



List of Sub-Custodians - April 2020



HAUCK & AUFHÄUSER
PRIVATBANK SEIT 1796

List of Sub-Custodians / Custody Network

The assets (equities / bonds) held for the account of the funds are mainly kept by:

- Clearstream Banking S.A., Luxembourg*
- Clearstream Banking AG, Frankfurt am Main*
- Citibank N.A., London

and domestic / foreign fund shares are mainly kept by :

- Clearstream Banking S.A., Luxembourg*
- Clearstream Banking AG, Frankfurt am Main*
- B. Metzler seel. Sohn & Co. KGaA, Frankfurt am Main
- ifsam - International Fund Services & Asset Management S.A., Luxembourg
- Fondsdepot Bank GmbH, Hof
- Augsburger Aktienbank AG, Augsburg

Furthermore, the following special Sub-Custodian is used:

- Standard Chartered Bank (Group)

*Please find more details under the following link:

www.clearstream.com/clearstream-en/products-and-services/market-coverage/markets-covered

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Clearstream Banking S.A. (Luxembourg)
Clearstream Banking AG (Frankfurt)

BICCODE: CEDELULLXXX
BICCODE: DAKVDEFFXXX

Country	2nd Sub-Custodian	Central Securities Depository
Argentina		Caja de Valores S.A., Buenos Aires (CVSA)
Australia	JPMorgan Chase Bank N.A., Sydney Branch (CHASAU2XDCC)	Austraclear Limited, Sydney The Depository Trust Company , New York (DTC)
Austria	Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Österreichische Kontrollbank Central Securities Depository GmbH, Vienna (OeKB CSD)
Belgium	KBC Bank N.V., Brussels (KREDBEBBXXX) Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Euroclear Belgium, Brussels (EBE) National Bank of Belgium, Brussels (NBB)
Canada	RBC Investor Services Trust, Toronto (ROTRCATTXXX)	The Canadian Depository for Securities Ltd., Toronto (CDS) The Depository Trust Company , New York (DTC)
China (B-shares)	HSBC Bank (China) Company Ltd. (HSBCCNSHXXX)	China Securities Depository and Clearing Corp. Ltd. (CSDC) China Central Depository and Clearing Co. Ltd. (CCDC) Shanghai Clearing House (SHCH)
Czech Republic	UniCredit Bank Czech Republic and Slovakia, a.s., Prague (BACXCZPPXXX)	The Central Securities Depository, Prague (CSDP) Czech National Bank, Prague (CNB)
Denmark		VP Securities A/S, Copenhagen
Estonia	SEB Pank AS, Tallinn (EEUHEE2XXXX)	Nasdaq CSD SE, Tallinn
Finland		Euroclear Finland Ltd., Helsinki
France	BNP Paribas Securities Services S.A., Paris (PARBFRPPXXX) Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Euroclear France S.A., Paris
Germany	Clearstream Banking S.A., Luxembourg (CEDELULLXXX)	Clearstream Banking AG, Frankfurt am Main
Greece	Citibank Europe plc, Greece Branch, Athens (CITIGRAAXXX) Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Hellenic Central Securities Depository S.A., Athens (ATHEXCSD) Bank of Greece settlement system, Athens (BoGS)
Hong Kong	Citibank N.A., Hong Kong (CITIHKHXXXX)	Hong Kong Securities Clearing Company Ltd. (HKSCC) Central Moneymarkets Unit, Hong Kong (CMU)
Hungary		KELER Ltd., Budapest
Iceland	LuxCSD S.A., Luxembourg (LUXCLULLXXX)	Nasdaq CSD Iceland hf, Reykjavik

Clearstream Banking S.A. (Luxembourg)
Clearstream Banking AG (Frankfurt)

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Country	2nd Sub-Custodian	Central Securities Depository
Indonesia	Citibank N.A., Jakarta (CITIIDJXXXX)	Indonesian Central Securities Depository, Jakarta (KSEI) Bank Indonesia, Jakarta
Ireland	Citibank N.A., London Branch, London (CITIGB2LXXX)	Euroclear UK & Ireland Ltd., London Euroclear Bank S.A. / N.V., Brussels
Israel	Citibank N.A., Israel Branch, Tel Aviv (CITILITXXX)	Tel Aviv Stock Exchange Clearing House Ltd., Tel Aviv (TASE-CH)
Italy	Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Monte Titoli S.p.A., Milan
Japan	HSBC Ltd., Tokyo (HSBCJPJTXXX)	Bank of Japan, Tokyo (BoJ) Japan Securities Depository Center Inc., Tokyo (JASDEC) The Depository Trust Company, New York (DTC)
Latvia	SEB Pank AS, Tallinn (EEUHEE2XXXX)	Nasdaq CSD SE, Riga
Lithuania	SEB Pank AS, Tallinn (EEUHEE2XXXX)	Nasdaq CSD SE, Vilnius
Luxembourg		LuxCSD S.A., Luxembourg
Malaysia	HSBC Bank Malaysia Berhad, Kuala Lumpur (HBMBMYKLXXX)	Bursa Malaysia Depository Sdn. Berhad, Kuala Lumpur Malaysian Electronic Clearing Sdn Bhd, MyClear
Malta		Malta Stock Exchange plc., Valletta (MSE)
Mexico	Banco Nacional de Mexico S.A., Mexico D.F. (BNMXMXMMXXX)	S.D. Indeval S.A. de C.V., Mexico D.F.
Netherlands	Clearstream Banking AG, Frankfurt am Main (DAKVDEFFXXX)	Euroclear Nederland S.A./N.V., Amsterdam
New Zealand	JPMorgan Chase Bank N.A., New Zealand Branch, Wellington (CHASNZ2AXXX)	New Zealand Central Securities Depository Ltd., Wellington (NZCSD)
Norway		Verdipapirsentralen ASA, Oslo (VPS)
Philippines	Standard Chartered Bank Philippines Securities Services and Trust, Makati City (SCBLPHMMXXX)	Philippine Depository & Trust Corp., Makati City (PDTC) Bureau of the Treasury, Manila (BTR)
Poland	Bank Handlowy w Warszawie S.A., Warsaw (CITIPLPXXXX)	National Bank of Poland, Warsaw (NBP) Central Securities Depository of Poland, Warsaw (KDPW)
Portugal	BNP Paribas Securities Services S.A., Paris (PARBFRPPXXX)	Interbolsa - S.G.S.L.S.C.V.M. S.A, Porto

Clearstream Banking S.A. (Luxembourg)
Clearstream Banking AG (Frankfurt)

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Country	2nd Sub-Custodian	Central Securities Depository
Romania	BRD Groupe Societe Generale, Bucharest (BRDEROBUXXX)	National Bank of Romania, Bucharest (NBR) Depozitarul Central S.A., Bucharest
Russia		National Settlement Depository, Moscow (NSD)
Singapore	DBS Bank Ltd., Singapore (DBSSSGSGXXX)	The Central Depository Pte Ltd., Singapore (CDP) Monetary Authority of Singapore (MAS)
Slovakia		Centrálny depozitár cenných papierov SR a.s., Bratislava (CDCP)
Slovenia		Central Securities Clearing Corp., Ljubljana (KDD)
South Africa	Standard Chartered Bank, Johannesburg Branch, Sandton (SCBLZAJJXXX)	South Africa's Central Securities Depository Pty Ltd., Sandton (strate)
South Korea	HSBC Ltd., Seoul Branch (HSBCKRSEXXX)	Korean Securities Depository, Seoul (KSD)
Spain	Banco Bilbao Vizcaya Argentaria S.A., Madrid (BBVAESMMXXX)	Iberclear, Madrid
Sweden	S.E. Banken Custody Service, Stockholm (ESSESESSXXX)	Euroclear Sweden AB, Stockholm
Switzerland	UBS AG, Zurich (UBSWCHZHXXX)	SIX SIS Ltd., Zurich
Thailand	Standard Chartered Bank (Thai) Public Company Ltd., Bangkok (SCBLTHBXXX)	Thailand Securities Depository Company Ltd., Bangkok (TSD)
Turkey	Türk Ekonomi Bankasi A.S., Istanbul (TEBUTRISXXX)	Merkezi Kayıt Kurulusu A.S., Istanbul (MKK) Central Bank of Turkey (CBRT)
United Kingdom	Citibank N.A., London Branch (CITIGB2LXXX)	Euroclear UK & Ireland Ltd., London
USA	Citibank N.A., New York (CITIUS33XXX)	Fedwire Securities Services, New York The Depository Trust Company, New York (DTC)

Citibank N.A., London

BICCODE: CITIGB2LXXX

Country	2nd Sub-Custodian	Central Securities Depository
Australia	Citigroup Pty Ltd., Sydney (CITIAU3XXXX)	Clearing House Electr. Subregister System, Sydney (CHES) Austraclear Limited, Sydney
Austria	Citibank Europe plc, Dublin (CITIE2XXXX)	Österreichische Kontrollbank Central Securities Depository GmbH AG, Vienna (OeKB CSD)
Bermuda	HSBC Bank Bermuda Ltd., Hamilton (BBDABMHMXXX)	Bermuda Securities Depository, Hamilton (BSD)
Brazil	Citibank N.A., Brazilian Branch, Sao Paulo (CITIBRSPXXX) 3rd Sub-Custodian: Citibank Distribuidora de Títulos e Valores Mobiliários S.A.	B3 – CETIP Segment Sistema Especial de Liquidação e de Custódia, Sao Paulo (SELIC) B3 - BM&FBOVESPA Segment
Canada	Citibank Canada, Toronto (CITICATTXXX)	The Canadian Depository for Securities Ltd., Toronto (CDS)
Chile	Banco de Chile, Santiago (BCHICLRMXXX)	Depósito Central de Valores S.A., Santiago (DCV)
China	Citibank (China) Co. Ltd., Shanghai (CITICNSXXXX)	CSDCC Shanghai Branch CSDCC Shenzhen Branch China Central Depository Clearing Co. Ltd. (CCDC) Shanghai Clearing House (SHCH)
Colombia	Cititrust Colombia S.A., Bogota (CTRUCOB1XXX)	Depósito Centralizado de Valores, Bogotá (DECEVAL) Deposito Central de Valores, Bogotá (DCV)
Croatia	Privredna Banka Zagreb d.d., Zagreb (PBZGHR2XXXX)	Central Depository & Clearing Company Inc. (SKDD d.d.)
Denmark	Citibank Europe plc, Dublin (CITIE2XXXX)	VP Securities A/S, Copenhagen
Egypt	Citibank N.A. Egypt, Cairo (CITIEGCXXXX)	The Central Bank of Egypt, Cairo (CBE) Misr for Central Clearing, Depository and Registry, Cairo (MCDR)
Estonia	Swedbank A/S, Tallinn (HABAE2XXXX)	Estonian Central Depository for Securities (ECDS)
Finland	Nordea Bank Abp, Helsinki (NDEAFIHHXXX)	Euroclear Finland Ltd., Helsinki
France	Citibank Europe plc, Dublin (CITIE2XXXX)	Euroclear France S.A., Paris
Germany	Citibank Europe plc, Dublin (CITIE2XXXX)	Clearstream Banking AG, Frankfurt am Main (CBF)

Citibank N.A., London

BICCODE: CITIGB2LXXX

Country	2nd Sub-Custodian	Central Securities Depository
Hong Kong	Citibank N.A., Hong Kong Branch (CITIKHXXXX)	Central Clearing and Settlement System, Hong Kong (CCASS) Central Moneymarket Unit, Hong Kong (CMU)
ICSD		Clearstream Banking S.A., Luxembourg (CBL) Euroclear SA/NV Belgium, Brussels (EBE)
Indonesia	Citibank N.A., Jakarta Branch (CITIIDJXXXX)	Indonesian Central Securities Depository, Jakarta (KSEI) Bank Indonesia, Jakarta
Italy	Citibank Europe plc, Dublin (CITIE2XXXX)	Monte Titoli S.p.A, Milan
Japan	Citibank N.A., Tokyo Branch (CITIJPTXXX) Citigroup Global Markets Japan Inc., Tokyo (NSBLJPJTXXX)	Bank of Japan, Tokyo (BoJ) Japan Securities Depository Centre Inc., Tokyo (JASDEC)
Kenya	Standard Chartered Bank of Kenya Ltd., Nairobi (SCBLKENXXXX)	Clearing Depository & Settlement Corporation Ltd., Nairobi (CDSC)
Latvia	Swedbank AS, Tallinn (HABAE2XXXX) 3rd Sub-Custodian: Swedbank AS, Riga (HABALV22XXX)	NASDAQ CSD SE, Riga Bank of Latvia, Riga
Lithuania	Swedbank AS, Tallinn (HABAE2XXXX) 3rd Sub-Custodian: Swedbank AB, Vilnius (HABALT22XXX)	NASDAQ CSD SE, Vilnius
Mauritius	HSBC Ltd., Ebene (HSBCMUMUXXXX)	Central Depository & Settlement Co. Ltd., Port Louis (CDS)
Mexico	Banco Nacional de Mexico S.A., Mexico D.F. (BNMXXMMXXXX)	S.D. Indeval S.A. de C.V., Mexico D.F.
Morocco	Citibank Maghreb S.A., Casablanca (CITIMAMCXXX)	MAROCLEAR, Casablanca
Netherlands	Citibank Europe plc, Dublin (CITIE2XXXX)	Euroclear (Bank) Nederland, Amsterdam
New Zealand	Citibank N.A., New Zealand Branch, Auckland (CITINZ2XXXX)	New Zealand Central Securities Depository Ltd., Wellington (NZCSD)
Peru	Citibank del Perú S.A., Lima (CITIPPLXXX)	CAVALI S.A. ICLV., Lima
Philippines	Citibank, N.A., Philippines Branch, Taguig City (CITIPHMXXXX)	Philippine Depository & Trust Corp., Makati City (PDTC) Bureau of the Treasury, Manila (BTR)
Poland	Bank Handlowy w Warszawie SA, Warsaw (CITIPLPXXXX)	National Bank of Poland, Warsaw (SKRABNET4) Central Securities Depository of Poland, Warsaw (KDPW)
Portugal	Citibank Europe plc, Dublin (CITIE2XXXX)	Interbolsa - S.G.S.L.S.C.V.M. S.A, Porto

Citibank N.A., London**BICCODE: CITIGB2LXXX**

Country	2nd Sub-Custodian	Central Securities Depository
Singapore	Citibank N.A., Singapore Branch (CITISGSGXXX)	The Central Depository Pte Ltd., Singapore (CDP)
Slovenia	UniCredit Banka Slovenija d.d., Ljubljana (BACXSI22XXX)	Central Securities Clearing Corp., Ljubljana (KDD)
South Africa	Citibank N.A., South Africa, Sandton (CITIZAJXXX)	South Africa's Central Securities Depository Pty Ltd., Sandton (strate)
South Korea	Citibank Korea Inc., Seoul (CITIKRSXXX)	Korean Securities Depository, Seoul (KSD)
Sweden	Citibank Europe plc, Sweden Branch, Stockholm (CITISESXXX)	Euroclear Sweden AB, Stockholm
Switzerland	Citibank N.A., London Branch (CITIGB2LXXX)	SIX SIS AG, Zurich
Taiwan	Citibank Taiwan Ltd., Taipei (CITITWTXXX)	Taiwan Depository Clearing Corporation, Taipei (TDCC)
Thailand	Citibank N.A., Bangkok Branch (CITITHBXXX)	Thailand Securities Depository Company Ltd., Bangkok (TSD)
Tunisia	Union Internationale de Banques, Tunis (UIBKTNNTXXX)	Tunisie Clearing, Tunis
United Kingdom	Citibank N.A., London Branch (CITIGB2LXXX)	Euroclear UK & Ireland Ltd., London
USA	Citibank N.A., New York (CITIUS33XXX)	Federal Reserve Bank, New York (FED) The Depository Trust & Clearing Corporation, New York (DTCC)

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