arising from liquidation of IRS and cross margined JGB Futures and 3-month TONA Futures will be covered by the loss compensation financial resources up to 4th priority for IRS Clearing Business for which Margin/Clearing Fund commensurate with the cross margined position are deposited. If the loss compensation financial resources up to 4th priority for IRS Clearing Business are not sufficient to cover the loss, remaining loss needs to be allocated to each Clearing Business.
- Allocation of loss exceeding the IRS financial resources up to 4th priority to each Clearing Business will be determined by prorating such loss according to the loss amount in each product. For JGB Futures and 3-Month TONA Futures, sum of P/L for these products will be used because both products are covered under JGB Futures Clearing Qualification.



Case where IRS Financial Resources up to 4th Priority is Not Sufficient



IRS loss A) is covered by 5th priority financial resources for IRS Clearing Business Loss of JGB Futures and 3-Month TONA Futures B) is covered by financial resources for

JGB Futures Clearing Qualification