

September 17, 2015

# BY ELECTRONIC SUBMISSION

Mr. Christopher J. Kirkpatrick Office of the Secretariat Commodity Futures Trading Commission Three Lafayette Centre 1155 21st Street, N.W. Washington, D.C. 20581

# Re: Adjustments to Minimum Block Size (Eris Exchange, LLC Submission #2015-05)

Dear Mr. Kirkpatrick:

Eris Exchange, LLC ("Eris Exchange" or the "Exchange") hereby submits for self-certification to the Commodity Futures Trading Commission (the "Commission"), under Commission regulation 40.6(a), the following amendments to the Eris Exchange Rulebook with regard to the minimum quantity thresholds for block trades executed during Regular Trading Hours (RTH). The changes will become effective on October 1, 2015.

## Explanation and Analysis

The Minimum Block Size for all contracts during RTH is being adjusted to one hundred (100) contracts (or \$10mm notional). The Minimum Block Size for RTH was originally set in 2011 at the inception of the Exchange without the benefit of trading data. Since then, the Exchange has established significant central limit order book trading, accounting for more than 94% of contracts traded year-to-date. The Minimum Block Size is now being lowered in light of block trading activity. The Minimum Block Size during Other Trading Hours (OTH) remains unchanged.

## Description of Rule Changes

Rule 601 (Block Trades) and Rule 1101 (Contract Specifications) have been modified to reflect this change. The Exchange has attached a copy of the amended Rules, including all additions and deletions as Exhibit 1.

#### Core Principle Compliance

Eris Exchange has concluded that its compliance with the DCM Core Principles is not adversely affected by this change, and it will continue to comply with all DCM Core Principles.

The Exchange continues to require reporting of all block trades during RTH within fifteen (15)

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minutes of the transaction for Eris Standards and within fifteen (15) minutes of the transaction, or by 4:35 pm ET, whichever comes first, for Eris Flexes.

All block trades will continue to be published at http://erisfutures.com/block-trades.

#### Public Information

A notice and copy of this submission has been concurrently posted on the Exchange's website at <u>http://erisfutures.com/cftc-submissions</u>.

#### **Opposing Views**

This submission was provided to the Exchange Practices Committee and the Regulatory Oversight Committee, and there were no opposing views expressed that were not incorporated into the rule changes.

#### Certification

Eris Exchange, LLC hereby certifies to the Commodity Futures Trading Commission, pursuant to the procedures set forth in the Commission regulation §40.6, that this submission complies with the Commodity Exchange Act, as amended, and the regulations promulgated thereunder.

In the event that you have questions, please contact me at the information below.

Sincerely,

Laurian Cristea Chief Regulatory Officer, and Head of Legal and Regulatory Affairs <u>laurian.cristea@erisfutures.com</u> T 646.961.4487



# Exhibit 1 Redline and Clean Rulebook Changes

# **RULE 601. Block Trades**

- (a) The Exchange shall designate the products in which block trades shall be permitted and determine the minimum quantity thresholds for such transactions.
- (b) The following shall govern block trades:
  - (1) A block trade must be for a quantity that is at or in excess of the applicable minimum threshold. Orders may not be aggregated in order to achieve the minimum transaction size, except by those entities described in Sections (10) and (11) below and as provided in Rule 601(b)(2).
  - (2) Multi-legged block trades may be executed as block trades, provided that the sum of the legs of the block trade meets the Minimum Block Size for the leg with the shortest Remaining Tenor as provided in Rule 601(c)(1).
  - (3) Each Person to a block trade must be an Eligible Contract Participant.
  - (4) A broker for a Person shall not execute any order by means of a block trade for a Person unless such Person has specified that the order be executed as a block trade.
  - (5) The price at which a block trade is executed must be fair and reasonable in light of (i) the size of the block trade, (ii) the prices and sizes of other transactions in the same contract at the relevant time, (iii) the prices and sizes of transactions in other relevant markets, including without limitation the underlying cash market or related futures markets, at the relevant time, and (iv) the circumstances of the markets or the Participants to the block trade.
  - (6) Block trades shall not set off conditional orders (e.g., Stop Orders and MIT Orders) or otherwise affect orders in the regular market.
  - (7) One of the Persons or the broker of one of the Persons to the block trade must ensure that each block trade is reported to the Exchange within the time limit set forth below:
    - a. Block trades in Eris Standards during RTH must be reported within 15 minutes of the transaction
    - b. Block trades in Eris Flexes during RTH must be reported to the Exchange within 15 minutes of the transaction, or by 4:35 pm ET (whichever comes first).
    - c. All block trades executed during OTH must be reported within the later of fifteen minutes after trade execution or five minutes prior to the next market open.

The Exchange shall promptly publish such information separately from the reports of transactions in the regular market.



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- (8) Reporting Method and Information
  - a. Block trades must be reported to the Exchange by calling the Eris Control Center, through entry into Eris BlockBox, or in accordance with another approved reporting method.
  - b. The block trade report must include the information related to the block trade specified in the Exchange's approved reporting method, including: the identification of parties to the block trade; product details; trade quantity, price, and time; and, Clearing Firm.
- (9) Clearing Firms, Participants, Participant Firms, and Broker Firms involved in the execution of block trades must maintain a record of the transaction in accordance with Rules 401.
- (10) A commodity trading advisor ("CTA") registered or exempt from registration under the Act, including, without limitation, any investment advisor registered or exempt from registration under the Investment Advisors Act of 1940, or principal thereof, shall be the applicable entity for purposes of Sections (1), (3), (4) and (5), provided such advisors have total assets under management exceeding \$25 million and the block trade is suitable for the customers of such advisors.
- (11) A foreign Person performing a similar role or function to a CTA or investment advisor as described in Section 10, or principal thereof, and subject as such to foreign regulation, shall be the applicable entity for purposes of Sections (1), (3), (4) and (5), provided such Persons have total assets under management exceeding \$25 million and the block trade is suitable for the customers of such Persons.
- (c) Products designated for Block Trades.

The following products are designated for block trades:

(1) INTEREST RATE SWAP FUTURES CONTRACTS: For Interest Rate Swap Futures Contracts, the minimum block size is based on Remaining Tenor, defined as the duration of time from the transaction date to the Cash Flow Alignment Date (defined in Rule 1101), of the Contract as follows:

	Minimum Block Size	
Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
Less than 5 years	<u>\$10mm notional</u> <u>100 contracts</u> \$50mm notional <del>500 contracts</del>	\$1.0mm notional 10 contracts
5 years or more	<u>\$10mm notional</u> <u>100 contracts</u> <del>250 contracts</del>	\$0.5mm notional 5 contracts



# CHAPTER 11: CONTRACT SPECIFICATIONS

# **RULE 1101.** Eris Interest Rate Swap Futures Contract Specifications

(a) Flex Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
	<ul> <li>Monday – Friday; 7:00 am to 4:30 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Contract Size	1 Contract = 1 lot = $100,000$ face.		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed Leg       Reset Frequency       Semi-Annual         Day Count Convention       30/360         Currency       USD         Holiday Calendar(s)       New York, London         Business Day Convention       Modified Following with adjustment to period end dates         Floating Leg       Reset Frequency       Quarterly         Day Count Convention       Actual/360         Currency       USD         Holiday Calendar(s)       New York, London		
	adjustment to period end dates		
Effective Date	<ul> <li>The first date from which fixed and floating interest amounts accrue.</li> <li>To determine the Effective Date of a spot-starting Eris Interest Rate Swap Future, move two business days forward from the trade date in the London calendar, and then check the NY Fed Calendar. If that day is a valid NY business day, then that is the Effective Date. If that day is a NY holiday, then continue to move forward to the next day that is a valid business day on both the LN and NY calendars.</li> </ul>		
Cash Flow Alignment Date ("CFAD")	for determination of the Maturity Date The Cash Flow Alignment Date can be defined as any date up		



	to 30 years following the Effective Date. CFAD can be derived, if necessary, by adding the tenor to the Effective Date. For example, an Eris Interest Rate Swap Future with an Effective Date of 12/30/2010 and a tenor of three years implies a Cash Flow Alignment Date of 12/30/2013. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the
	Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following Rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both the NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date. Eris PAITM accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Trading Period Type	<ul> <li>Spot:</li> <li>A new contract or one created on a prior date, in which the Effective Date is the same as a spot starting contract traded on that day.</li> </ul>
	Forward:
	• A new contract or one created on a prior date, in which the Effective Date is after the Effective Date of a spot starting contract traded on that day. The maximum possible time between the Effective Date of a spot starting contract and the Effective Date of a forward starting contract is 10 years.
	<ul> <li>Seasoned:</li> <li>A new contract or one created on a prior date, in which the Effective Date is before the Effective Date of a spot starting contract traded on that day.</li> </ul>
	The Ticker Symbol remains the same as it transitions throughout period types.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date. A Contract can have an Underlying Tenor as long dated as 30 years, with precision down to each valid business day.



Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
	A Contract can have a Remaining Tenor as long dated as 40 years, with precision down to each valid business day.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.
	<ul> <li>The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 12/15/2030, the Reset Dates will be on the 15<sup>th</sup> of March, June, September and December, subject to the Modified Following convention.</li> </ul>
Last Trading Day	The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.
First LIBOR Fixing Date	For spot starting contracts, the first LIBOR Fixing Date is the trade date.
	For forward starting contracts, the first LIBOR Fixing Date is 2 London business days prior to the Effective Date.
Other LIBOR Fixing Date	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.
Floating Rate Index: First Period	3 Month USD LIBOR for all contracts with standard first floating rate period (i.e., length of period is 3 months, adjusted for Modified Following).
	<ul> <li>For both Spot Starting and Forward Starting Contracts with non-standard tenors, a short front stub period of less than 3 months may occur between the Effective Date and the first Reset Date. In these cases, the first LIBOR Fixing Rate is determined using linear interpolation based on the two LIBOR indices that surround the Stub Period on the first LIBOR Fixing Date.</li> <li>The following USD LIBOR indices will be used to determine the fixing rate for a stub period: Overnight, 1 Week, 1 Month, 2 Month and 3 Month.</li> <li>For example, the first LIBOR fixing rate for a contract with a stub period of 45 days will be interpolated between the 1 month and 2 month LIBOR rates.</li> </ul>



Floating Rate Index: Subsequent Periods	3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).	
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.	
	The settlement value for each Contract is defined as:	
	$S_t = 100 + A_t + B_t - C_t$	
	S <sub>t</sub> = settlement price at time t	
	A <sub>t</sub> = net present value of the future cash flows at time t, based on OIS discounting	
	$B_t$ = value of the historical fixed and floating amounts	
	since contract inception	
	$C_t$ = Eris Price Alignment Interest (or Eris PAI <sup>TM</sup> ).	
	Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).	
	Eris PAI is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI <sup>™</sup> will start accruing on the first trade date.	
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$	
	S <sub>final</sub> = Settlement price at maturity	
	B <sub>final</sub> = Historical fixed and floating amounts since	
	Contract inception through maturity	
	G <sub>final</sub> = Eris PAI <sup>TT</sup> , at maturity	
Quoting Convention – Par Swap Futures	During the Forward and Spot Periods, market participants can trade Par Swap Futures by negotiating the par fixed rate for a given Effective Date and Cash Flow Alignment Date. Each Par Swap Future negotiated in fixed rate terms carries an implicit futures-style price of 100.0000. For Par Swap Futures the fixed rate can be negotiated in increments of one-tenth of one basis point, from 0.000% to 9.999%.	
Quoting Convention –	During the Spot, Forward and Seasoned periods of a given	
Futures	Value (NPV) per Contract.	
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).	



	Each Off-Market Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t.
	The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 4:30pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than two years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> </ul>
	<ul> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4 years and less than 7 years.</li> </ul>
	<ul> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years</li> </ul>
	<ul> <li>\$20 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 20 years.</li> </ul>
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.
	Block Trades may be executed at any time, including times in which the public auction market is closed, except that Block Trades in Eris Flexes may not be executed from 4:30 pm to 5:00 pm Eastern Time on Business Days.
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.



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	<ul> <li>Current block trade thresholds are as follows and are subject to change:</li> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>		
		Minimum	Block Size
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
	Less than 5	<u>\$10mm notional</u> <u>100</u> <u>contracts</u> \$50mm notional	\$1.0mm notional
	years	500 contracts	10 contracts
		<u>\$10mm notional</u> <u>100</u> contracts <del>\$25mm</del>	
	5 years or more	notional 250 contracts	\$0.5mm notional 5 contracts
	Eris Exchange wil price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRP's) and reported to Eris Exchange.		
	EDRP's may be e the public auction	xecuted at any time, ind market is closed.	cluding times in which
	EDRP's must be e Exchange Rulebo	executed pursuant to Riok.	ule 602 in the Eris
	There are no mini	mum quantity threshold	s required for EDRP's.
	Eris Exchange do trading day; howe Exchange volume of each trading da	es not report EDRP's p ver, activity from EDRP and open interest valu y.	ublicly during the 's is reflected in the es published at the end



Ticker Symbol	Product Family + Tenor + Maturity
Convention	The first new trade for a given maturity date will be issued (by
	Eris Exchange systems) a ticker symbol comprised of Clearing
	Code 'Z(tenor category)0001', concatenated with the Period
	representing the maturity date in YYYYMMDD format.
	A contract's Tenor is defined as the difference between the
	contract's Effective Date and its Cash Flow Alignment Date
	Tenor category are as follows:
	ZA = Tenors greater than zero and less than or equal to two
	ZB = Tenors greater than two years and less than or equal to
	ZC = Tenors greater than five years and less than or equal to ten years
	ZD = Tenors greater than ten years
	The first Contract that trades with a particular maturity is
	assigned Product Family 7(A)0001 The next Contract that
	trades with the same maturity, but with a different start date or
	coupon is assigned Product Family 7(A)0002
	For example, assume that the trade is a 10-year swap future
	initiated with an Effective Date of 20-Dec-2010 Maturity Date of
	20-Dec-2020 and coupon of 0 710. Because the trade is the first
	to carry the maturity date 20-Dec-2020, the issued ticker symbol
	is $7C000120201220$ . The C denotes that this is in the 5+ to 10
	vears tenor category
	Notwithstanding the above, for purposes of trade entry in
	BlockBox, a Flex Contract with the same Effective Date, Cash
	Flow Alignment Date and Fixed Rate as a Standard Contract
	will, by default, be filled as a Standard Contract. Similarly.
	SwapBook will not permit the creation of an order for a Flex
	Contract with the same Effective Date. Cash Flow Alignment
	Date and Fixed Rate as a Standard Contract.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of featured
	Contracts, may be traded using the SwapBook Discrete Spread
	functionality



- (b) Standard Contract Specifications
  - (1) 2 Year Standard Contract Specifications:

Trading Hours	Regular Trading Hours (RTH): Monday – Friday: 7:00 am to 5:00 pm Eastorn Time	
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.	
Underlying Swap Tenor	2 Years	
Contract Short Name	2Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and the year of the Maturity Date For example, the 2Y Standard with an Effective Date in September 2014 and a Maturity Date in September 2016 will have a Contract Short Name of "2Y Stnd Sep 2014-2016"</yyyy-yyyy></month></yyyy-yyyy></month>	
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>	
Contract Size	1 Contract = 1 lot = \$100,000 face	
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed	
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates	
	Floating LegQuarterly• Reset FrequencyQuarterly• Day Count ConventionActual/360• CurrencyUSD• Holiday Calendar(s)New York, London Business Day Convention	



	Modified Following with
	adjustment to period end
	dates
Effective Dates	Quarterly IMM Dates (2 <sup>rd</sup> Wednesday of each March, June
Effective Dates	September December)
	Monthly dates as provided by the Exchange in an Exchange
	Advisorv
Cash Flow Alignment	The date used for aligning all fixed and fleating Reset Dates
Date ("CFAD")	and for determination of the Maturity Date.
	CFAD can be derived by adding 2 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 2 years implies a Cash Flow Alignment Date of 09/19/2014. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The
	last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>TM</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.



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Last Trading Day	<ul> <li>The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 09/19/2014, the Reset Dates will be on the 19<sup>th</sup> of December, March, June and September, subject to the Modified Following convention.</li> <li>The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.</li> </ul>
First LIBOR Fixing Date	2 London business days prior to the Effective Date.
Other LIBOR Fixing Dates	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).
Daily Settlement Price (Futures-Style Price)	<ul> <li>Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.</li> <li>The settlement value for each Contract is defined as:</li> <li>St = 100 + At + Bt - Ct</li> <li>St = settlement price at time t</li> <li>At = net present value of the future cash flows at time t, based on OIS discounting</li> <li>Bt = value of the historical fixed and floating amounts since contract inception</li> <li>Ct = Eris Price Alignment Interest (or Eris PAI<sup>TM</sup>).</li> <li>Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).</li> <li>Eris PAI<sup>TM</sup> is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI<sup>TM</sup> will start accruing on the first listing date.</li> </ul>
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$ Sting = Settlement price at maturity
	$B_{final}$ = Historical fixed and floating amounts since



	contract inception through maturity
	$C_{\text{final}}$ = Eris PAI <sup>TM</sup> , at maturity
Quoting Convention	Net Present Value (NPV) per Contract will be used for trade execution.
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> </ul>
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.
	Block Trades may be executed at any time, including times in which the public auction market is closed.
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.



	Current block trade thresholds are as follows and are subject to		
	<ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>		
		Minimum	Block Size
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
		\$10mm notional	
		<u>100</u>	
		contracts\$50mm	
	Less than 5	notional	\$1.0mm notional
	years	500 contracts	10 contracts
		\$10mm notional	
		<u>100</u>	
		contracts\$25mm	
	5 years or more	notional	\$0.5mm notional
		250 contracts	5 contracts
	Eris Exchange wil price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRPs may be ex the public auction	kecuted at any time, inc market is closed.	luding times in which
	EDRPs must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.		
	There are no mini	mum quantity threshold	ls required for EDRP's.
	Eris Exchange do trading day; howe Exchange volume end of each tradin	es not report EDRP's p ver, activity from EDRP and open interest valu ig day.	ublicly during the 's is reflected in the es published at the
Ticker Symbol Convention	Maturity Code (Pe Product Code: ZA Product Code: ZA	eriod Code) will be YYY 9102; initial contract fix 9202; secondary contra	YMMDD ed rate act fixed rate



	For example, the 2 Year Standard Contract with Product Code of ZA9102 and Maturity Date of 12/19/14 will have a ticker symbol of ZA910220141219.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard
	Contracts, may be traded using the SwapBook Discrete Spread
	functionality.
(2) 5 Year Standard Contract Specifications:	

Trading Hours	Regular Trading Hours (RTH):		
	VIOLIDAY - FILDAY; 7:00 am to 5:00 pm Eastern Time		
Contract Structure	\$100,000 notional principal whose value is based upon the		
	difference between a stream of semi-annual fixed interest		
	payments and a stream of quarterly floating interest payments		
	based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap	5 Years		
Contract Short Name	5/ Otend Manth MARCH WAR where the Manth will be		
Contract Short Name	5Y Stnd  , where the  will be		
	WWW WWW will represent the year of the Effective Date and		
	the year of the Maturity Date		
	For example, the 5Y Standard with an Effective Date in		
	September 2014 and a Maturity Date in September 2019 will		
	have a Contract Short Name of "5Y Stud Sen 2014-2019"		
Fixed Rate	Pre-determined rate set by Eris Exchange which will remain		
	static throughout the life of the contract		
	Determined just prior to guarterly listing		
	<ul> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed		
	Sell = Receive Fixed		
Swap Futures Leg	Fixed Leg		
Conventions	Reset Frequency     Semi-Annual		
	Day Count Convention 30/360		
	Currency     USD		
	Holiday Calendar(s)     New York, London		
	Business Day Convention Modified Following with		
	adjustment to period end		
	dates		
	Floating Leg		



	<ul> <li>Reset Frequency Quarterly</li> <li>Day Count Convention Actual/360</li> <li>Currency USD</li> <li>Holiday Calendar(s) New York London</li> </ul>	
	<ul> <li>Business Day Convention Modified Following with adjustment to period end dates</li> </ul>	
Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory	
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.	
	CFAD can be derived by adding 5 Years to the Effective Date.	
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 5 years implies a Cash Flow Alignment Date of 09/19/2017. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.	
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.	
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.	
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.	
	The Maturity Date may also be referred to as Termination Date.	
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.	
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.	
Reset Dates	Dates utilized to determine fixed and floating amounts	



	throughout the life of the Contract. Reset Dates define the		
	beginning and end of fixed and floating interest accrual periods.		
	LIBOR Fixing Dates.		
	The Cash Flow Alignment Date will be used as the basis for		
	determining Reset Dates. Each Reset Date is subject to		
	adjustment based on Modified Following convention.		
	• For example, if the CFAD is 09/19/2017, the Reset		
	Dates will be on the 19 <sup>th</sup> of December, March, June and Soptember, subject to the Medified Following		
	convention.		
Last Trading Day	The last day on which the Contract can be traded is the NY		
	business day preceding the Maturity Date.		
First LIBOR Fixing	2 London business days prior to the Effective Date.		
Date			
Other LIBOR Fixing	For all periods other than the first floating rate period, the LIBOR		
Dates	Fixing Date is 2 London business days prior to each Reset		
	Date.		
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark		
_	Administration Limited (IBA).		
Daily Sattlamont	Eria Interest Data Swan Eutures are prized on a basis of 100		
Daily Settlement	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as:		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discountingB_t = value of the historical fixed and floating amounts$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily Settlement$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily SettlementPrice to 4 decimals of precision (e.g., 100.1234).Eris PAITM is a cumulative value calculated daily by applying the$		
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily SettlementPrice to 4 decimals of precision (e.g., 100.1234).Eris PAITM is a cumulative value calculated daily by applying theovernight Fed Funds effective rate to the contract's NPV, using$		
Daily Settlement Price (Futures-Style Price)	<ul> <li>Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.</li> <li>The settlement value for each Contract is defined as:</li> <li>St = 100 + At + Bt - Ct</li> <li>St = settlement price at time t</li> <li>At = net present value of the future cash flows at time t, based on OIS discounting</li> <li>Bt = value of the historical fixed and floating amounts since contract inception</li> <li>Ct = Eris Price Alignment Interest (or Eris PAI<sup>TM</sup>).</li> <li>Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).</li> <li>Eris PAI<sup>TM</sup> is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI<sup>TM</sup> will start precision of the future data.</li> </ul>		
Daily Settlement Price (Futures-Style Price)	<ul> <li>Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.</li> <li>The settlement value for each Contract is defined as:</li> <li>S<sub>t</sub> = 100 + A<sub>t</sub> + B<sub>t</sub> - C<sub>t</sub></li> <li>S<sub>t</sub> = settlement price at time t</li> <li>A<sub>t</sub> = net present value of the future cash flows at time t, based on OIS discounting</li> <li>B<sub>t</sub> = value of the historical fixed and floating amounts since contract inception</li> <li>C<sub>t</sub> = Eris Price Alignment Interest (or Eris PAI<sup>TM</sup>).</li> <li>Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).</li> <li>Eris PAI<sup>TM</sup> is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI<sup>TM</sup> will start accruing on the first listing date.</li> </ul>		
Daily Settlement         Price         (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily SettlementPrice to 4 decimals of precision (e.g., 100.1234).Eris PAITM is a cumulative value calculated daily by applying theovernight Fed Funds effective rate to the contract's NPV, usingan Actual/360 day-count convention. Eris PAITM will startaccruing on the first listing date.S_{final} = 100+B_{finar}C_{final}$		



	S <sub>final</sub> = Settlement price at maturity
	B <sub>final</sub> = Historical fixed and floating amounts since contract inception through maturity
	$C_{\text{final}} = \text{Eris PAI}^{\text{TM}}$ , at maturity
Quoting Convention	Net Present Value (NPV) per Contract will be used for trade
	execution.
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4 years and less than 7 years.</li> </ul>



Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.		
	Block Trades may be executed at any time, including times in which the public auction market is closed.		
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.		
	Current block trad change:	e thresholds are as follo	ows and are subject to
	<ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>		
		Minimum	Block Size
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
		\$10mm notional 100 contracts\$50mm	
	Less than 5	notional	\$1.0mm notional
	years	500 contracts	10 contracts
		\$10mm notional 100	
		contracts\$25mm	¢0 Emm notional
	5 years of more	<del>250 contracts</del>	5 contracts
	Eris Exchange wil price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be executed at any time, including times in which the public auction market is closed.		
	EDRPs must be Exchange Rulebo	executed pursuant to ok.	Rule 602 in the Eris
	There are no mini	mum quantity threshold	Is required for EDRP's.



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	Eris Exchange does not report EDRP's publicly during the trading day; however, activity from EDRP's is reflected in the Exchange volume and open interest values published at the end of each trading day.
Ticker Symbol	Maturity Code (Period Code) will be YYYYMMDD
Convention	
	Product Code: ZB9105; initial contract fixed rate
	Product Code: ZB9205; secondary contract fixed rate
	For example, the 5 Year Standard Contract with Product Code of ZB9105 and Maturity Date of 12/19/17 will have a ticker symbol of ZB910520171219.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard
	Contracts, may be traded using the SwapBook Discrete Spread
	functionality.



(3) 7 Year Standard Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
	<ul> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	7 Years		
Contract Short Name	7Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and the <yyyy-yyyy> will represent the Effective Date and the year of the Maturity date.</yyyy-yyyy></month></yyyy-yyyy></month>		
	September 2014 and a Maturity Date in September 2021 will have a Contract Short Name of "7Y Stnd Sep 2014-2021"		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June,	
	September, December)	
	Monthly datas as provided by the Exchange in an Exchange	
	Advisory	
Cash Flow Alignment	The date used for aligning all fixed and floating Reset Dates.	
Date ("CFAD")	and for determination of the Maturity Date.	
	CFAD can be derived by adding 7 Years to the Effective Date.	
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 7 years implies a Cash Flow Alignment Date of 09/19/2019. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.	
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract	
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.	
	Eris $PAI^{TM}$ accrues up to and including the Maturity Date.	
	The Maturity Date may also be referred to as Termination Date.	
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.	
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.	
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates. The Cash Flow Alignment Date will be used as the basis for	
	determining Reset Dates. Each Reset Date is subject to	



	adjustment based on Modified Following convention.		
	• For example, if the CFAD is 09/19/2019, the Reset		
	Dates will be on the 19 <sup>th</sup> of December, March, June and		
	September, subject to the Modified Following		
	Convention.		
Last Trading Day	The last day on which the Contract can be traded is the NY		
	business day preceding the Maturity Date.		
First LIBOR Fixing	2 London business days prior to the Effective Date.		
Date			
Other LIBOR Fixing	For all periods other than the first floating rate period, the LIBOR		
Dates	Fixing Date is 2 London business days prior to each Reset		
	Date.		
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark		
	Administration Limited (IBA).		
Daily Sottlamont	Frie Interact Pate Swap Futures are priced as a basis of 400		
Price	cimilar to market practice for bands and other futures contracts		
(Futures-Style Price)			
(i didies-otyle i fice)	The settlement value for each Contract is defined as:		
	$S_{1} = 100 + A_{1} + B_{2} - C_{4}$		
	$S_t = settlement price at time t$		
	$A_t$ = net present value of the future cash flows at		
	time t. based on OIS discounting		
	$B_{t}$ = value of the historical fixed and floating amounts		
	since contract inception		
	$C_t$ = Eris Price Alignment Interest (or Eris PAI <sup>TM</sup> ).		
	Eris Exchange and CME Clearing calculate Daily Settlement		
	Price to 4 decimals of precision (e.g., 100.1234).		
	Fris PAI <sup>™</sup> is a cumulative value calculated daily by applying the		
	overnight Fed Funds effective rate to the contract's NPV using		
	an Actual/360 day-count convention. Fris $PAI^{TM}$ will start		
	accruing on the first listing date.		
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$		
	S <sub>final</sub> = Settlement price at maturity		
	B <sub>final</sub> = Historical fixed and floating amounts since		
	contract inception through maturity		
	$C_{\text{final}} = \text{Eris PAI}^{\text{IM}}$ , at maturity		
Queting Converties	Net Dresent Value (NDV) ner Oestrect will be weed for toole		
Quoting Convention	Net Present value (NPV) per Contract Will be used for trade		
	NPV is expressed in per contract terms for the Ruver (fixed rate		
	naver)		
	p~j~·/·		



	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	<i>Trade Price</i> = $100 + A_{negotiated} + B_t - C_t$ where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than two years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4 years and less than 7 years.</li> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years.</li> </ul>
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.
	Block Trades may be executed at any time, including times in which the public auction market is closed.
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.
	Current block trade thresholds are as follows and are subject to change: • A multiple leg Block Trade is permitted as long as the



	sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold		
	for the leg with the shortest Remaining Tenor.		
	Minimum Block Size		
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
		\$10mm notional 100	
	Less than 5 years	contracts	\$1.0mm notional 10 contracts
		\$10mm notional 100 contracts\$25mm	
	5 years or more	notional <del>250 contracts</del>	\$0.5mm notional 5 contracts
	Eris Exchange will price, quantity) imi details from the pa	publicly report all Block mediately upon success arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be executed at any time, including times in which the public auction market is closed.		
	EDRPs must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.		
	There are no minimum quantity thresholds required for EDRP's. Eris Exchange does not report EDRP's publicly during the trading day; however, activity from EDRP's is reflected in the Exchange volume and open interest values published at the end of each trading day.		
Ticker Symbol	Maturity Code (Pe	riod Code) will be YYY	YMMDD
Convention	Product Code: ZC Product Code: ZC	9107; initial contract fix 9207; secondary contra	ed rate act fixed rate
	For example, the 7 Maturity Date of 12 ZC910720191219	Y contract with Product 2/19/19 will have a ticke	t Code of ZC9107 and er symbol of



Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard Contracts, may be traded using the SwapBook Discrete Spread functionality



(4) 10 Year Standard Contract Specifications:

Trading Hours	<ul> <li>Regular Trading Hours (RTH):</li> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	10 Years		
Contract Short Name	10Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and the year of the Maturity Date For example, the 10Y Standard with an Effective Date in September 2014 and a Maturity Date in September 2024 will have a Contract Short Name of "10Y Stnd Sep 2014-2024"</yyyy-yyyy></month></yyyy-yyyy></month>		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.
	CFAD can be derived by adding 10 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 10 years implies a Cash Flow Alignment Date of 09/19/2022. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates. The Cash Flow Alignment Date will be used as the basis for
	determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.



	• For example, if the CFAD is 09/19/2022, the Reset Dates will be on the 19 <sup>th</sup> of December, March, June and September, subject to the Modified Following convention.	
Last Trading Day	The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.	
First LIBOR Fixing Date	2 London business days prior to the Effective Date.	
Other LIBOR Fixing Dates	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.	
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).	
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as: $S_t = 100 + A_t + B_t - C_t$ $S_t = settlement price at time t$ $A_t = net present value of the future cash flows at time t, based on OIS discounting B_t = value of the historical fixed and floating amounts since contract inception C_t = Eris Price Alignment Interest (or Eris PAITM).Eris Exchange and CME Clearing calculate Daily SettlementPrice to 4 decimals of precision (e.g., 100.1234).Eris PAITM is a cumulative value calculated daily by applying theovernight Fed Funds effective rate to the contract's NPV, usingan Actual/360 day-count convention. Eris PAITM will startaccruing on the first listing date.$	
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$	
	B <sub>final</sub> = Historical fixed and floating amounts since contract inception through maturity	
	$C_{final}$ = Eris PAI <sup>IM</sup> , at maturity	



Quoting Convention	Net Present Value (NPV) per Contract will be used for trade execution.
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining</li> </ul>
	<ul> <li>Tenor/Underlying Tenor is greater than greater than or equal 4 years and less than 7 years.</li> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than greater than or equal 7 years and less than 20 years.</li> </ul>



Block Trades	<ul> <li>Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.</li> <li>Block Trades may be executed at any time, including times in which the public auction market is closed.</li> <li>Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.</li> <li>Current block trade thresholds are as follows and are subject to change: <ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold</li> </ul> </li> </ul>		
	for the leg with the shortest Remaining Tenor.		
	Minimum Block Size		
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
		\$10mm notional 100 contracts\$50mm	
	Less than 5	notional	\$1.0mm notional
		\$10mm notional 100 contracts\$25mm	
	5 years or more	notional 250 contracts	\$0.5mm notional
	Eris Exchange wil price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be executed at any time, including times in which the public auction market is closed.		
	EDRPs must be Exchange Rulebo	executed pursuant to ok.	Rule 602 in the Eris
	There are no mini	mum quantity threshold	ls required for EDRP's.



	Eris Exchange does not report EDRP's publicly during the trading day; however, activity from EDRP's is reflected in the Exchange volume and open interest values published at the end of each trading day.
Ticker Symbol	Maturity Code (Period Code) will be YYYYMMDD
Convention	Draduct Cade, 700140, initial contract fixed rate
	Product Code: 2C9110; Initial contract fixed rate
	For example, the 10 Year Standard Contract with Product Code of ZC9110 and Maturity Date of 12/19/22 will have a ticker symbol of ZC911020221219.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard Contracts, may be traded using the SwapBook Discrete Spread functionality.



(5) 30 Year Standard Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
	<ul> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the		
	payments and a stream of quarterly floating interest payments		
	based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	30 Years		
Contract Short Name	30Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and the year of the Maturity Date</yyyy-yyyy></month></yyyy-yyyy></month>		
	For example, the 30Y Standard with an Effective Date in September 2014 and a Maturity Date in September 2044 will have a Contract Short Name of "30Y Stnd Sep 2014-2044"		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterly• Reset FrequencyQuarterly• Day Count ConventionActual/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		



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Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.
	CFAD can be derived by adding 30 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 30 years implies a Cash Flow Alignment Date of 09/19/2042. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.
	The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to


	<ul> <li>adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 09/19/2042, the Reset</li> </ul>		
	Dates will be on the 19 <sup>th</sup> of December, March, June and		
	September, subject to the Modified Following convention.		
Last Trading Day	The last day on which the Contract can be traded is the NY		
	business da	ay preceding the Maturity Date.	
First LIBOR Fixing Date	2 London b	usiness days prior to the Effective Date.	
Other LIBOR Fixing Dates	For all perior Fixing Date Date.	ods other than the first floating rate period, the LIBOR e is 2 London business days prior to each Reset	
Floating Rate Index	3 Month US Administrat	SD LIBOR announced by the ICE Benchmark ion Limited (IBA).	
Daily Settlement	Eris Interes	st Rate Swap Futures are priced on a basis of 100,	
(Futures-Style Price)	Similar to m	larket practice for bonds and other futures contracts.	
	The settlen S <sub>t</sub> =	nent value for each Contract is defined as: 100 + $A_t$ + $B_t$ - $C_t$	
	$\begin{array}{ccc} S_t & = \\ A_t & = \end{array}$	settlement price at time t net present value of the future cash flows at	
	B <sub>t</sub> =	value of the historical fixed and floating amounts since contract inception	
	C <sub>t</sub> =	Eris Price Alignment Interest (or Eris PAI <sup>™</sup> ).	
	Eris Excha Price to 4 c	nge and CME Clearing calculate Daily Settlement lecimals of precision (e.g., 100.1234).	
	Eris PAI <sup>™</sup> overnight F an Actual/ accruing or	is a cumulative value calculated daily by applying the Fed Funds effective rate to the contract's NPV, using 360 day-count convention. Eris PAI <sup>™</sup> will start in the first listing date.	
Final Settlement Price	S <sub>final</sub> =	100+B <sub>final</sub> -C <sub>final</sub>	
	S <sub>final</sub> =	Settlement price at maturity	
	B <sub>final</sub> =	Historical fixed and floating amounts since contract inception through maturity	
	C <sub>final</sub> =	Eris PAI <sup>™</sup> , at maturity	



Quoting Convention	Net Present Value (NP\/) per Contract will be used for trade		
	execution.		
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).		
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of		
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$		
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.		
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.		
	The NPV per Contract can be negotiated in the following increments/tick sizes:		
	• \$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.		
	<ul> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years</li> </ul>		
	<ul> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4</li> </ul>		
	<ul> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years</li> </ul>		
	<ul> <li>\$20 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 20 years.</li> </ul>		



Block Trades	Eris Interest Rate	Eris Interest Rate Swap Futures are eligible to be traded as		
	Eris Exchange.			
	Block Trades may be executed at any time, including times in which the public auction market is closed.			
	Block Trades mus 601 in the Eris Ex	st be executed and rep change Rulebook.	ported pursuant to Rule	
	Current block trad change:	e thresholds are as foll	ows and are subject to	
	• A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.			
	Minimum Block Size			
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH	
		\$10mm notional 100		
	Loop then 5	contracts\$50mm	¢1.0mm notional	
	vears	500 contracts	10 contracts	
	youro	\$10mm notional		
		<u>100</u> contracts <del>\$25mm</del>		
	5 vears or more	notional	\$0.5mm notional	
	,	250 contracts	5 contracts	
	Eris Exchange wil price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade	
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.			
	EDRP's may be executed at any time, including times in which the public auction market is closed.			
	EDRPs must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.			
	There are no mini	mum quantity threshold	ls required for EDRP's.	



	Eris Exchange does not report EDRP's publicly during the trading day; however, activity from EDRP's is reflected in the Exchange volume and open interest values published at the end of each trading day.
Ticker Symbol	Maturity Code (Period Code) will be YYYYMMDD
Convention	
	Product Code: ZD9130; initial contract fixed rate
	Product Code: ZD9230; secondary contract fixed rate
	For example, the 30 Year Standard Contract with Product Code of ZD9130 and Maturity Date of 12/19/42 will have a ticker symbol of ZD913020421219.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard
	Contracts, may be traded using the SwapBook Discrete Spread
	functionality.

Certain elements of the contract design and pricing construct are patent pending.

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## **RULE 601. Block Trades**

- (d) The Exchange shall designate the products in which block trades shall be permitted and determine the minimum quantity thresholds for such transactions.
- (e) The following shall govern block trades:
  - (1) A block trade must be for a quantity that is at or in excess of the applicable minimum threshold. Orders may not be aggregated in order to achieve the minimum transaction size, except by those entities described in Sections (10) and (11) below and as provided in Rule 601(b)(2).
  - (2) Multi-legged block trades may be executed as block trades, provided that the sum of the legs of the block trade meets the Minimum Block Size for the leg with the shortest Remaining Tenor as provided in Rule 601(c)(1).
  - (3) Each Person to a block trade must be an Eligible Contract Participant.
  - (4) A broker for a Person shall not execute any order by means of a block trade for a Person unless such Person has specified that the order be executed as a block trade.
  - (5) The price at which a block trade is executed must be fair and reasonable in light of (i) the size of the block trade, (ii) the prices and sizes of other transactions in the same contract at the relevant time, (iii) the prices and sizes of transactions in other relevant markets, including without limitation the underlying cash market or related futures markets, at the relevant time, and (iv) the circumstances of the markets or the Participants to the block trade.
  - (6) Block trades shall not set off conditional orders (e.g., Stop Orders and MIT Orders) or otherwise affect orders in the regular market.
  - (7) One of the Persons or the broker of one of the Persons to the block trade must ensure that each block trade is reported to the Exchange within the time limit set forth below:
    - a. Block trades in Eris Standards during RTH must be reported within 15 minutes of the transaction
    - b. Block trades in Eris Flexes during RTH must be reported to the Exchange within 15 minutes of the transaction, or by 4:35 pm ET (whichever comes first).
    - c. All block trades executed during OTH must be reported within the later of fifteen minutes after trade execution or five minutes prior to the next market open.

The Exchange shall promptly publish such information separately from the reports of transactions in the regular market.

(8) Reporting Method and Information



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- a. Block trades must be reported to the Exchange by calling the Eris Control Center, through entry into Eris BlockBox, or in accordance with another approved reporting method.
- b. The block trade report must include the information related to the block trade specified in the Exchange's approved reporting method, including: the identification of parties to the block trade; product details; trade quantity, price, and time; and, Clearing Firm.
- (9) Clearing Firms, Participants, Participant Firms, and Broker Firms involved in the execution of block trades must maintain a record of the transaction in accordance with Rules 401.
- (10) A commodity trading advisor ("CTA") registered or exempt from registration under the Act, including, without limitation, any investment advisor registered or exempt from registration under the Investment Advisors Act of 1940, or principal thereof, shall be the applicable entity for purposes of Sections (1), (3), (4) and (5), provided such advisors have total assets under management exceeding \$25 million and the block trade is suitable for the customers of such advisors.
- (11) A foreign Person performing a similar role or function to a CTA or investment advisor as described in Section 10, or principal thereof, and subject as such to foreign regulation, shall be the applicable entity for purposes of Sections (1), (3), (4) and (5), provided such Persons have total assets under management exceeding \$25 million and the block trade is suitable for the customers of such Persons.
- (f) Products designated for Block Trades.

The following products are designated for block trades:

(1) INTEREST RATE SWAP FUTURES CONTRACTS: For Interest Rate Swap Futures Contracts, the minimum block size is based on Remaining Tenor, defined as the duration of time from the transaction date to the Cash Flow Alignment Date (defined in Rule 1101), of the Contract as follows:

	Minimum Block Size		
Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH	
Less than 5 years	\$10mm notional 100 contracts	\$1.0mm notional 10 contracts	
5 years or more	\$10mm notional 100 contracts	\$0.5mm notional 5 contracts	



## RULE 1101. Eris Interest Rate Swap Futures Contract Specifications

(c) Flex Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
-	<ul> <li>Monday – Friday; 7:00 am to 4:30 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Contract Size	1 Contract = 1 lot = \$100,000 face.		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegReset FrequencySemi-AnnualDay Count Convention30/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end datesFloating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end datesModified Following With adjustment to period end datesNew York, LondonModified Following with adjustment to period end datesNew York, London		
Effective Date	<ul> <li>The first date from which fixed and floating interest amounts accrue.</li> <li>To determine the Effective Date of a spot-starting Eris Interest Rate Swap Future, move two business days forward from the trade date in the London calendar, and then check the NY Fed Calendar. If that day is a valid NY business day, then that is the Effective Date. If that day is a NY holiday, then continue to move forward to the next day that is a valid business day on both the LN and NY calendars.</li> </ul>		
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating reset dates, and for determination of the Maturity Date The Cash Flow Alignment Date can be defined as any date up to 30 years following the Effective Date. CFAD can be derived, if necessary, by adding the tenor to the Effective Date.		



	Effective Date of 12/30/2010 and a tenor of three years implies		
	a Cash Flow Alignment Date of 12/30/2013. Note that the Cash		
	weekends and holidays. The CFAD is used to determine the		
	Maturity Date, but the two terms are distinct, as the Maturity		
	Date must fall on a valid business day from the joint holiday		
	calendar.		
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.		
	Maturity Date is determined by applying the Modified Following		
	Rule to the Cash Flow Alignment Date. If the Cash Flow		
	Alignment Date is a non-business day in either NY or London,		
	go forward to the next day that is a business day in both the NY		
	month the preceding valid business day on both the NY and		
	London holiday calendars will be the Maturity Date.		
	Eris PAITM accrues up to and including the Maturity Date.		
	The Meturity Determony clear he referred to be Terrain stice. Determined		
Trading Period Type	Spot:		
	A new contract or one created on a prior date, in which		
	the Effective Date is the same as a spot starting contract		
	traded on that day.		
	Forward:		
	A new contract or one created on a prior date, in which		
	the Effective Date is after the Effective Date of a spot		
	starting contract traded on that day. The maximum		
	possible time between the Effective Date of a spot		
	starting contract and the Effective Date of a forward starting contract is 10 years		
	starting contract is to years.		
	Seasoned:		
	A new contract or one created on a prior date, in which		
	the Effective Date is before the Effective Date of a spot		
	stanting contract traded on that day.		
	The Ticker Symbol remains the same as it transitions		
	throughout period types.		
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow		
	Alignment Date.		
	A Contract can have an Underlying Tenor as long dated as 30		
	years, with precision down to each valid business day.		
Remaining Tenor	The duration of time from today to the Cash Flow Alignment		
	· · · · · · · · · · · · · · · · · · ·		



	Date.
	A Contract can have a Remaining Tenor as long dated as 40 years, with precision down to each valid business day.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.
	<ul> <li>The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 12/15/2030, the Reset Dates will be on the 15<sup>th</sup> of March, June, September and December, subject to the Modified Following convention.</li> </ul>
Last Trading Day	The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.
First LIBOR Fixing	For spot starting contracts, the first LIBOR Fixing Date is the
Date	
	For forward starting contracts, the first LIBOR Fixing Date is 2 London business days prior to the Effective Date.
Other LIBOR Fixing Date	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.
Floating Rate Index: First Period	3 Month USD LIBOR for all contracts with standard first floating rate period (i.e., length of period is 3 months, adjusted for Modified Following).
	<ul> <li>For both Spot Starting and Forward Starting Contracts with non-standard tenors, a short front stub period of less than 3 months may occur between the Effective Date and the first Reset Date. In these cases, the first LIBOR Fixing Rate is determined using linear interpolation based on the two LIBOR indices that surround the Stub Period on the first LIBOR Fixing Date.</li> <li>The following USD LIBOR indices will be used to determine the fixing rate for a stub period: Overnight, 1 Week, 1 Month, 2 Month and 3 Month.</li> <li>For example, the first LIBOR fixing rate for a contract with a stub period of 45 days will be interpolated between the 1 month and 2 month LIBOR rates.</li> </ul>
Floating Rate Index:	3 Month USD LIBOR announced by the ICE Benchmark



Subsequent Periods	Administration Limited (IBA).		
Daily Settlement Price (Eutures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.		
(rutures-otyle rifler)	The settlement value for each Contract is defined as:		
	$S_t = 100 + A_t + B_t - C_t$		
	S <sub>t</sub> = settlement price at time t		
	$A_t$ = net present value of the future cash flows at		
	time t, based on OIS discounting		
	B <sub>t</sub> = value of the historical fixed and floating amounts since contract inception		
	$C_t$ = Eris Price Alignment Interest (or Eris PAI <sup>TM</sup> ).		
	Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).		
	Eris PAI is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI <sup>™</sup> will start accruing on the first trade date.		
Final Settlement Price	$S_{final} = 100+B_{final}-C_{final}$ $S_{final} = Settlement price at maturity$ $B_{final} = Historical fixed and floating amounts since contract inception through maturity C_{final} = Eris PAI^{TM}, at maturity$		
Quoting Convention – Par Swap Futures	During the Forward and Spot Periods, market participants can trade Par Swap Futures by negotiating the par fixed rate for a given Effective Date and Cash Flow Alignment Date. Each Par Swap Future negotiated in fixed rate terms carries an implicit futures-style price of 100.0000. For Par Swap Futures the fixed rate can be negotiated in increments of one-tenth of one basis point, from 0.000% to 9.999%.		
Quoting Convention – Off-Market Swap Futures	During the Spot, Forward and Seasoned periods of a given Contract, market participants can negotiate the Net Present Value (NPV) per Contract.		
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).		
	Each Off-Market Swap Future negotiated in NPV terms has an implicit futures-style trade price of		



	$Trade Price = 100 + A_{negotiated} + B_t - C_t$		
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t.		
	The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.		
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 4:30pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.		
	<ul> <li>The NPV per Contract can be negotiated in the following increments/tick sizes:</li> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than two years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4 years and less than 7 years.</li> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years.</li> <li>\$20 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years.</li> </ul>		
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.		
	Block Trades may be executed at any time, including times in which the public auction market is closed, except that Block Trades in Eris Flexes may not be executed from 4:30 pm to 5:00 pm Eastern Time on Business Days.		
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.		
	Current block trade thresholds are as follows and are subject to		



	change:			
	<ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold</li> </ul>			
	for the leg	with the shortest Rema	aining Tenor.	
		Minimum	Block Size	
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH	
	Less than 5	\$10mm notional	\$1.0mm notional	
	years	100 contracts	10 contracts	
	5 years or more	\$10mm notional	\$0.5mm notional	
		100 contracts	5 contracts	
	Eris Exchange will price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade	
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRP's) and reported to Eris Exchange.			
	EDRP's may be executed at any time, including times in which the public auction market is closed.			
	EDRP's must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.			
	There are no mini	mum quantity threshold	Is required for EDRP's.	
	Eris Exchange doo trading day; howe Exchange volume of each trading da	es not report EDRP's p ver, activity from EDRF and open interest valu y.	ublicly during the ''s is reflected in the es published at the end	



Ticker Symbol	Product Family + Tenor + Maturity
Convention	The first new trade for a given maturity date will be issued (by
	Eris Exchange systems) a ticker symbol comprised of Clearing
	Code 'Z(tenor category)0001', concatenated with the Period
	representing the maturity date in YYYYMMDD format.
	A contract's Tenor is defined as the difference between the
	contract's Effective Date and its Cash Flow Alignment Date
	Tenor category are as follows:
	ZA = Tenors greater than zero and less than or equal to two
	ZB = Tenors greater than two years and less than or equal to
	ZC = Tenors greater than five years and less than or equal to ten years
	ZD = Tenors greater than ten years
	The first Contract that trades with a particular maturity is
	assigned Product Family 7(A)0001 The next Contract that
	trades with the same maturity, but with a different start date or
	coupon is assigned Product Family $7(A)0002$
	For example, assume that the trade is a 10-year swap future
	initiated with an Effective Date of 20-Dec-2010 Maturity Date of
	20-Dec-2020 and coupon of 0 710. Because the trade is the first
	to carry the maturity date 20-Dec-2020 the issued ticker symbol
	is $7C000120201220$ . The C denotes that this is in the 5+ to 10
	vears tenor category
	Notwithstanding the above, for purposes of trade entry in
	BlockBox, a Flex Contract with the same Effective Date, Cash
	Flow Alignment Date and Fixed Rate as a Standard Contract
	will, by default, be filled as a Standard Contract. Similarly.
	SwapBook will not permit the creation of an order for a Flex
	Contract with the same Effective Date. Cash Flow Alignment
	Date and Fixed Rate as a Standard Contract.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of featured
	Contracts, may be traded using the SwapBook Discrete Spread
	functionality



- (d) Standard Contract Specifications
  - (1) <u>2 Year Standard Contract Specifications:</u>

Trading Hours	Regular Trading Hours (RTH):		
	Monday – Friday; 7:00 am to 5:00	) pm Eastern Time	
Contract Structure	\$100,000 notional principal whose difference between a stream of payments and a stream of quarterly based on 3 month US Dollar LIBOR	value is based upon the semi-annual fixed interest y floating interest payments	
Underlying Swap Tenor	2 Years		
Contract Short Name	2Y Stnd <month> <yyyy-yyyy>, w the first three characters of the mont <yyyy-yyyy> will represent the ye the year of the Maturity Date For example, the 2Y Standard with a September 2014 and a Maturity Date have a Contract Short Name of "2Y S</yyyy-yyyy></yyyy-yyyy></month>	where the <month> will be th of the Effective Date and ar of the Effective Date and an Effective Date in e in September 2016 will Stnd Sep 2014-2016"</month>	
Fixed Rate	Pre-determined rate set by Eris E static throughout the life of the contra • Determined just prior to quart • Multiple fixed rates may be p	xchange which will remain act terly listing re-determined	
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	<ul> <li>Fixed Leg</li> <li>Reset Frequency</li> <li>Day Count Convention</li> <li>Currency</li> <li>Holiday Calendar(s)</li> <li>Business Day Convention</li> </ul>	Semi-Annual 30/360 USD New York, London Modified Following with adjustment to period end dates	
	<ul> <li>Floating Leg</li> <li>Reset Frequency</li> <li>Day Count Convention</li> <li>Currency</li> <li>Holiday Calendar(s)</li> </ul>	Quarterly Actual/360 USD New York, London Business Day Convention	



	Modified Following with
	adjustment to period end
	dates
Effective Dates	Quarterly IMM Dates (2 <sup>rd</sup> Wednesday of each March, June
Effective Dates	September December)
	Monthly dates as provided by the Exchange in an Exchange
	Advisorv
Cash Flow Alignment	The date used for aligning all fixed and fleating Reset Dates
Date ("CFAD")	and for determination of the Maturity Date.
	CFAD can be derived by adding 2 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 2 years implies a Cash Flow Alignment Date of 09/19/2014. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The
	last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>TM</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.



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Last Trading Day	<ul> <li>The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 09/19/2014, the Reset Dates will be on the 19<sup>th</sup> of December, March, June and September, subject to the Modified Following convention.</li> <li>The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.</li> </ul>		
First LIBOR Fixing Date	2 London business days prior to the Effective Date.		
Other LIBOR Fixing Dates	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.		
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).		
Daily Settlement Price (Futures-Style Price)	Administration Limited (IBA).         Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.         The settlement value for each Contract is defined as:         St = 100 + At + Bt - Ct         St = settlement price at time t         At = net present value of the future cash flows at time t, based on OIS discounting         Bt = value of the historical fixed and floating amounts since contract inception         Ct = Eris Price Alignment Interest (or Eris PAI <sup>TM</sup> ).         Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).         Eris PAI <sup>TM</sup> is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI <sup>TM</sup> will start accruing on the first listing date.		
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$ $S_{final} = Settlement price at maturity$		
	$B_{final}$ = Historical fixed and floating amounts since		

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	contract inception through maturity
	$C_{\text{final}}$ = Eris PAI <sup>TM</sup> , at maturity
Quoting Convention	Net Present Value (NPV) per Contract will be used for trade execution.
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> </ul>
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.
	Block Trades may be executed at any time, including times in which the public auction market is closed.
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.



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	<ul> <li>Current block trade thresholds are as follows and are subject to change:</li> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>		
		Minimum	Block Size
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
	Less than 5	\$10mm notional	\$1.0mm notional
	years	100 contracts	10 contracts
	5 years or more	\$10mm notional	\$0.5mm notional
		100 contracts	5 contracts
	Eris Exchange will price, quantity) im details from the pa	l publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRPs may be ex the public auction	ecuted at any time, inc market is closed.	luding times in which
	EDRPs must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.		
	There are no minii	mum quantity threshold	s required for EDRP's.
	Eris Exchange doo trading day; howe Exchange volume end of each tradin	es not report EDRP's p ver, activity from EDRP and open interest valu g day.	ublicly during the 's is reflected in the es published at the
Ticker Symbol Convention	Maturity Code (Pe Product Code: ZA Product Code: ZA	riod Code) will be YYY 9102; initial contract fix 9202; secondary contra	YMMDD ed rate act fixed rate
	For example, the of ZA9102 and N symbol of ZA9102	2 Year Standard Contr Maturity Date of 12/19 20141219.	ract with Product Code 0/14 will have a ticker
Listed Spreads	Listed Spreads (c Contracts, may be functionality.	or Discrete Spreads), or traded using the Swa	composed of Standard pBook Discrete Spread



Trading Hours	Regular Trading Hours (RTH): Monday – Eriday: 7:00 am to 5:00 nm Eastern Time		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	5 Years		
Contract Short Name	5Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and the year of the Maturity Date For example, the 5Y Standard with an Effective Date in September 2014 and a Maturity Date in September 2019 will have a Contract Short Name of "5Y Stnd Sep 2014-2019"</yyyy-yyyy></month></yyyy-yyyy></month>		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	<ul> <li>Fixed Leg</li> <li>Reset Frequency</li> <li>Day Count Convention</li> <li>Currency</li> <li>Holiday Calendar(s)</li> <li>Business Day Convention</li> <li>Modified Following with adjustment to period end dates</li> </ul>		
	Floating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.
	CFAD can be derived by adding 5 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 5 years implies a Cash Flow Alignment Date of 09/19/2017. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates. The Cash Flow Alignment Date will be used as the basis for
	determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.



	• F [	For e Dates Septe	example, if the CFAD is 09/19/2017, the Reset s will be on the 19 <sup>th</sup> of December, March, June and ember, subject to the Modified Following
Last Trading Day	The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.		
First LIBOR Fixing Date	2 Londo	n bus	siness days prior to the Effective Date.
Other LIBOR Fixing Dates	For all p Fixing D Date.	eriod Date	s other than the first floating rate period, the LIBOR is 2 London business days prior to each Reset
Floating Rate Index	3 Month Administ	USD tratio	D LIBOR announced by the ICE Benchmark n Limited (IBA).
Daily Settlement Price (Futures-Style Price)	Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts. The settlement value for each Contract is defined as:		
	$\begin{array}{rcl} S_t & = \\ S_t & = \\ A_t & = \\ B_t & = \\ C_t & = \\ Eris Exc \\ Price to \\ Eris PAI \\ overnigh \\ an Actu \\ accruing \end{array}$	= = 4 deo ™ is nt Feo µal/36 y on ti	100 + A <sub>t</sub> + B <sub>t</sub> - C <sub>t</sub> settlement price at time t net present value of the future cash flows at time t, based on OIS discounting value of the historical fixed and floating amounts since contract inception Eris Price Alignment Interest (or Eris PAI <sup>TM</sup> ). ge and CME Clearing calculate Daily Settlement cimals of precision (e.g., 100.1234). a cumulative value calculated daily by applying the d Funds effective rate to the contract's NPV, using 50 day-count convention. Eris PAI <sup>TM</sup> will start he first listing date.
Final Settlement Price	S <sub>final</sub> = S <sub>final</sub> = B <sub>final</sub> =	=	100+B <sub>final</sub> -C <sub>final</sub> Settlement price at maturity Historical fixed and floating amounts since contract inception through maturity
	C <sub>final</sub> :	=	Eris PAI <sup>™</sup> , at maturity



Quoting Convention	Net Present Value (NPV) per Contract will be used for trade		
	execution		
	NPV is expressed in per contract terms for the Buyer (fixed rate		
	payer).		
	Each Swap Future negotiated in NPV terms has an implicit		
	futures-style trade price of		
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$		
	where $A_{negotiated}$ is the NPV per Contract agreed upon between		
	the counterparties (divided by 1,000 to normalize units to \$100		
	face amount), $B_t$ is the value of the historical fixed and floating		
	amounts, and $C_t$ is Eris PAI <sup>IM</sup> at time t.		
	The B and C components are calculated and applied by the		
	counterparties		
	Eris Exchange calculates daily Eris PAI™ for all trades		
	executed between 8:30am and 5:00pm ET during RTH using		
	the overnight fed funds effective rate that was published on the		
	morning of the trade date. For all other trades, daily Eris PAI		
	is calculated using the overnight fed funds rate that was		
	The NPV per Contract can be negotiated in the following		
	increments/tick sizes:		
	\$1 for Contracts where the lesser of Remaining Tener/Linderlying Tener is less than 2 years		
	• \$2 for Contracts where the lesser of Remaining		
	Tenor/Underlying Tenor is greater than or equal to 2		
	years and less than 4 years.		
	• \$5 for Contracts where the lesser of Remaining		
	Tenor/Underlying Tenor is greater than or equal to 4		
	years and less than 7 years.		
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as		
	Fris Exchange		
	Block Trades may be executed at any time, including times in		
	which the public auction market is closed.		
	Plack Trades must be evented and reported surguest to Dula		
	601 in the Fris Exchange Rulebook		
	Current block trade thresholds are as follows and are subject to		



	change:			
	<ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted</li> </ul>			
	simultaneously meets the minimum quantity threshold			
	for the leg with the shortest Remaining Tenor.			
		Minimum	Block Size	
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH	
	Less than 5	\$10mm notional	\$1.0mm notional	
	years	100 contracts	10 contracts	
	5 years or more	\$10mm notional	\$0.5mm notional	
		100 contracts	5 contracts	
	Eris Exchange will price, quantity) imi	l publicly report all Bloc mediately upon succes	k Trades (instrument, sful receipt of the trade	
	details from the pa	arty reporting the trade.		
Exchange of	Fris Interest Rate	Swap Futures are e	ligible to be traded as	
Derivatives for	privately negotiate	ed, off-exchange Excha	ange of Derivatives for	
Related Positions	Related Positions	Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be ex	xecuted at any time, inc	cluding times in which	
	the public auction	market is closed.		
	EDRPs must be	executed pursuant to	Rule 602 in the Eris	
	Exchange Rulebook.			
	There are no minir	mum quantity threshold	s required for EDRP's.	
	Eris Exchange d	oes not report EDRF	's publicly during the	
	trading day; howe	ever, activity from EDF	RP's is reflected in the	
	Exchange volume	and open interest valu	es published at the end	
Ticker Symbol	Maturity Code (Pe	<u>y.</u> riod Code) will be YYY	YMMDD	
Convention	, , , , , , , , , , , , , , , , , , ,			
	Product Code: ZB	9105; initial contract fix	ed rate	
	Product Code: ZB	9205; secondary contra	act fixed rate	
	For example, the	5 Year Standard Cont	ract with Product Code	
	of ZB9105 and M	Maturity Date of 12/19	0/17 will have a ticker	
Listed Owners de	symbol of ZB9105	20171219.		
LISTED Spreads	Contracts, may be	e traded using the Swa	pBook Discrete Spread	
	runctionality.			



(4) 7 Year Standard Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
	<ul> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	7 Years		
Contract Short Name	7Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and the <yyyy-yyyy> will represent the Effective Date and the year of the Maturity date. For example, the 7Y Standard with an Effective Date in</yyyy-yyyy></month></yyyy-yyyy></month>		
	September 2014 and a Maturity Date in September 2021 will have a Contract Short Name of "7Y Stnd Sep 2014-2021"		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June,
	September, December)
	Monthly dates as provided by the Exchange in an Exchange
	Advisory.
Cash Flow Alignment	The date used for aligning all fixed and floating Reset Dates,
Date ("CFAD")	and for determination of the Maturity Date.
	CFAD can be derived by adding 7 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 7 years implies a Cash Flow Alignment Date of 09/19/2019. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.
	determining Reset Dates. Each Reset Date is subject to



	adjustment based on Modified Following convention.		
	• For example, if the CFAD is 09/19/2019, the Reset		
	Dates will be on the 19" of December, March, June and		
	September, subject to the Modified Following		
	Convention.		
Last Trading Day	I he last day on which the Contract can be traded is the NY		
	business day preceding the Maturity Date.		
	O have deep housing and developing to the Effective Date		
Date	2 London business days prior to the Effective Date.		
Other LIBOR Fixing	For all periods other than the first floating rate period, the LIBOR		
Dates	Fixing Date is 2 London business days prior to each Reset		
	Date.		
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark		
	Administration Limited (IBA).		
Daily Settlement	Eris Interest Rate Swap Futures are priced on a basis of 100,		
	similar to market practice for bonds and other futures contracts.		
(Futures-Style Price)			
	The settlement value for each Contract is defined as:		
	$S_t = 100 + A_t + B_t - C_t$		
	$S_t$ = settlement price at time t		
	$A_t$ = net present value of the future cash nows at		
	time t, based on OIS discounting		
	$D_t$ = value of the historical fixed and hoating amounts		
	Since contract inception C = Eric Drice Alignment Interact (or Eric DAI <sup>TM</sup> )		
	$C_t = Ens Frice Alignment interest (of Ens FAI).$		
	Fris Exchange and CME Clearing calculate Daily Settlement		
	Price to 4 decimals of precision (e.g. 100 1234)		
	······································		
	Eris PAI <sup>IM</sup> is a cumulative value calculated daily by applying the		
	overnight Fed Funds effective rate to the contract's NPV, using		
	an Actual/360 day-count convention. Eris PAI <sup>™</sup> will start		
	accruing on the first listing date.		
Final Settlement Price	$S_{final} = 100 + B_{final} - C_{final}$		
	Sfinal = Settlement price at maturity		
	$B_{\text{final}} = \text{Historical fixed and floating amounts since}$		
	contract inception through maturity		
	C <sub>final</sub> = Eris PAI <sup>™</sup> , at maturity		
Quoting Convention	Net Present Value (NPV) per Contract will be used for trade		
	execution.		
	NPV is expressed in per contract terms for the Buyer (fixed rate		
	payer).		



	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of		
	Trade Price = $100 + A_{negotiated} + B_t - C_t$ where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), $B_t$ is the value of the historical fixed and floating amounts, and $C_t$ is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.		
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.		
	The NPV per Contract can be negotiated in the following increments/tick sizes:		
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than two years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4 years and less than 7 years.</li> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years.</li> </ul>		
Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.		
	Block Trades may be executed at any time, including times in which the public auction market is closed.		
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.		
	Current block trade thresholds are as follows and are subject to change: • A multiple leg Block Trade is permitted as long as the		



	sum notional of the legs that are transacted		
	simultaneously meets the minimum quantity threshold		
	for the leg with the shortest Remaining Tenor.		
		Minimum	Block Size
	Remaining	Trading Hours: RTH	Trading Hours: OTH
	Tenor		
	Less than 5	\$10mm notional	\$1.0mm notional
	years	500 contracts	10 contracts
	5 years or more	\$10mm notional	\$0.5mm notional
		100 contracts	5 contracts
	Eris Exchange will	publicly report all Bloc	k Trades (instrument,
	dotails from the pa	nediately upon succes	stul receipt of the trade
Exchange of	Eris Interest Rate Swap Futures are eligible to be traded as		
Derivatives for	privately negotiate	d, off-exchange Excha	nge of Derivatives for
Related Positions	Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be ex	xecuted at any time inc	cluding times in which
	the public auction	market is closed.	
	EDRPs must be expanded Buleboy	xecuted pursuant to Ru	le 602 in the Eris
		JK.	
	There are no minir	num quantity threshold	s required for EDRP's.
	Eris Exchange doe	es not report EDRP's p	ublicly during the
	trading day; howe	ver, activity from EDRP	's is reflected in the
	of each trading da	and open interest value	es published at the end
Ticker Symbol	Maturity Code (Pe	riod Code) will be YYY	YMMDD
Convention	, , , , , , , , , , , , , , , , , , ,	,	
Convention			
Convention	Product Code: ZC	9107; initial contract fix	ed rate
	Product Code: ZC Product Code: ZC	9107; initial contract fix 9207; secondary contra	ed rate act fixed rate
	Product Code: ZC Product Code: ZC	9107; initial contract fix 9207; secondary contra 7Y contract with Produc	ed rate act fixed rate at Code of ZC9107 and
	Product Code: ZC Product Code: ZC For example, the 7 Maturity Date of 12	9107; initial contract fix 9207; secondary contra 7Y contract with Produc 2/19/19 will have a ticke	ed rate act fixed rate at Code of ZC9107 and er symbol of
	Product Code: ZC Product Code: ZC For example, the 7 Maturity Date of 12 ZC910720191219	9107; initial contract fix 9207; secondary contra 7Y contract with Produc 2/19/19 will have a ticke	ed rate act fixed rate act Code of ZC9107 and er symbol of
Listed Spreads	Product Code: ZC Product Code: ZC For example, the 7 Maturity Date of 12 ZC910720191219 Listed Spreads (or	9107; initial contract fix 9207; secondary contra 7Y contract with Produc 2/19/19 will have a ticker Discrete Spreads), con	ed rate act fixed rate at Code of ZC9107 and er symbol of mposed of Standard
Listed Spreads	Product Code: ZC Product Code: ZC For example, the 7 Maturity Date of 12 ZC910720191219 Listed Spreads (or Contracts, may be functionality	9107; initial contract fix 9207; secondary contra 7Y contract with Produc 2/19/19 will have a ticke Discrete Spreads), con traded using the Swap	ed rate act fixed rate et Code of ZC9107 and er symbol of mposed of Standard Book Discrete Spread



(6) 10 Year Standard Contract Specifications:

Trading Hours	<ul> <li>Regular Trading Hours (RTH):</li> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest payments and a stream of quarterly floating interest payments based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	10 Years		
Contract Short Name	10Y Stnd   10Y Stnd  Month>  YYYY-YYYY>, where the  Month> will be   the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and   the year of the Maturity Date   For example, the 10Y Standard with an Effective Date in   September 2014 and a Maturity Date in September 2024 will   have a Contract Short Name of "10Y Stnd Sep 2014-2024"</yyyy-yyyy>		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterlyReset FrequencyQuarterlyDay Count ConventionActual/360CurrencyUSDHoliday Calendar(s)New York, LondonBusiness Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.
	CFAD can be derived by adding 10 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 10 years implies a Cash Flow Alignment Date of 09/19/2022. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates. The Cash Flow Alignment Date will be used as the basis for
	determining Reset Dates. Each Reset Date is subject to adjustment based on Modified Following convention.

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• For example, if the CFAD is 09/19/2022, the Reset Dates will be on the 19 <sup>th</sup> of December, March, June and September, subject to the Modified Following convention	
The last day on which the Contract can be traded is the NY business day preceding the Maturity Date.	
2 London business days prior to the Effective Date.	
For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.	
3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).	
<ul> <li>Eris Interest Rate Swap Futures are priced on a basis of 100, similar to market practice for bonds and other futures contracts.</li> <li>The settlement value for each Contract is defined as:</li> <li>St = 100 + At + Bt - Ct</li> <li>St = settlement price at time t</li> <li>At = net present value of the future cash flows at time t, based on OIS discounting</li> <li>Bt = value of the historical fixed and floating amounts since contract inception</li> <li>Ct = Eris Price Alignment Interest (or Eris PAI<sup>TM</sup>).</li> <li>Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).</li> <li>Eris PAI<sup>TM</sup> is a cumulative value calculated daily by applying the overnight Fed Funds effective rate to the contract's NPV, using an Actual/360 day-count convention. Eris PAI<sup>TM</sup> will start accruing on the first listing date.</li> </ul>	
$S_{final} = 100+B_{final}-C_{final}$ $S_{final} = Settlement price at maturity$ $B_{final} = Historical fixed and floating amounts since contract inception through maturity$ $C_{final} = Eris PAI^{TM}$ , at maturity	



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Quoting Convention	Net Present Value (NPV) per Contract will be used for trade execution.
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.
	The NPV per Contract can be negotiated in the following increments/tick sizes:
	<ul> <li>\$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.</li> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years.</li> <li>\$5 for Contracts where the lesser of Remaining</li> </ul>
	<ul> <li>Tenor/Underlying Tenor is greater than greater than or equal 4 years and less than 7 years.</li> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than greater than or equal 7 years and less than 20 years.</li> </ul>



Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.		
	Block Trades may be executed at any time, including times in which the public auction market is closed.		
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.		
	<ul> <li>Current block trade thresholds are as follows and are subject to change:</li> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>		
		Minimum	Block Size
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH
	Less than 5	\$10mm notional	\$1.0mm notional
	years	100 contracts	10 contracts
	5 years or more	\$10mm notional	\$0.5mm notional
	Eris Exchange will price, quantity) imr details from the pa	publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.		
	EDRP's may be ex the public auction	xecuted at any time, ind market is closed.	cluding times in which
	EDRPs must be Exchange Ruleboo	executed pursuant to ok.	Rule 602 in the Eris
	There are no minir	mum quantity threshold	s required for EDRP's.
	Eris Exchange de trading day; howe Exchange volume of each trading da	oes not report EDRP ever, activity from EDP and open interest valu y.	's publicly during the RP's is reflected in the es published at the end



Ticker Symbol Convention	Maturity Code (Period Code) will be YYYYMMDD
	Product Code: ZC9110; initial contract fixed rate Product Code: ZC9210; secondary contract fixed rate
	For example, the 10 Year Standard Contract with Product Code of ZC9110 and Maturity Date of 12/19/22 will have a ticker symbol of ZC911020221219.
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard Contracts, may be traded using the SwapBook Discrete Spread functionality.



(7) 30 Year Standard Contract Specifications:

Trading Hours	Regular Trading Hours (RTH):		
	<ul> <li>Monday – Friday; 7:00 am to 5:00 pm Eastern Time</li> </ul>		
Contract Structure	\$100,000 notional principal whose value is based upon the difference between a stream of semi-annual fixed interest		
	payments and a stream of quarterly floating interest payments		
	based on 3 month US Dollar LIBOR, over a term to maturity.		
Underlying Swap Tenor	30 Years		
Contract Short Name	30Y Stnd <month> <yyyy-yyyy>, where the <month> will be the first three characters of the month of the Effective Date and <yyyy-yyyy> will represent the year of the Effective Date and the year of the Maturity Date</yyyy-yyyy></month></yyyy-yyyy></month>		
	For example, the 30Y Standard with an Effective Date in September 2014 and a Maturity Date in September 2044 will have a Contract Short Name of "30Y Stnd Sep 2014-2044"		
Fixed Rate	<ul> <li>Pre-determined rate set by Eris Exchange which will remain static throughout the life of the contract</li> <li>Determined just prior to quarterly listing</li> <li>Multiple fixed rates may be pre-determined</li> </ul>		
Contract Size	1 Contract = 1 lot = \$100,000 face		
Trading Conventions	Buy = Pay Fixed Sell = Receive Fixed		
Swap Futures Leg Conventions	Fixed LegSemi-Annual• Reset FrequencySemi-Annual• Day Count Convention30/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		
	Floating LegQuarterly• Reset FrequencyQuarterly• Day Count ConventionActual/360• CurrencyUSD• Holiday Calendar(s)New York, London• Business Day ConventionModified Following with adjustment to period end dates		



Effective Dates	Quarterly IMM Dates (3 <sup>rd</sup> Wednesday of each March, June, September, December) Monthly dates as provided by the Exchange in an Exchange Advisory
Cash Flow Alignment Date ("CFAD")	The date used for aligning all fixed and floating Reset Dates, and for determination of the Maturity Date.
	CFAD can be derived by adding 30 Years to the Effective Date.
	For example, an Eris Interest Rate Swap Future with an Effective Date of 09/19/2012 and a tenor of 30 years implies a Cash Flow Alignment Date of 09/19/2042. Note that the Cash Flow Alignment Date may fall on any calendar day, including weekends and holidays. The CFAD is used to determine the Maturity Date, but the two terms are distinct, as the Maturity Date must fall on a valid business day from the joint holiday calendar.
Maturity Date	The final date to which fixed and floating amounts accrue. The last date of the contract.
	Maturity Date is determined by applying the Modified Following rule to the Cash Flow Alignment Date. If the Cash Flow Alignment Date is a non-business day in either NY or London, go forward to the next day that is a business day in both NY and London. If the next valid business day is in the following month, the preceding valid business day on both the NY and London holiday calendars will be the Maturity Date.
	Eris PAI <sup>™</sup> accrues up to and including the Maturity Date.
	The Maturity Date may also be referred to as Termination Date.
Underlying Tenor	The duration of time from the Effective Date to the Cash Flow Alignment Date.
Remaining Tenor	The duration of time from today to the Cash Flow Alignment Date.
Reset Dates	Dates utilized to determine fixed and floating amounts throughout the life of the Contract. Reset Dates define the beginning and end of fixed and floating interest accrual periods. Floating Rate Reset Dates facilitate the determination of the LIBOR Fixing Dates.
	The Cash Flow Alignment Date will be used as the basis for determining Reset Dates. Each Reset Date is subject to


	<ul> <li>adjustment based on Modified Following convention.</li> <li>For example, if the CFAD is 09/19/2042, the Reset</li> </ul>				
	Dates will be on the 19 <sup>th</sup> of December, March, June and September, subject to the Modified Following				
	convention.				
Last Trading Day	The last day on which the Contract can be traded is the NY				
	business day preceding the Maturity Date.				
First LIBOR Fixing Date	2 London business days prior to the Effective Date.				
Other LIBOR Fixing Dates	For all periods other than the first floating rate period, the LIBOR Fixing Date is 2 London business days prior to each Reset Date.				
Floating Rate Index	3 Month USD LIBOR announced by the ICE Benchmark Administration Limited (IBA).				
Daily Settlement	Eris Interest Rate Swap Futures are priced on a basis of 100,				
(Futures-Style Price)	similar to market practice for bonds and other futures contracts.				
	The se	The settlement value for each Contract is defined as:			
	St	=	$100 + A_t + B_t - C_t$		
	St	=	settlement price at time t		
	A <sub>t</sub>	=	net present value of the future cash flows at		
	Bt	=	value of the historical fixed and floating amounts		
			since contract inception		
	Ct	=	Eris Price Alignment Interest (or Eris PAI <sup>1</sup> ).		
	Eris Exchange and CME Clearing calculate Daily Settlement Price to 4 decimals of precision (e.g., 100.1234).				
	Eris PAI <sup>™</sup> is a cumulative value calculated daily by applying overnight Fed Funds effective rate to the contract's NPV, us				
	an Actual/360 day-count convention. Eris PAI <sup>TM</sup> will start accruing on the first listing date.				
Final Settlement Price	S <sub>final</sub>	=	100+B <sub>final</sub> -C <sub>final</sub>		
	$S_{\text{final}}$	=	Settlement price at maturity		
	B <sub>final</sub>	=	Historical fixed and floating amounts since contract inception through maturity		
	C <sub>final</sub>	=	Eris $PAI^{TM}$ , at maturity		



Quoting Convention	Net Present Value (NP\/) per Contract will be used for trade				
	execution.				
	NPV is expressed in per contract terms for the Buyer (fixed rate payer).				
	Each Swap Future negotiated in NPV terms has an implicit futures-style trade price of				
	$Trade Price = 100 + A_{negotiated} + B_t - C_t$				
	where $A_{negotiated}$ is the NPV per Contract agreed upon between the counterparties (divided by 1,000 to normalize units to \$100 face amount), B <sub>t</sub> is the value of the historical fixed and floating amounts, and C <sub>t</sub> is Eris PAI <sup>TM</sup> at time t. The B and C components are calculated and applied by the Exchange, and are not subject to negotiation by the counterparties.				
	Eris Exchange calculates daily Eris PAI <sup>™</sup> for all trades executed between 8:30am and 5:00pm ET during RTH using the overnight fed funds effective rate that was published on the morning of the trade date. For all other trades, daily Eris PAI <sup>™</sup> is calculated using the overnight fed funds rate that was published on the morning of the previous trade date.				
	The NPV per Contract can be negotiated in the following increments/tick sizes:				
	• \$1 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is less than 2 years.				
	<ul> <li>\$2 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 2 years and less than 4 years</li> </ul>				
	<ul> <li>\$5 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 4</li> </ul>				
	<ul> <li>\$10 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 7 years and less than 20 years</li> </ul>				
	<ul> <li>\$20 for Contracts where the lesser of Remaining Tenor/Underlying Tenor is greater than or equal to 20 years.</li> </ul>				



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Block Trades	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Block Trades and reported to Eris Exchange.					
	Block Trades may be executed at any time, including times in which the public auction market is closed.					
	Block Trades must be executed and reported pursuant to Rule 601 in the Eris Exchange Rulebook.					
	Current block trade thresholds are as follows and are subject to change:					
	<ul> <li>A multiple leg Block Trade is permitted as long as the sum notional of the legs that are transacted simultaneously meets the minimum quantity threshold for the leg with the shortest Remaining Tenor.</li> </ul>					
	Minimum Block Size					
	Remaining Tenor	Trading Hours: RTH	Trading Hours: OTH			
	Less than 5 years	\$10mm notional 100 contracts	\$1.0mm notional 10 contracts			
	5 years or more	\$10mm notional	\$0.5mm notional			
		100 contracts	5 contracts			
	Eris Exchange will price, quantity) im details from the pa	I publicly report all Bloc mediately upon succes arty reporting the trade.	k Trades (instrument, sful receipt of the trade			
Exchange of Derivatives for Related Positions	Eris Interest Rate Swap Futures are eligible to be traded as privately negotiated, off-exchange Exchange of Derivatives for Related Positions (EDRPs) and reported to Eris Exchange.					
	EDRP's may be extension the public auction	xecuted at any time, ind market is closed.	cluding times in which			
	EDRPs must be executed pursuant to Rule 602 in the Eris Exchange Rulebook.					
	There are no minimum quantity thresholds required for EDRP's.					
	Eris Exchange d trading day; howe Exchange volume of each trading da	oes not report EDRF ever, activity from EDF and open interest value y.	P's publicly during the RP's is reflected in the es published at the end			



Ticker Symbol Convention	Maturity Code (Period Code) will be YYYYMMDD				
	Product Code: 7D9130: initial contract fixed rate				
	Disduct Code: ZD0000, index down contract fixed rate				
	Product Code: 2D9230; secondary contract fixed rate				
	For example, the 30 Year Standard Contract with Product Code				
	of ZD9130 and Maturity Date of 12/19/42 will have a ticker				
	symbol of ZD913020421219.				
Listed Spreads	Listed Spreads (or Discrete Spreads), composed of Standard				
	Contractor provide the device of the Court Dock Discrete Character				
	Contracts, may be traded using the SwapBook Discrete Spread				
	functionality.				

Certain elements of the contract design and pricing construct are patent pending.

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