

APPENDIX A CONTRACT SPECIFICATIONS

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CREDIT

Subject to the requirements of the Rules, Security-Based Swaps in the credit asset class may be effected:

- (a) in the Order Book pursuant to Rule 505, (ii) through a Request for Quote pursuant to Rule 508,
- (iii) as a voice-executed trade or a Brokered Trade pursuant to Rule 509 or (iv) as a Block Trade pursuant to Rule 601.

Single Name Swap – Sovereign

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on investment grade or high yield government debt.
	The seller of the credit default swap will compensate the buyer in the event
	of a debt default (by the debtor) or other credit event based upon
	an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference Obligation Type	Debt security
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices:
	Markit CDX Emerging Markets
	 Markit CDX Emerging Markets High Yield
	 Markit CDX Emerging Markets Investment Grade
	Markit iTraxx Asia Ex-Japan IG
	Markit iTraxx Asia Ex-Japan IG (Restricted)
Underlying Reference Issuer Type	Sovereign
Obligation Seniority	SNDB
UPI Contract	Standard Asia Sovereign
Specification	Standard Asia Financial Corporate
	Standard Emerging European & Middle Eastern Sovereign
	Standard Latin American Sovereign
Notional Currency	USD
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	100 basis points for investment grade debt securities. 500 basis points for high yield debt securities.

Notional Amount	As agreed by counterparties
Minimum Increment	
Notional Amount	As agreed by counterparties
Minimum Size	
Trading Conventions	Buy = Buy Protection
	Sell = Sell Protection

Payment/Settlement	Upfront Fee Payment: The upfront fee is a portion of the payments which
Conventions	is present valued and paid immediately to the seller.
	Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. • Payment Frequency: Quarterly • Business Calendar: New York • Business Day Conventions: Following • Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang
	Protocol) ("ISDA Protocols").
Swap Tenor	Any
Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	USD
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

Single Name Swap – Asia Ex-Japan (Investment Grade)

Contract Type	Credit Default Swap	
Contract Overview	An agreement to buy or sell protection on investment grade corporate debt. The seller of the credit default swap will compensate the buyer in the event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.	
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14	
Underlying Reference Obligation Type	Debt security	
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices: • Markit iTraxx Asia Ex-Japan IG • Markit iTraxx Asia Ex-Japan IG (Restricted)	
Underlying Reference Issuer Type	Corporate	
Obligation Seniority	SNDB	
UPI Contract Specification	 Standard Asia Corporate Standard Asia Financial Corporate Standard Singapore Corporate Standard Singapore Financial Corporate 	
Notional Currency	USD	
Quoting Convention	Spread and/or upfront payment	
Fixed Rate/Coupon	100 basis points	
Notional Amount Minimum Increment	As agreed by counterparties.	
Notional Amount Minimum Size	As agreed by counterparties.	
Trading Conventions	Buy = Buy Protection Sell = Sell Protection	

Payment/Settlement	Upfront Fee Payment : The upfront fee is a portion of the payments which
Conventions	is present valued and paid immediately to the seller.
	 Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. Payment Frequency: Quarterly Business Calendar: New York Business Day Conventions: Following Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").
Swap Tenor	Any
Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	USD
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

Single Name Swap – Australia (Investment Grade)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on investment grade corporate debt.
	The seller of the credit default swap will compensate the buyer in the event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference Obligation Type	Debt security
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices: • Markit iTraxx Australia
Underlying Reference Issuer Type	Corporate
Obligation Seniority	SNDB
UPI Contract Specification	 Standard Australia Corporate Standard Australia Financial Corporate Standard North American Corporate
Notional Currency	USD
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	100 basis points
Notional Amount Minimum Increment	As agreed by counterparties.
Notional Amount Minimum Size	As agreed by counterparties.
Trading Conventions	Buy = Buy Protection Sell = Sell Protection
Payment/Settlement Conventions	 Upfront Fee Payment: The upfront fee is a portion of the payments which is present valued and paid immediately to the seller. Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. Payment Frequency: Quarterly Business Calendar: New York Business Day Conventions: Following Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").

Swap Tenor	Any
	Unadjusted date at which obligations under the SB Swap come into effect.
	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	USD
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

Single Name Swap – EMEA (Investment Grade)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on investment grade corporate debt.
	The seller of the credit default swap will compensate the buyer in the event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference Obligation Type	Debt security
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices:
	Markit iTraxx Europe
	Markit iTraxx Europe Non-Financial
	Markit iTraxx Europe Senior Financial
	 Markit iTraxx Europe Subordinated Financials Index
	Markit iTraxx MSCI ESG Screened Europe
Underlying Reference Issuer Type	Corporate
Obligation Seniority	SNDB, SBOD or JUND
UPI Contract	Standard European CoCo Corporate
Specification	Standard European Corporate
	Standard European Financial Corporate
	Standard European Senior Non Preferred Financial Corporate
	Standard North American Corporate Contract
	Standard Singapore Corporate Contract
	Standard Subordinated European Insurance Corporate
Notional Currency	EUR
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	100 basis points
Notional Amount	As agreed by counterparties.
Minimum Increment	
Notional Amount	As agreed by counterparties.
Minimum Size	
Trading Conventions	Buy = Buy Protection Sell = Sell Protection

Payment/Settlement	Upfront Fee Payment: The upfront fee is a portion of the payments which is
Conventions	present valued and paid immediately to the seller.
	Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. • Payment Frequency: Quarterly • Business Calendar: Target • Business Day Conventions: Following • Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").
Swap Tenor	Any
Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	EUR
Mandatory Clearing Determination	N/A
Trade Execution	N/A
Requirement	
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

Single Name Swap – Japan (Investment Grade)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on investment grade corporate
	debt.
	The seller of the credit default swap will compensate the buyer in the
	event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference	Debt security
Obligation Type	
Underlying Reference	Debt securities of the issuers that are constituents of the following
Obligation Issuer	broad-based securities indices:
	Markit iTraxx Japan
Underlying Reference Issuer	Corporate
Type	Corporation
Obligation Seniority	SNDB
UPI Contract Specification	Standard Japan Corporate
Notional Currency	JPY
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	100 basis points
Notional Amount Minimum	As agreed by counterparties.
Increment	
Notional Amount Minimum	As agreed by counterparties.
Size	
Trading Conventions	Buy = Buy Protection
	Sell = Sell Protection
Payment/Settlement Conventions	Upfront Fee Payment : The upfront fee is a portion of the payments which is present valued and paid immediately to the seller.
	Premium Payment (Fixed Quarterly Cash Payment): Reflected in
	basis points and paid by the protection buyer to the protection seller.
	Payment Frequency: Quarterly
	Business Calendar: Tokyo
	Business Day Conventions: Following
	 Day Count Convention: ACT/360
	Buy Count Convention. AC 1/300
	Contingent Payment: Payments related to credit event settlement will
	be determined pursuant to 2009 ISDA Credit Derivatives
	Determination Committees and Auction Settlement Supplement, (<i>i.e.</i> , the Big Bang Protocol) (" ISDA Protocols ").
	inc big bang i totocol) (ISDA i totocols).
Swap Tenor	Any
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Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	JPY
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

Single Name Swap – North America (Investment Grade)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on investment grade corporate debt. The seller of the credit default swap will compensate the buyer in the event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference Obligation Type	Debt security
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices: • Markit CDX North America Investment Grade • Markit CDX North America Investment Grade (BBB- rated)
Underlying Reference Issuer Type	Corporate
Obligation Seniority	SNDB
UPI Contract Specification	Standard North American Corporate
Notional Currency	USD
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	100 basis points
Notional Amount Minimum Increment	As agreed by counterparties
Notional Amount Minimum Size	As agreed by counterparties
Trading Conventions	Buy = Buy Protection Sell = Sell Protection

Upfront Fee Payment : The upfront fee is a portion of the payments
which is present valued and paid immediately to the seller.
Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. • Payment Frequency: Quarterly • Business Calendar: New York • Business Day Conventions: Following • Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").
Any
Unadjusted date at which obligations under the SB Swap come into effect.
Unadjusted date at which obligations under the SB Swap stop being effective.
Financially settled
Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
USD
N/A
h
N/A
00:01-24:00 Sunday-Friday; Eastern Time
00:01-24:00 Sunday-Friday; Eastern Time

Single Name Swap – North America (High Yield)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on high yield corporate debt.
	The seller of the credit default swap will compensate the buyer in the event of a debt default (by the debtor) or other credit event based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority] [Tenor] D14
Underlying Reference Obligation Type	Debt security
Underlying Reference Obligation Issuer	Debt securities of the issuers that are constituents of the following broad-based securities indices:
	Markit CDX North America High Yield
	Markit CDX North America High Yield (BB)
	Markit CDX North America High Yield (Ex-BB)
Underlying Reference Issuer Type	Corporate
Obligation Seniority	SNDB
UPI Contract Specification	Standard North American Corporate
Notional Currency	USD
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	500 basis points
Notional Amount Minimum Increment	As agreed by counterparties.
Notional Amount Minimum Size	As agreed by counterparties.
Trading Conventions	Buy = Buy Protection Sell = Sell Protection

Payment/Settlement	Upfront Fee Payment : The upfront fee is a portion of the payments
Conventions	which is present valued and paid immediately to the seller.
	Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. • Payment Frequency: Quarterly • Business Calendar: New York • Business Day Conventions: Following • Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").
Swap Tenor	Any
Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	USD
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Trading Hours	
Settlement Procedure	As determined by the Clearing House or Bilateral
U	As determined by the Clearing House or Bilateral ICE Clear Credit LLC, LCH SA

Single Name Swap – Non-North America (High Yield)

Contract Type	Credit Default Swap
Contract Overview	An agreement to buy or sell protection on high yield corporate debt.
	The seller of the credit default swap will compensate the buyer in the
	event of a debt default (by the debtor) or other credit event
	based upon an agreed upon notional amount.
Ticker	[Issuer short name] CDS [Notional currency] [Debt Seniority]
	[Tenor] D14
Underlying Reference	Debt security
Obligation Type	
Underlying Reference	Debt securities of the issuers that are constituents of the following
Obligation Issuer	broad-based securities indices:
	Markit iTraxx Europe Crossover
Underlying Reference Issuer	Corporate
Туре	
Obligation Seniority	SNDB or SBOD
UPI Contract Specification	Standard Emerging European Corporate
	Standard European Corporate
	Standard Latin America Corporate B
Notional Currency	EUR
Quoting Convention	Spread and/or upfront payment
Fixed Rate/Coupon	500 basis points
Notional Amount Minimum	As agreed by counterparties.
Increment	
Notional Amount Minimum Size	As agreed by counterparties.
Trading Conventions	Buy = Buy Protection
	Sell = Sell Protection

Payment/Settlement	Upfront Fee Payment: The upfront fee is a portion of the payments
Conventions	which is present valued and paid immediately to the seller.
	 Premium Payment (Fixed Quarterly Cash Payment): Reflected in basis points and paid by the protection buyer to the protection seller. Payment Frequency: Quarterly Business Calendar: Target Business Day Conventions: Following Day Count Convention: ACT/360 Contingent Payment: Payments related to credit event settlement will be determined pursuant to 2009 ISDA Credit Derivatives Determination Committees and Auction Settlement Supplement, (i.e., the Big Bang Protocol) ("ISDA Protocols").
Swap Tenor	Any
Effective Date	Unadjusted date at which obligations under the SB Swap come into effect.
Maturity/Expiration Date	Unadjusted date at which obligations under the SB Swap stop being effective.
Settlement Method	Financially settled
Final Settlement Date	Same as Expiration Date, unless there is a Credit Event (which such Credit Event is determined by ISDA Protocols). If there is a Credit Event, the final Contractual Settlement Date is determined by Credit Event rules.
Settlement Currency	EUR
Mandatory Clearing Determination	N/A
Trade Execution Requirement	N/A
Trading Hours	00:01-24:00 Sunday-Friday; Eastern Time
Settlement Procedure	As determined by the Clearing House or Bilateral
Clearing House	ICE Clear Credit LLC, LCH SA
Block Size	N/A

EQUITY

Subject to the requirements of the Rules, Swaps in the equity asset class may be effected (i) in the Order Book pursuant to Rule 505, (ii) as a voice-executed trade or a Brokered Trade pursuant to Rule 509 or (iii) as a Block Trade pursuant to Rule 601.

Total Return Security-Based Swap – Single Name and Narrow-Based Indices

Contract Type	Total Return Security-Based Swap
Contract Overview	A contract to pay or receive regular fixed or floating interest payments on a notional amount in exchange for a notional based return performance of a single name equity or narrow based equity index (9 or fewer security components)
	An Equity Security-Based Swap may be either a Total Return Security-Based Swap whereupon the return performance of a single name equity or narrow based equity index includes a dividend stream or Price Return Security-Based Swap whereupon the return performance of an equity index excludes a dividend stream.
Trading Conventions	An equity security-based swap buyer pays a rate of interest plus a spread on a notional amount in return for any appreciation/depreciation of the single name or narrow based equity index on the notional amount
	An equity security-based swap seller receives a rate of interest plus a spread on a notional amount and pay any appreciation/depreciation of the single name or narrow based equity index on the notional amount
	Where the equity security-based swap is structured as a Total Return Swap, the appreciation/depreciation includes returns due (e.g. dividends) from the underlying single name or narrow based index over the security-based swap period.
	Where the Equity Security-Based Swap is structured as a Price Return Security-Based Swap, the appreciation/depreciation excludes returns due from the single name or narrow based underlying index over the swap period.
	Key Components: Equity Return (Total Return on Stock) = (Change in Stock Price + Dividends) Fixed Financing Payment = (Notional Amount * Fixed Rate) * (Days / 360) Floating Financing Payment = (Notional Amount * Floating Rate) * (Days / 360)
Underlying Equity	As agreed by Participants, Single name or narrow-based equity indices
Currency	USD, EUR, JPY, SGD, HKD, CNH, CNY dependent on underlying Equity

Trade Date	Date which trade terms agreed
Maturity	As agreed by Participants – Any maturity up to 50yrs
Notional	As agreed by Participants – E.G. 5m (USD, EUR or JPY)
Floating Leg	Cashflow: xM SOFR + Spread or an agreed fixed rate Frequency: Determined by agreed SOFR (3m, 6m etc.) or agreed fixed rate frequency DayCount: Act/360. Calculation: Notional Amount * SOFR (plus basis points spread) * Days/360
Equity Leg	Notional x (% increase of equity index over floating rate period). Calculation: Notional Amount * Fixed Rate
Settlement	Cash settlement as per floating rate schedule
Business Day Convention	As agreed by Participants
Quote Convention	Quoted in bps as a spread or fixed rate
Trade Types	Outright Spread: Equity swap in one index versus an equity swap in another. The total return of the underlying asset (the equity) is exchanged against the payment of a floating rate (SOFR or Benchmark) or a fixed rate.
Tenors	As agreed by Participants, 1 day to 50 Years