

Merrill Lynch International

Form SBSE-A

Supplemental Filing Attachment:

Amendment to Schedule B, Section II

Item 13B

October 9, 2023

Merrill Lynch International - Response to Item 13B of Form SBSE-A with respect to arrangements with others who Execute or Trade

Venue Legal Entity Name	Business Address	LEI
AQUIS EXCHANGE PLC	77 Cornhill, LONDON, UNITED KINGDOM, EC3V 3QQ	213800IXJ5F5E1SIW150
AUREL BGC	BGC AUREL ETC POLLAK 15 17, PARIS, FRANCE, 75002	5RJTDGZG4559ESIYLD31
BGC DERIVATIVE MARKETS, L.P.	C/O THE CORPORATION TRUST COMPANY, CORPORATION TRUST CENTER 1209 ORANGE ST, 19801, WILMINGTON, US United States of America	549300RKB6B4M8CD2W04
BLOOMBERG SEF LLC	731 LEXINGTON AVENUE, NEW YORK , UNITED STATES, 10022	5493003IUYOH354SNS58
BLOOMBERG TRADEBOOK CANADA COMPANY	BROOKFIELD PLACE,TD CANADA TRUST TOWER 1, TORONTO, CANADA, M5J 2S1	254900N3K8DHWXXMF546
BLOOMBERG TRADEBOOK LLC	731 LEXINGTON AVE, New York, UNITED STATES, 100221331	549300P0PVQNO437K36
BLOOMBERG TRADEBOOK SINGAPORE PTE LTD	23 Church Street, SINGAPORE, SINGAPORE, 49481	254900HSS82AHMTPAD95
BLOOMBERG TRADING FACILITY B.V.	Stadhouderskade 14, Amsterdam, NETHERLANDS, 1054 ES	254900QBKK4WBSO3GE51
BLOOMBERG TRADING FACILITY LIMITED	3 Queen Victoria Street, LONDON, UNITED KINGDOM, EC4N 4TQ	549300ROEJDDAXM6LU05
BOLSAS Y MERCADOS ESPAÑOLÉS RENTA FIJA SA.	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	95980096HCV0D0TYCR12
BORSE BERLIN AG	Fasanenstr. 85, Berlin, GERMANY, 10623	391200I7OS301UELZA68
BROKERTEC EUROPE LIMITED	LONDON FRUIT AND WOOL EXCHANGE, 1 DUVAL SQUARE, E1 6PW, London	2138002GI1GKI3V4UG48
CBOE EUROPE LIMITED	The Monument Building, LONDON, UNITED KINGDOM, EC3R 8AF	254900ERRPSKE7UZH711
CBOE TRADING, INC.	5th Floor, the Monument Building, London, EC3R8AF	
DEUTSCHE BORSE AG	Mergenthalerallee 61, Eschborn, GERMANY, 65760	529900G3SW56SHYNPR95
DIGITAL VEGA FX LTD	9Th Floor, LONDON, UNITED KINGDOM, EC2V 6DN	213800GQ81SBZ7SCHZ94
EBS SERVICE COMPANY LIMITED	LAVATERSTRASSE 40, 8002, ZURICH, CH-ZH, CH Switzerland, Swiss Confederation	213800Y1KZLBMHGMTJ05
EUROMTS LTD	7TH FLOOR, 110 CANNON STREET, LONDON, EC4N 6EU, GB	213800OANOWGT2KW8O63
EURONEXT AMSTERDAM N.V.	Beursplein 5, Amsterdam, NETHERLANDS, 1012 JW	724500V6UOK62XEZ2L78
EURONEXT BRUSSELS SA	Rue du Marquis 1, Internal Postal Box 1, Bruxelles, BELGIUM, 1000	5493007YLUF2KAS0TM17
EURONEXT LISBON - SOCIEDADE GESTORA DE MERCADOS REGULAMENTADOS, S.A.	AVENIDA DA LIBERDADE, 196 7º, LISBOA, PORTUGAL, 1250-147	529900K0OK4J5I7A5V66
EURONEXT PARIS SA	PARIBOURSE SBF SOC BOURSES FRANCAISES, COURBEVOIE, FRANCE, 92400	969500HMSVZ0TCV65D58
GLMX TECHNOLOGIES LLC	330 7th Ave FL 17, New York, UNITED STATES, 100015246	254900ASG2SHGJG66W93
HUDSON RIVER TRADING EUROPE LTD.	2nd Floor, 12 Steward Street, E1 6FQ, London, United Kingdom	213800QDJQNB4546YV16
INTERCONTINENTAL EXCHANGE, INC.	5660 New Northside Dr 3, Atlanta, UNITED STATES, 303285800	5493000F4Z033MV32P92
ISWAP Euro B.V.	Vijzelstraat 68 Unit 109, Amsterdam, 1017 HL, Netherlands	213800ZGMHGG92WXVFB36
LMAX LTD	Monsoon Building, LONDON, UNITED KINGDOM, W11 4AN	21380034TU2TI8CNZ578
LONDON STOCK EXCHANGE PLC	The London Stock Exchange, LONDON, UNITED KINGDOM, EC4M 7LS	213800D1EI4B9WTWWD28
MARKETAXESS NL B.V.	Herengracht 280, Amsterdam, NETHERLANDS, 1016 BX	5299000UUYW66L5LT560
MARKETAXESS SINGAPORE PTE. LIMITED	10 Collyer Quay, SINGAPORE, SINGAPORE, 49315	529900GFVFMKAFCMTO75
MTS SPA	VIA TOMACELLI 146, 00186, ROME, Italy	213800ZMKPUV1VKLCT69
OTCX TRADING LIMITED	Albert Buildings, LONDON, UNITED KINGDOM, EC4N 4SA	(blank)
SIX SWISS EXCHANGE AG	Hardturmstrasse 201, ZÜRICH, SWITZERLAND, 8005	529900HQ12A6FGDMWA17
THE LONDON METAL EXCHANGE	10 Finsbury Square, LONDON, UNITED KINGDOM, EC2A 1AJ	213800NB8G5VRT1DXC91
THE TEL-AVIV STOCK EXCHANGE LTD	2 AhuzaBayit, Tel Aviv - Jaffa, 6525216, Israel	
TRADEWEB EUROPE LTD	1 Fore Street Avenue, LONDON, UNITED KINGDOM, EC2Y 9DT	2138001WXZQOPMPA3D50
TRADEWEB GLOBAL LLC	1177 Ave of The Americas, New York, UNITED STATES, 100362714	5493009DYKOCXWBRCS24
TRADEWEB JAPAN KK	level 26, Kyobashi Edo grand, 2-2-1, Kyobashi, Chuo-Ku, Tokyp, Japan 104-0031	

TRADEWEB MARKETS LLC	2200 PLAZA FIVE, Jersey City, UNITED STATES, 73114006	5493000G5QHJUY9ZWQ91
TRADITION (UK) LIMITED	Rue de Langallerie 11, Compagnie Financiere Tradition SA, 1003, Lausanne, Switzerland	506700XNPBE4M72EJU82
TRAYPORT LTD	7Th Floor, LONDON, UNITED KINGDOM, EC2A 2AP	213800PICGAHUDMI1Z46
TSAF OTC S.A.	9 PL VENDOME, 75001, PARIS 1, FR France, French Republic	969500V058ZSY03FNX80
TURQUOISE GLOBAL HOLDINGS EUROPE B.V.	NIEUWEZIJD VOORBURG WAL 162, SUITE 108, 1012 SJ, AMSTERDAM, NL Netherlands	213800ZA8TWTNVG43376
TURQUOISE GLOBAL HOLDINGS LTD	The London Stock Exchange, LONDON, UNITED KINGDOM, EC4M 7LS	2138006SKBMJJUE2HV03
VIRTU ITG EUROPE LIMITED	Whitaker Court, Whitaker Square, Sir John Rogerson's Quay, DUBLIN 2, D02 W529	213800EEC95PRUCEUP63
WEMATCH.LIVE R&D LTD	121 Begin Menachem Rd, TEL AVIV-JAFFA, ISRAEL, 6701203	894500EG497MGE7BSI77
YELDBROKER PTY LIMITED	L 6 14 MARTIN PLACE, SYDNEY, AUSTRALIA, 2000	549300QRJM24CLE17N18

Merrill Lynch International - Response to Item 13B of Form SBSE-A with respect to arrangements with others who Custody, Clear, or Settle

Entity Name	External LEI	Full Address of Third Party	Location	Category	Sub category	Product
AO Citibank	CHSQDSVI1UI96Y2SW097	8-10, bld.1, Gasheka street, Moscow, 125047, Russia	RUSSIAN FEDERATION	Partner Bank	Securities Partner Bank	Sub Custodian
AO RAIFFEISENBANK	2534006HF1L4YF10UD91	Joint stock company Raiffeisenbank 17, Troitskaya str., bld. 1 Moscow 129090 Russia	Kazakhstan	Partner Bank	Securities Partner Bank	Sub Custodian
BANCO NACIONAL DE MEXICO, S.A.	2SFFM4FUIE05S37WU55	Actuario Roberto Medellin. 800 Colonia Santa Fe Mexico D.F 01219	MEXICO	Partner Bank	Securities Partner Bank	Sub Custodian
BANK POLSKA KASA OPIEKI SA	5493000LKS7B3UTF7H35	Żwirki i Wigury 31, 02-091 Warsaw, Poland	POLAND	Partner Bank	Securities Partner Bank	Sub Custodian
BANQUE CENTRALE DE COMPENSATION (LCH SA)	R1IO4YJ0079SMWVCHB58	18 RUE DU 4 SEPTEMBRE, 75002, Paris, FR-75, France	FRANCE	Financial Market Utility	Central Counterparty (CCP)	CDS Clear
BANQUE CENTRALE DE COMPENSATION (LCH SA)	R1IO4YJ0079SMWVCHB58	18 RUE DU 4 SEPTEMBRE, 75002, Paris, FR-75, France	FRANCE	Financial Market Utility	Central Counterparty (CCP)	Fixed Income
BANQUE CENTRALE DE COMPENSATION (LCH SA)	R1IO4YJ0079SMWVCHB58	18 RUE DU 4 SEPTEMBRE, 75002, Paris, FR-75, France	FRANCE	Financial Market Utility	Central Counterparty (CCP)	Cash Equity and Derivatives
BNP PARIBAS Australia Branch	ROMUWSFPU8MPRO8K5P83	Level 4, 60 Castlereagh Street, Sydney, NSW, 2000, Australia	NEW ZEALAND	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A. Niederlassung Deutschland	ROMUWSFPU8MPRO8K5P83	Senckenberganlage 19, 60325 Frankfurt am Main, Germany	AUSTRIA	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A. Niederlassung Deutschland	ROMUWSFPU8MPRO8K5P83	Senckenberganlage 19, 60325 Frankfurt am Main, Germany	GERMANY	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A., Succursale Italia	ROMUWSFPU8MPRO8K5P83	Piazza Lina Bo Bardi 3, 20124 Milano, Italy 20124 Milano	ITALY	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS SA	ROMUWSFPU8MPRO8K5P83	Les Grands Moulin de Pantin, 9 Rue du Debarcadere 93500 Pantin, France	FRANCE/Portugal	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS SA SUCURSAL EN ESPANA	ROMUWSFPU8MPRO8K5P83	Calle de Emilio Vargas 4, 28043 Madrid, Spain	SPAIN	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS, Paris, Zurich Branch	ROMUWSFPU8MPRO8K5P83	Selnaustrasse 16, PO Box, 8022 Zurich, Switzerland	SWITZERLAND	Partner Bank	Securities Partner Bank	Sub Custodian

CASSA DI COMPENSAZIONE E GARANZIA SPA	8156006407E264D2C725	VIA TOMACELLI, 146, 00186, Roma, Italy	ITALY	Financial Market Utility	Central Counterparty (CCP)	Cash Equity and Derivatives
Cboe Clear Europe N.V.	724500937F740MHCX307	Strawinskylaan 1847, Tower I, Level 3, 1077XX, Amsterdam, NL, Netherlands	NETHERLANDS	Financial Market Utility	Central Counterparty (CCP)	Equity
CITIBANK ANONIM SIRKETI	CWZ8NZDH5SKY12Q4US31	Tekfen Tower, Eski Buyukdere Caddesi 209 Kat 2, Postal Code 34394 Levent, Istanbul - Turkey	TURKEY	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK BERHAD	E57ODZWZ7FF32TWEFA76	Level 43, Securities Services, Menara Citibank, 165 Jalan Ampang, 50450 Kuala Lumpur, Malaysia	MALAYSIA	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK DEL PERU S.A.	MYTK5NHH1G8TVFGT193	Canaval y Moreyra 480, Piso 3, San Isidro, Lima 27, Peru	PERU	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK EUROPE PLC, GREECE BRANCH	N1FBEDJ5J41VKZLO2475	8 Othonos street, 10557 Athens, Greece	GREECE / CYPRUS	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK KAZAKHSTAN	95XXGORQK31JZP82OG22	ул.Зенкова, дом 26/41, 050020, Almaty, Kazakhstan	KAZAKHSTAN	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK KOREA INC.	745P3MMS7E8CUVXDRJ82	50, Saemunan-ro, Jongno-gu, Seoul, 03184, Korea	SOUTH KOREA	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK N.A. (MUMBAI BRANCH)	E57ODZWZ7FF32TWEFA76	Citibank N.A. FIFC, C-54 & 55, G Block, Bandra Kura Complex, Bandra East, Mumbai - 400051	INDIA	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK N.A. EGYPT	E57ODZWZ7FF32TWEFA76	Level 3, 46, Al Salam Axis Street, First Sector at the Fifth Settlement, New Cairo – Cairo, Egypt	EGYPT	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK N.A. ISRAEL BRANCH	E57ODZWZ7FF32TWEFA76	Ha'arba'a 21 Tel Aviv	ISRAEL	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK N.A., PAKISTAN	E57ODZWZ7FF32TWEFA76	Army Welfare Trust (AWT) Plaza, I.I.Chundrigar Road, Karachi, Pakistan- 74200	PAKISTAN	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK NA (PHILIPPINES BRANCH)	E57ODZWZ7FF32TWEFA76	Citibank N.A. Philippine Branch 16th Floor, Citibank Plaza, 34th St., Bonifacio Global City, Taguig City, Metro Manila ,Philippines 1634	PHILIPPINES	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK SINGAPORE LIMITED	549300BSM2K5JOIUQ068	8 Marina View, #16-00 Asia Square Tower 1, Singapore 018960	SINGAPORE	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK, N.A. (BANGKOK BRANCH)	E57ODZWZ7FF32TWEFA76	18th Floor, 399 Interchange 21 Building, Sukhumvit Road, Klongtoey Nua, Wattana District, Bangkok 10110, THAILAND	THAILAND	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK, N.A. (HONG KONG BRANCH)	E57ODZWZ7FF32TWEFA76	Citi HK address: 50/F, Champion Tower, Three Garden Road, Central, Hong Kong	CHINA	Partner Bank	Securities Partner Bank	Sub Custodian

		Citi China address: 35/F, Citigroup Tower, No.33 Hua Yuan Shi Qiao Road, Lu Jia Zui Finance and Trade Zone, Shanghai, 200120, P.R. China				
CITIBANK, N.A. (HONG KONG BRANCH)	E57ODZWZ7FF32TWEFA76	50/F Citibank Tower, Citibank Plaza, 3 Garden Road, Central, Hong Kong	HONG KONG	Partner Bank	Securities Partner Bank	Sub Custodian
Citibank, N.A. Brazilian Branch	E57ODZWZ7FF32TWEFA76	Av. Paulista 1.111, 12º andar, CEP: 01311-920 São Paulo SP	BRAZIL	Partner Bank	Securities Partner Bank	Sub Custodian
CITIGROUP PTY LIMITED	0C45RG70GW42XSBLJ131	Level 16, 120 Collins Street, Melbourne VIC 3000	AUSTRALIA	Partner Bank	Securities Partner Bank	Sub Custodian
CITITRUST COLOMBIA S A SOCIEDAD FIDUCIARIA	549300242J3IJCOSGI49	Carrera 9A, No. 99-02, Bogota, Colombia	COLOMBIA	Partner Bank	Securities Partner Bank	Sub Custodian
CLEARSTREAM BANKING AG	549300298FD7AS4PPU70	Mergenthalerallee 61, 65760, Eschborn, Germany	GERMANY	Financial Market Utility	Central Securities Depository (CSD)	Securities
CLEARSTREAM INTERNATIONAL SA	5493000L514RA0SXJJ44	11 Westferry Circus, Canary Wharf, London, E14 4HE, United Kingdom	LUXEMBOURG	Partner Bank	Securities Partner Bank	International Central Securities Depository
EUREX CLEARING AG	529900LN3S50JPU47S06	Mergenthalerallee 61 65760 Eschborn, DE-HE Germany	GERMANY	Financial Market Utility	Central Counterparty (CCP)	OTC IRS
EUREX CLEARING AG	529900LN3S50JPU47S06	Mergenthalerallee 61 65760 Eschborn, DE-HE Germany	GERMANY	Financial Market Utility	Central Counterparty (CCP)	Transactions at Eurex Deutschland
EUREX CLEARING AG	529900LN3S50JPU47S06	Mergenthalerallee 61 65760 Eschborn, DE-HE Germany	GERMANY	Financial Market Utility	Central Counterparty (CCP)	Frankfurt Stock Exchange Equities and Repo
EUROCLEAR BANK SA	5493000Z46BRLZ8Y6F65	1 Boulevard du Roi Albert II, B – 1210 Brussels, Belgium	BELGIUM	Partner Bank	Securities Partner Bank	International Central Securities Depository
EUROCLEAR FRANCE	54930060MY6S68NEUP16	Euroclear France: 66 rue de la Victoire, 75009 PARIS	France	Financial Market Utility	Central Securities Depository (CSD)	Securities
EUROCLEAR UK & INTERNATIONAL LTD	549300M5MYAD51WHJD55	Euroclear UK & International Ltd, 33 Cannon Street, London EC4M 5SB, United Kingdom	UNITED KINGDOM	Financial Market Utility	Central Securities Depository (CSD)	Securities - CREST

HSBC BANK (CHINA) COMPANY LIMITED	300300C1050131000118	33rd Floor, HSBC Building, Shanghai ifc, 8 Century Avenue, Pudong, Shanghai, China (200120)	CHINA	Partner Bank	Securities Partner Bank	Sub Custodian
HSBC BANK (TAIWAN) LIMITED	549300SG184IVNYDMN03	13F, No. 333 Keelung Road, Sec. 1, Xinyi District, Taipei 110, Taiwan	TAIWAN	Partner Bank	Securities Partner Bank	Sub Custodian
HSBC BANK (VIETNAM) LIMITED	213800H95OG9OHR4Y78	The Metropolitan, Floor 2, 235 Dong Khoi Street, District 1, Ho Chi Minh city, Vietnam	VIETNAM	Partner Bank	Securities Partner Bank	Sub Custodian
HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH	549300F99IL9YJDWH369	Qibla Area, Hamad Al-Saqr St., Kharafi Tower, G/1/2 Floors, P.O Box 1683, Safat 13017 Kuwait	KUWAIT	Partner Bank	Securities Partner Bank	Sub Custodian
HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH	549300F99IL9YJDWH369	Securities Services Department (HSS Dept), 2nd Floor, Ali Bin Ali Tower Building no: 150, Al Matar Street (Airport Road), P.O.Box 57. Street no. 950, Ummghuwalina Area, Doha, Qatar	QATAR	Partner Bank	Securities Partner Bank	Sub Custodian
HSBC SAUDI ARABIA	2138009S6SHV5GLS7987	HSBC Head Office, 2nd Floor, 7267 Olaya, Al Murooj, Riyadh 12283-2255, Kingdom of Saudi Arabia	SAUDI ARABIA	Partner Bank	Securities Partner Bank	Sub Custodian
ICE CLEAR CREDIT LLC	T33OE4AS4QXS2TT7X50	353 North Clark Street, Chicago, 60654, US	UNITED STATES	Financial Market Utility	Central Counterparty (CCP)	CDS
ICE CLEAR EUROPE LTD	5R6J7JCQRIPQR1EEP713	MILTON GATE, 60 CHISWELL STREET, London EC1Y 4SA, GB	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	Listed
ICE CLEAR EUROPE LTD	5R6J7JCQRIPQR1EEP713	MILTON GATE, 60 CHISWELL STREET, London EC1Y 4SA, GB	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	CDS
Islandsbanki HF.	549300PZMFIQR79Q0T97	Hagasmára 3, 201, Kópavogur, IS-1, Iceland	ICELAND	Partner Bank	Securities Partner Bank	Sub Custodian
ITAU DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A.	BZO2P8KHO2O10H5QQ663	Avenida Brigadeiro Faria Lima, 3500, 3 Andar Parte, Sao Paulo, SP, 0453-8132	BRAZIL	Partner Bank	Securities Partner Bank	Sub Custodian
ITAU UNIBANCO S/A.	549300C1N8WOCC1VR551	Alfredo Egydio de Souza Aranha 100, Sao Paulo, SP 0434-4902	BRAZIL	Partner Bank	Securities Partner Bank	Sub Custodian
JOINT STOCK COMPANY "CITIBANK"	549300E0ROTI7ACBZH02	Bud.16-g, Dilova Str, 03150, Kyiv, Ukraine	UKRAINE	Partner Bank	Securities Partner Bank	Sub Custodian
KBC Bank Bulgaria EAD	5299009KAL4KO7584196	55 Nikola Vaptsarov Blvd., Expo 2000, Phase III, 4 floor, 1407 Sofia, Bulgaria	BULGARIA	Partner Bank	Securities Partner Bank	Sub Custodian
LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	SwapClear (SCM)

LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	RepoClear (SCM)
LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	EquityClear (SCM)
LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	Listed Interest Rates (SCM)
LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	ForexClear (SCM)
LME CLEAR LTD	213800L8AQD59D3JRW81	10 FINSBURY SQUARE, EC2A 1AJ, London, UK	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	Metals and Metal Options
CITIBANK, N.A. NEW YORK OFFICES - CHILE	8B4EFY8IHJC44TT2K84	Estado 260, Level 2, Santiago, Chile 8320204	CHILE	Partner Bank	Securities Partner Bank	Sub Custodian
N A CITIBANK	E57ODZWZ7FF32TWFA76	388 Greenwich Street New York NY 10013	UNITED STATES	Partner Bank	Securities Partner Bank	Sub Custodian
SKANDINAVISKA ENSKILDA BANKEN AB	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	FINLAND	Partner Bank	Securities Partner Bank	Sub Custodian
SKANDINAVISKA ENSKILDA BANKEN AB	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Denmark	Partner Bank	Securities Partner Bank	Sub Custodian
SKANDINAVISKA ENSKILDA BANKEN AB	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Norway	Partner Bank	Securities Partner Bank	Sub Custodian
SKANDINAVISKA ENSKILDA BANKEN AB	549300ND1MQ8SNNYMJ22	2 Tornimäe Street, Tallinn 15010, Estonia;	Estonia	Partner Bank	Securities Partner Bank	Sub Custodian
SKANDINAVISKA ENSKILDA BANKEN AB	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Sweden	Partner Bank	Securities Partner Bank	Sub Custodian
SOCIETE GENERALE MAROCAINE DE BANQUES SA	549300WHIMVBNIDQWK21	55, Boulevard Abdelmoumen, Casablanca, 20100, Morocco	MOROCCO	Partner Bank	Securities Partner Bank	Sub Custodian
STANBIC IBTC BANK PLC	029200098C3K8BI2D551	Stanbic I.B.T.C Bank PLC I.B.T.C Place Walter Carrington Crescent Victoria Island Lagos Nigeria	NIGERIA	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK (INDONESIA BRANCH)	RILFO74KP1CM8P6PCT96	World Trade Center II, 3rd Floor Jl.Jend. Sudirman Kav.29-31 Jakarta 12920	INDONESIA	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK (MAURITIUS) LIMITED	549300R0Q58QYRNZLS10	Standard Chartered Bank (Mauritius) Limited	MAURITIUS	Partner Bank	Securities Partner Bank	Sub Custodian

		Standard Chartered Tower 19th Bank Street, Cybercity 72201 Ebene, Mauritius				
STANDARD CHARTERED BANK GHANA PLC	549300WFGKTC3MGDCX95	PO Box 768, Standard Chartered Bank Building, no.87 Independence Avenue, Accra, Ghana	Ghana	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK KENYA LTD	549300RBHWW5EJRG629	Standard Chartered Bank Kenya Limited, Standard Chartered@Chiromo, 48 Westlands Road, P. O. Box 30003 - 00100, Nairobi, Kenya	KENYA	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, BAHRAIN BRANCH	RILFO74KP1CM8P6PCT96	Manama Main Branch, Building no.180, Government Avenue, Manama 315. Kingdon of Bahrain	BAHRAIN	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, BANGLADESH BRANCH	RILFO74KP1CM8P6PCT96	67 Gulshan Avenue, Dhaka, Bangladesh	BANGLADESH	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, DIFC BRANCH	RILFO74KP1CM8P6PCT96	Standard Chartered Bank, Building 1, DIFC, 4th Floor, PO Box 999, Dubari, UAE	UNITED ARAB EMIRATES	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, JORDAN BRANCH	RILFO74KP1CM8P6PCT96	Standard Chartered Bank, Shemissani Main Building, Al Thakafa Street, Amman - 111910, Jordan	JORDAN	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, OMAN BRANCH	RILFO74KP1CM8P6PCT96	Standard Chartered Bank, Bait Al Falaj Street, Ruwi, Sultanate of Oman	OMAN	Partner Bank	Securities Partner Bank	Sub Custodian
STANDARD CHARTERED BANK, UAE BRANCH	RILFO74KP1CM8P6PCT96	Standard Chartered Bank, Building 1, DIFC, 4th Floor, PO Box 999, Dubari, UAE	UNITED ARAB EMIRATES	Partner Bank	Securities Partner Bank	Sub Custodian
STATE STREET BANK AND TRUST COMPANY	549300ZFEEJ2IP5VME73	State Street Financial Center 1 Lincoln Street Boston MA 02111	UNITED STATES	Partner Bank	Securities Partner Bank	Sub Custodian
THE BANK OF NEW YORK MELLON	HPFHU00Q28E4N0NFVK49	240 Green Street, New York, NY 10286	UNITED STATES	Partner Bank	Securities Partner Bank	Sub Custodian
The Branch of CITIBANK, N.A. in the Republic of Argentina	579100KKDGKCFKKF005	Bartolomé Mitre 530 –3rd floor, Buenos Aires, C1036AAJ, Argentina	ARGENTINA	Partner Bank	Securities Partner Bank	Sub Custodian
THE HONGKONG AND SHANGHAI BANKING CORPORATION LIMITED (SRI LANKA BRANCH)	2HI3YI5320L3RW6NJ957	No 24, Sir Baron Jayatilaka Mawatha, Colombo 1, Sri Lanka	SRI LANKA	Partner Bank	Securities Partner Bank	Sub Custodian
THE STANDARD BANK OF SOUTH AFRICA LTD	QFC8ZCW3Q5PRXU1XTM60	Investor Services, 3rd Floor, 25 Pixley Ka Isaka Seme Street, Johannesburg, 2001	SOUTH AFRICA	Partner Bank	Securities Partner Bank	Sub Custodian
UNICREDIT BANK CZECH REPUBLIC AND SLOVAKIA, A.S.	KR6LSKV3BTSJRD41IF75	Želetavská 1525/1, 140 92 Praha 4 - Michle, Czech Republic	CZECH REPUBLIC	Partner Bank	Securities Partner Bank	Sub Custodian
UniCredit Bank Czech Republic and Slovakia, a.s., Pobočka Zahraničnej Banky	KR6LSKV3BTSJRD41IF75	Šancová 1/A 813 33 Bratislava	SLOVAK REPUBLIC	Partner Bank	Securities Partner Bank	Sub Custodian

UNICREDIT BANK HUNGARY ZRT.	Y28RT6GGYJ696PMW8T44	Szabadság tér 5-6. HU-1054 Budapest	HUNGARY	Partner Bank	Securities Partner Bank	Sub Custodian
UNICREDIT BANK S.A.	5493003BDYD5VPGUQS04	1F Expozitiei Blvd. RO-012101, Bucharest 1, Romania	ROMANIA	Partner Bank	Securities Partner Bank	Sub Custodian
UNICREDIT BANK SRBIJA A.D.	52990001O0THU00TYK59	Jurija Gagarina 12, Belgrade Business Center 11070 Novi Beograd, Srbija	SERBIA	Partner Bank	Securities Partner Bank	Sub Custodian
UNICREDIT BANKA SLOVENIJA d.d.	54930002UN9JLME31F08	Šmartinska 140 SI-1000 Ljubljana, Slovenija/Slovenia	SLOVENIA	Partner Bank	Securities Partner Bank	Sub Custodian
UNION INTERNATIONAL DE BANQUES SA	549300WKCW12LEPUMV07	Union Internationale de Banques 65 Av Habib Bourguiba 1000 Tunis - Tunisia	TUNISIA	Partner Bank	Securities Partner Bank	Sub Custodian
ZAGREBACKA BANKA D.D.	PRNXTNXHBIOTSY1V8P17	Savska 62, 10000 Zagreb	CROATIA	Partner Bank	Securities Partner Bank	Sub Custodian