

BofA Securities Europe SA

Form SBSE-A

Supplemental Filing Attachment:

Amendment to Schedule B, Section II

Question 13B

December 21, 2022

BofA Securities Europe SA - Response to Question 13B of Form SBSE-A with respect to arrangements with others who Execute or Trade

Venue Legal Entity Name	Business Address	LEI
360 TREASURY SYSTEMS AG	Grüneburgweg 16-18, Frankfurt am Main, GERMANY, 60322	529900P0204W9HA8JP36
AQUIS EXCHANGE EUROPE	231 RUE SAINT HONORE, PARIS, FRANCE, 75001	9695002NSIQWF9A09R56
AQUIS EXCHANGE PLC	77 Cornhill, LONDON, UNITED KINGDOM, EC3V 3QQ	213800IXJSF5E1SIW150
BANK OF GREECE S.A.	21 El. Venizelou, ATHENS, GREECE, 10250	549300WJCD3M1OKM9G60
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	549300P0PVQNO43T7K36
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 ESPAÑOLES MARKET DATA SA	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	9598004ZGCP6V6FFL574
BOLSAS Y MERCADOS ESPAÑOLES RENTA FIJA SA.	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	95980096HCVOD0TYCR12
BOLSAS Y MERCADOS ESPAÑOLES SERVICIOS CORPORATIVOS SA	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	959800FNX1M3B7UXOM16
BOLSAS Y MERCADOS ESPAÑOLES SISTEMAS DE NEGOCIACION SA	PLAZA LEALTAD (PALACIO DE LA BOLSA) 1, MADRID, SPAIN, 28014	95980079EEM99NR57242
BONDSPOT S A	Ul. Ksiazeca 4, Warszawa, POLAND, 00-498	259400N28EKSTIFFCL55
BORSA ITALIANA SPA	PIAZZA DEGLI AFFARI 6, MILANO, ITALY, 20123	8156005391EE905D3124
BORSE BERLIN AG	Fasanenstr. 85, Berlin, GERMANY, 10623	391200I7OS301UELZA68
CBOE EUROPE B.V.	Gustav Mahlerlaan 1212, Amsterdam, Natherlands, 1081 LA	2549007JY1TP7I1IMY80
CBOE EUROPE LIMITED	The Monument Building, LONDON, UNITED KINGDOM, EC3R 8AF	254900ERRPSKE7UZH711
CME AMSTERDAM B.V.	Nieuwezijds Voorburgwal 104 1.05 en 1.06Uni, Amsterdam, NETHERLANDS, 1012 SG	2138004TYNQCB7MLTG76
DEUTSCHE BORSE AG	Mergenthalerallee 61, Eschborn, GERMANY, 65760	529900G3SW56SHYNPR95
DIGITAL VEGA FX LTD	9Th Floor, LONDON, UNITED KINGDOM, EC2V 6DN	213800GQ81SBZ7SCHZ94
EUREX FRANKFURT AG	Mergenthalerallee 61, Eschborn, GERMANY, 65760	529900UT4DG0LG5R9O07
EUREX REPO GMBH	Mergenthalerallee 61, Eschborn, GERMANY, 65760	529900QA7T9JLRFVNN10
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 N.V.	Beursplein 5, Amsterdam, NETHERLANDS, 1012 JW	724500QJ4QSZ3H9QU415
EURONEXT PARIS SA	PARIBOURSE SBF SOC BOURSES FRANCAISES, COURBEVOIE, FRANCE, 92400	969500HMSVZ0TCV65D58
EUROPEAN ENERGY EXCHANGE AG	Augustusplatz 9, Leipzig, GERMANY, 4109	529900J0JGLSFDWNFC20
GLMX TECHNOLOGIES LLC	330 7th Ave FL 17, New York, UNITED STATES, 100015246	254900ASG2SHGJG66W93
HELLENIC EXCHANGES - ATHENS STOCK EXCHANGE S.A.	110 Athinon Ave, ATHENS, GREECE, 10442	549300GSRN07MNENPL97
HRTEU LIMITED	7 Grand Canal. Grand Canal Street Lower, D02 KW81, Dublin	21380043Y9S58KQ3PA19
ICE ENDEX MARKETS B.V.	Hoogoorddreef 7 Australia bl, Amsterdam, NETHERLANDS, 1101 BA	549300CZW488L2ONT866
ICE FUTURES EUROPE	Milton Gate, LONDON, UNITED KINGDOM, EC1Y 4AG	549300UF4R84F48NCH34
INTEGRAL DEVELOPMENT CORPORATION (EUROPE) LIMITED	19th floor, 100 Bishopsgate, EC2N 4AG, London	549300LYOXGEYO4YK89
KING & SHAXSON CAPITAL LTD	First Floor Cutlers Court, LONDON, UNITED KINGDOM, EC3A 7BR	213800ARTVZQSADRZ559
LMAX LTD	Monsoon Building, LONDON, UNITED KINGDOM, W11 4AN	21380034TU2T8CNZ578
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
MEFF SOCIEDAD RECTORA DEL MERCADO DE PRODUCTOS DERIVADOS SA	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	959800T2W59YXMVKRU25
MTS ASSOCIATED MARKETS SA	RUE DES COMEDIENS, 16-22, 1000, BRUXELLES, BE Belgium	213800C8G8MWTRJAOJ67
MTS SPA	VIA TOMACELLI 146, 00186, ROME, Italy	213800ZMKPUV1VKLCT69
NASDAQ COPENHAGEN A/S	Nikolaj Plads 6, KØBENHAVN, DENMARK, 1067	549300JNYZUL5PLI8E17
NASDAQ OMX HELSINKI OY	Fabianinkatu 14, HELSINKI, FINLAND, 100	743700NAXLL4Q86IEX32
NASDAQ STOCKHOLM AB	Tullvaktsvägen 15, Stockholm, SWEDEN, 115 56	549300KBQIVNEJEZVL96
OSLO BORS ASA	Tollbugata 2, Oslo, NORWAY, 152	5967007LIEEXZXHDL433
SOCIEDAD DE BOLSAS SA	PLAZA LEALTAD 1, MADRID, SPAIN, 28014	9598001WTPGD8A01N979
SOCIEDAD RECTORA DE LA BOLSA DE VALORES DE MADRID SA	PLAZA LEALTAD (PALACIO DE LA BOLSA) 1, MADRID, SPAIN, 28014	959800UYJM40XUGVGG78
STATE STREET GLOBAL MARKETS INTERNATIONAL LTD	20 Churchill Place Canary Wharf, LONDON, UNITED KINGDOM, E14 5HJ	549300SQM0MRIF4HE647
TFS-ICAP LTD	Beaufort House, LONDON, UNITED KINGDOM, EC3A 7QX	549300ETKP1MFYX3RQ19
THE IRISH STOCK EXCHANGE PUBLIC LIMITED COMPANY	28 Anglesea Street, Dublin, IRELAND, N/A	635400DZBUIMTBCXGA12
TRADEWEB EUROPE LTD	1 Fore Street Avenue, LONDON, UNITED KINGDOM, EC2Y 9DT	2138001WXZQOPMPA3D50
TRAYPORT LTD	7Th Floor, LONDON, UNITED KINGDOM, EC2A 2AP	213800PICGAHUDMI1Z46
TSAF OTC S.A.	9 PL VENDOME, PARIS 1, 75001, FR	969500V058ZSY03FNX80
VIRTU ITG EUROPE LIMITED	George's Court, Dublin, IRELAND, 2	213800EEC95PRUCEUP63
WARSAW STOCK EXCHANGE	Ksiazeca 4, Warsaw, POLAND, 00-498	25940039ZHD3Z37GKR71
WIENER BÖRSE AG	Wallnerstraße 8, WIEN, AUSTRIA, 1010	315700ENWH1A81RCVZ91

BofA Securities Europe SA - Response to Question 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
THE BANK OF NEW YORK MELLON	HPFHU0OQ28E4N0NFVK49	240 Green Street, New York, NY 10286	UNITED STATES	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A. Niederlassung Deutschland	R0MUWSFPU8MPRO8K5P83	Senckenberganlage 19, 60325 Frankfurt am Main, Germany	AUSTRIA	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS SA	R0MUWSFPU8MPRO8K5P83	Les Grands Moulin de Pantin, 9 Rue du Debarcadere 93500 Pantin, France	FRANCE/Portugal	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A. Niederlassung Deutschland	R0MUWSFPU8MPRO8K5P83	Senckenberganlage 19, 60325 Frankfurt am Main, Germany	GERMANY	Partner Bank	Securities Partner Bank	Sub Custodian
BNP Paribas S.A., Succursale Italia	R0MUWSFPU8MPRO8K5P83	Piazza Lina Bo Bardi 3, 20124 Milano, Italy 20124 Milano	ITALY	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS Australia Branch	R0MUWSFPU8MPRO8K5P83	Level 4, 60 Castlereagh Street, Sydney, NSW, 2000, Australia	NEW ZEALAND	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS SA SUCURSAL EN ESPANA	R0MUWSFPU8MPRO8K5P83	Calle de Emilio Vargas 4, 28043 Madrid, Spain	SPAIN	Partner Bank	Securities Partner Bank	Sub Custodian
BNP PARIBAS, Paris, Zurich Branch	R0MUWSFPU8MPRO8K5P83	Selnaustrasse 16, PO Box, 8022 Zurich, Switzerland	SWITZERLAND	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
N A Citibank	8B4EZFY8IHJC44TT2K84	Estado 260, Level 2, Santiago, Chile 8320204	CHILE	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 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	CHINA	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 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. (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. (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. ISRAEL BRANCH	E57ODZWZ7FF32TWEFA76	Ha'arba'a 21 Tel Aviv	ISRAEL	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
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
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
AO Citibank	CHSQDSVI1UI96Y2SW097	8-10, bld.1, Gasheka street, Moscow, 125047, Russia	RUSSIAN FEDERATION	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 KOREA INC.	745P3MMS7E8CUVXDRJ82	50, Saemunan-ro, Jongno-gu, Seoul, 03184, Korea	SOUTH KOREA	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 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
JOINT STOCK COMPANY "CITIBANK"	549300E0ROTI7ACBZH02	Bud.16-g, Dilova Str, 03150, Kyiv, Ukraine	UKRAINE	Partner Bank	Securities Partner Bank	Sub Custodian
CITIBANK N.A. LONDON BRANCH	G2M96IXONJEA0BNT6B40	Citigroup Centre, Canary Wharf, London, E14 5LB	UNITED KINGDOM	Partner Bank	Securities Partner Bank	Sub Custodian
N A CITIBANK	E57ODZWZ7FF32TWEFA76	388 Greenwich Street New York NY 10013	UNITED STATES	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
THE HONGKONG AND SHANGHAI BANKING	2HI3YI5320L3RW6NJ957	No 24, Sir Baron Jayatilaka Mawatha, Colombo 1, Sri Lanka	SRI LANKA	Partner Bank	Securities Partner Bank	Sub Custodian

CORPORATION LIMITED (SRI LANKA BRANCH)						
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
CLEARSTREAM INTERNATIONAL SA	549300OL514RA0SXJJ44	11 Westferry Circus, Canary Wharf, London, E14 4HE, United Kingdom	LUXEMBOURG	Partner Bank	Securities Partner Bank	International Central Securities Depository
SOCIETE GENERALE MAROCAINE DE BANQUES SA	549300WHIMVBNIDQWK21	55, Boulevard Abdelmoumen, Casablanca, 20100, Morocco	MOROCCO	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.	PRNXTNXHBI0TSY1V8P17	Savska 62, 10000 Zagreb	CROATIA	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 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 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 BANKA SLOVENIJA d.d.	549300O2UN9JLME31F08	Šmartinska 140 SI-1000 Ljubljana, Slovenija/Slovenia	SLOVENIA	Partner Bank	Securities Partner Bank	Sub Custodian
EUROCLEAR BANK SA	549300OZ46BRLZ8Y6F65	1 Boulevard du Roi Albert II, B – 1210 Brussels, Belgium	BELGIUM	Partner Bank	Securities Partner Bank	International Central Securities Depository
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 (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, 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 KENYA LTD	549300RBHWW5EJIRG629	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 (MAURITIUS) LIMITED	549300R0Q58QYRNZLS10	Standard Chartered Bank (Mauritius) Limited Standard Chartered Tower	MAURITIUS	Partner Bank	Securities Partner Bank	Sub Custodian

		19th Bank Street, Cybrcity 72201 Ebene, Mauritius				
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
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
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
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
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
BANK POLSKA KASA OPIEKI SA	5493000LKS7B3UTF7H35	Żwirki i Wigury 31, 02-091 Warsaw, Poland	POLAND	Partner Bank	Securities Partner Bank	Sub Custodian
Skandinaviska Enskilda Banken AB (publ)	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	FINLAND	Partner Bank	Securities Partner Bank	Sub Custodian
Skandinaviska Enskilda Banken AB (publ)	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Denmark	Partner Bank	Securities Partner Bank	Sub Custodian
Skandinaviska Enskilda Banken AB (publ)	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Norway	Partner Bank	Securities Partner Bank	Sub Custodian
ICE CLEAR EUROPE LTD	5R6J7JCQRIPQR1EEP713	MILTON GATE, 60 CHISWELL STREET, London EC1Y 4SA, GB	UNITED KINGDOM	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
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
CASSA DI COMPENSAZIONE E GARANZIA SPA	8156006407E264D2C725	VIA TOMACELLI, 146, 00186, Roma, Italy	ITALY	Financial Market Utility	Central Counterparty (CCP)	Cash Equity and Derivatives

LCH LIMITED	F226TOH6YD6XJB17KS62	Aldgate House, 33 Aldgate High Street, EC3N 1EA London	UNITED KINGDOM	Financial Market Utility	Central Counterparty (CCP)	LCH 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)
NASDAQ CLEARING AB	54930002A8LR1AAUCU78	Tullvaktsvägen 15, 115 56, Stockholm, SE, Sweden	SWEDEN	Financial Market Utility	Central Counterparty (CCP)	Financial Products
BME CLEARING SA	5299009QA8BBE2O0B349	PLAZA DE LA LEALTAD 1, 1, 28014, Madrid, Spain	SPAIN	Financial Market Utility	Central Counterparty (CCP)	Financial Derivatives
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 Exchanges Equities
EUROPEAN COMMODITY CLEARING AG	529900M6JY6PUZ9NTA71	Augustusplatz 9, 04109, Leipzig, Germany	GERMANY	Financial Market Utility	Central Counterparty (CCP)	Commodity
EUROPEAN CENTRAL COUNTERPARTY N.V.	724500937F740MHCX307	Strawinskylaan 1847, Tower I, Level 3, 1077XX, Amsterdam, NL, Netherlands	NETHERLANDS	Financial Market Utility	Central Counterparty (CCP)	Equity
CCP AUSTRIA ABWICKLUNGSSTELLE FUR BORSENGESCHAFTE GMBH	529900QF6QY66QULSI15	Strauchgasse 1-3, 1010, Wien, AT-9, Austria	AUSTRIA	Financial Market Utility	Central Counterparty (CCP)	Equity
CLEARSTREAM BANKING AG	549300298FD7AS4PPU70	Mergenthalerallee 61, 65760, Eschborn, Germany	GERMANY	Financial Market Utility	Central Securities Depository (CSD)	Securities

EUROCLEAR FRANCE	54930060MY6S68NEUP16	Euroclear France: 66 rue de la Victoire, 75009 PARIS	France	Financial Market Utility	Central Securities Depository (CSD)	Securities
EUROCLEAR UK & IRELAND 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
Skandinaviska Enskilda Banken AB (publ)	F3JS33DEI6XQ4ZBPTN86	Kungsträdgårdsgatan 8, SE-106 40 STOCKHOLM, SWEDEN	Sweden	Partner Bank	Securities Partner Bank	Sub Custodian