

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
ARGENTINA	HSBC Bank Argentina S.A. Bouchard 557, 18th Floor C1106ABJ Buenos Aires ARGENTINA	HSBC Bank Argentina S.A. Buenos Aires
AUSTRALIA	JPMorgan Chase Bank, N.A.** Level 31, 101 Collins Street Melbourne 3000 AUSTRALIA	Australia and New Zealand Banking Group Ltd. Melbourne
AUSTRIA	UniCredit Bank Austria AG Julius Tandler Platz - 3 A-1090 Vienna AUSTRIA	J.P. Morgan AG** Frankfurt am Main
BAHRAIN	HSBC Bank Middle East Limited Road No 2832 Al Seef 428 BAHRAIN	HSBC Bank Middle East Limited Al Seef
BANGLADESH	Standard Chartered Bank Portlink Tower Level-6, 67 Gulshan Avenue Gulshan Dhaka -1212 BANGLADESH	Standard Chartered Bank Dhaka
BELGIUM	BNP Paribas Securities Services S.C.A. Central Plaza Building Rue de Loosum, 25 7th Floor 1000 Brussels BELGIUM J.P. Morgan Bank Luxembourg S.A.** 6, route de Treves L-2633 Senningerberg LUXEMBOURG J.P. Morgan Bank (Ireland) Public Limited Company** International Financial Services Centre 1 Dublin IRELAND	J.P. Morgan A.G.** Frankfurt am Main
BERMUDA	HSBC Bank Bermuda Limited 3rd FI Harbour View Building 37 Front Street Hamilton HM 11 BERMUDA	HSBC Bank Bermuda Limited Hamilton
BOTSWANA	Standard Chartered Bank Botswana Limited 5th Floor, Standard House P.O. Box 496 Queens Road, The Mall Gaborone BOTSWANA	Standard Chartered Bank Botswana Limited Gaborone

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BRAZIL	J.P. Morgan S.A. DTVM** Av. Brigadeiro Faria Lima, 3729, Floor 06 Sao Paulo SP 04538-905 BRAZIL	J.P. Morgan S.A. DTVM** Sao Paulo
BULGARIA	Citibank Europe plc Serdika Offices 10th Floor 48 Sitnyakovo Blvd Sofia 1505 BULGARIA	ING Bank N.V. Sofia
CANADA	CIBC Mellon Trust Company 1 York Street, Suite 900 Toronto Ontario M5J 0B6 CANADA Royal Bank of Canada 155 Wellington Street West, Toronto Ontario M5V 3L3 CANADA	Royal Bank of Canada Toronto
CHILE	Banco Santander Chile Bandera 140, Piso 4 Santiago CHILE	Banco Santander Chile Santiago
CHINA A-SHARE	HSBC Bank (China) Company Limited 33/F, HSBC Building, Shanghai ifc 8 Century Avenue, Pudong Shanghai 200120 THE PEOPLE'S REPUBLIC OF CHINA	HSBC Bank (China) Company Limited Shanghai
CHINA B-SHARE	HSBC Bank (China) Company Limited 33/F, HSBC Building, Shanghai ifc 8 Century Avenue, Pudong Shanghai 200120 THE PEOPLE'S REPUBLIC OF CHINA	JPMorgan Chase Bank, N.A.** New York JPMorgan Chase Bank, N.A.** Hong Kong
CHINA CONNECT	JPMorgan Chase Bank, N.A.** 48th Floor, One Island East 18 Westlands Road, Quarry Bay HONG KONG	JPMorgan Chase Bank, N.A.** Hong Kong
COLOMBIA	Cititrust Colombia S.A. Carrera 9 A # 99-02, 3rd floor Bogota COLOMBIA	Cititrust Colombia S.A. Bogotá
COSTA RICA	Banco BCT, S.A. 150 Metros Norte de la Catedral Metropolitana Edificio BCT San Jose COSTA RICA	Banco BCT, S.A. San Jose

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MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
CROATIA	Privredna banka Zagreb d.d. Radnicka cesta 50 10000 Zagreb CROATIA	Zagrebacka banka d.d. Zagreb
CYPRUS	HSBC France Athens Branch 109-111, Messogian Ave. 115 26 Athens GREECE	J.P. Morgan AG** Frankfurt am Main
CZECH REPUBLIC	UniCredit Bank Czech Republic and Slovakia, a.s. BB Centrum - FILADELFIE Zeletavska 1525-1 140 92 Prague 1 CZECH REPUBLIC	Ceskoslovenska obchodni banka, a.s. Prague
DENMARK	Nordea Bank AB (publ) Christiansbro Strandgade 3 P.O. Box 850 DK-0900 Copenhagen DENMARK	Nordea Bank AB (publ) Copenhagen
EGYPT	Citibank, N.A. The Boomerang Building, Plot 46, 1st District, 5th Settlement, Off Road 90, Cairo 11835 EGYPT	Citibank, N.A. Cairo
ESTONIA	Swedbank AS Liivalaia 8 15040 Tallinn ESTONIA	J.P. Morgan AG** Frankfurt am Main
FINLAND	Nordea Bank AB (publ) Satamaradankatu 5 FIN-00020 NORDEA Helsinki FINLAND	J.P. Morgan AG** Frankfurt am Main
FRANCE	BNP Paribas Securities Services S.C.A. 3, rue d'Antin 75002 Paris FRANCE J.P. Morgan Bank Luxembourg S.A.** 6, route de Treves L-2633 Senningerberg LUXEMBOURG J.P. Morgan Bank (Ireland) Public Limited Company** International Financial Services Centre 1 Dublin IRELAND	J.P. Morgan AG** Frankfurt am Main

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
GERMANY	<p>Deutsche Bank AG Alfred-Herrhausen-Allee 16-24 D-65760 Eschborn GERMANY</p> <p>J.P. Morgan AG#** Taunustor 1 (TaunusTurm) 60310 Frankfurt am Main GERMANY # Custodian for local German custody clients only.</p>	J.P. Morgan AG** Frankfurt am Main
GHANA	Standard Chartered Bank Ghana Limited Accra High Street P.O. Box 768 Accra GHANA	Standard Chartered Bank Ghana Limited Accra
GREECE	HSBC France Athens Branch 109-111, Messogion Ave. 11526 Athens GREECE	J.P. Morgan AG** Frankfurt am Main
HONG KONG	JPMorgan Chase Bank, N.A.** 48th Floor, One Island East 18 Westlands Road, Quarry Bay HONG KONG	JPMorgan Chase Bank, N.A.** Hong Kong
HUNGARY	Deutsche Bank AG Hold utca 27 H-1054 Budapest HUNGARY	ING Bank N.V. Budapest
ICELAND	Islandsbanki hf. Kirkjusandur 2 IS-155 Reykjavik ICELAND	Islandsbanki hf. Reykjavik
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INDIA	JPMorgan Chase Bank, N.A.** 6th Floor, Paradigm 'B' Wing Mindspace, Malad (West) Mumbai 400 064 INDIA	JPMorgan Chase Bank, N.A.** Mumbai
INDONESIA	PT Bank HSBC Indonesia Menara Mulia 25th Floor Jl. Jendral Gatot Subroto Kav. 9-11 Jakarta 12930 INDONESIA	PT Bank HSBC Indonesia Jakarta
IRELAND	JPMorgan Chase Bank, N.A.** 25 Bank Street, Canary Wharf London E14 5JP UNITED KINGDOM	J.P. Morgan AG** Frankfurt am Main

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
ISRAEL	Bank Leumi le-Israel B.M. 35, Yehuda Halevi Street 65136 Tel Aviv ISRAEL	Bank Leumi le-Israel B.M. Tel Aviv
ITALY	BNP Paribas Securities Services S.C.A. Piazza Lina Bo Bardi, 3 20124 Milan ITALY J.P. Morgan Bank Luxembourg S.A.** 6, route de Treves L-2633 Senningerberg LUXEMBOURG J.P. Morgan Bank (Ireland) Public Limited Company** International Financial Services Centre 1 Dublin IRELAND	J.P. Morgan AG** Frankfurt am Main
JAPAN	Mizuho Bank, Ltd. 2-15-1, Konan Minato-ku Tokyo 108-6009 JAPAN MUFG Bank, Ltd. 1-3-2 Nihombashi Hongoku-cho Chuo-ku Tokyo 103-0021 JAPAN	JPMorgan Chase Bank, N.A.** Tokyo
JORDAN	Standard Chartered Bank Shmeissani Branch Al-Thaqafa Street Building # 2 P.O. Box 926190 Amman JORDAN	Standard Chartered Bank Amman
KAZAKHSTAN	JSC Citibank Kazakhstan Park Palace, Building A, Floor 2 41 Kazybek Bi Almaty 050010 KAZAKHSTAN	Subsidiary Bank Sberbank of Russia Joint Stock Company Almaty
KENYA	Standard Chartered Bank Kenya Limited Chiromo 48 Westlands Road Nairobi 00100 KENYA	Standard Chartered Bank Kenya Limited Nairobi
KUWAIT	HSBC Bank Middle East Limited Kuwait City, Sharq Area Abdulaziz Al Sager Street Al Hamra Tower, 37F Safat 13017 KUWAIT	HSBC Bank Middle East Limited Safat

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
LATVIA	Swedbank AS Balasta dambis 1a Riga LV-1048 LATVIA	J.P. Morgan AG** Frankfurt am Main
LITHUANIA	AB SEB Bankas 12 Gedimino pr. LT 2600 Vilnius LITHUANIA	J.P. Morgan AG** Frankfurt am Main
LUXEMBOURG	BNP Paribas Securities Services S.C.A. 60 Avenue John F. Kennedy L-1855 Luxembourg LUXEMBOURG	J.P. Morgan AG** Frankfurt am Main
MALAWI	Standard Bank Limited, Malawi 1st Floor Kaomba House Cnr Glyn Jones Road & Victoria Avenue Blantyre MALAWI	Standard Bank Limited, Malawi Blantyre
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MALAYSIA	HSBC Bank Malaysia Berhad 2 Leboh Ampang 12th Floor, South Tower 50100 Kuala Lumpur MALAYSIA	HSBC Bank Malaysia Berhad Kuala Lumpur
MAURITIUS	The Hongkong and Shanghai Banking Corporation Limited HSBC Centre 18 Cybercity Ebene MAURITIUS	The Hongkong and Shanghai Banking Corporation Limited Ebene
MEXICO	Banco Nacional de Mexico, S.A. Act. Roberto Medellin No. 800 3er Piso Norte Colonia Santa Fe 01210 Mexico, D.F. MEXICO	Banco Santander (Mexico), S.A. Mexico, D.F.
MOROCCO	Société Générale Marocaine de Banques 55 Boulevard Abdelmoumen Casablanca 20100 MOROCCO	Attijariwafa Bank S.A. Casablanca
NAMIBIA	Standard Bank Namibia Limited 2nd Floor, Town Square Building Corner of Werner List and Post Street Mall P.O. Box 3327 Windhoek NAMIBIA	The Standard Bank of South Africa Limited Johannesburg

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
NETHERLANDS	BNP Paribas Securities Services S.C.A. Herengracht 595 1017 CE Amsterdam NETHERLANDS	J.P. Morgan AG** Frankfurt am Main
	J.P. Morgan Bank Luxembourg S.A.** 6, route de Treves L-2633 Senningerberg LUXEMBOURG	
	J.P. Morgan Bank (Ireland) Public Limited Company** International Financial Services Centre 1 Dublin IRELAND	
NEW ZEALAND	JPMorgan Chase Bank, N.A.** Level 13, 2 Hunter Street Wellington 6011 NEW ZEALAND	Westpac Banking Corporation Wellington
NIGERIA	Stanbic IBTC Bank Plc Plot 1712 Idejo Street Victoria Island Lagos NIGERIA	Stanbic IBTC Bank Plc Lagos
NORWAY	Nordea Bank AB (publ) Essendropsgate 7 P.O. Box 1166 NO-0107 Oslo NORWAY	Nordea Bank AB (publ) Oslo
OMAN	HSBC Bank Oman S.A.O.G. 2nd Floor Al Khuwair P.O. Box 1727 PC 111 Seeb OMAN	HSBC Bank Oman S.A.O.G. Seeb
PAKISTAN	Standard Chartered Bank (Pakistan) Limited P.O. Box 4896 Ismail Ibrahim Chundrigar Road Karachi 74000 PAKISTAN	Standard Chartered Bank (Pakistan) Limited Karachi
PERU	Citibank del Perú S.A. Av. Canaval y Moreryra 480 Piso 3 San Isidro Lima 27 PERU	Banco de Crédito del Perú Lima
PHILIPPINES	The Hongkong and Shanghai Banking Corporation Limited 7/F HSBC Centre 3058 Fifth Avenue West Bonifacio Global City 1634 Taguig City PHILIPPINES	The Hongkong and Shanghai Banking Corporation Limited Taguig City

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
POLAND	Bank Handlowy w. Warszawie S.A. ul. Senatorska 16 00-923 Warsaw POLAND	mBank S.A. Warsaw
PORTUGAL	BNP Paribas Securities Services S.C.A. Avenida D.João II, Lote 1.18.01, Bloco B, 7º andar 1998-028 Lisbon PORTUGAL	J.P. Morgan AG** Frankfurt am Main
QATAR	HSBC Bank Middle East Limited 2nd Floor, Ali Bin Ali Tower Building 150 (Airport Road) P.O. Box 57 Doha QATAR	The Commercial Bank (P.Q.S.C.) Doha
ROMANIA	Citibank Europe plc 145 Calea Victoriei 1st District 010072 Bucharest ROMANIA	ING Bank N.V. Bucharest
RUSSIA	J.P. Morgan Bank International (Limited Liability Company)** 10, Butyrsky Val White Square Business Centre Floor 12 Moscow 125047 RUSSIA	JPMorgan Chase Bank, N.A.** New York
SAUDI ARABIA	HSBC Saudi Arabia 2/F HSBC Building 7267 Olaya Street North, Al Murooj Riyadh 12283-2255 SAUDI ARABIA	HSBC Saudi Arabia Riyadh
SERBIA	Unicredit Bank Srbija a.d. Rajiceva 27-29 11000 Belgrade SERBIA	Unicredit Bank Srbija a.d. Belgrade
SINGAPORE	DBS Bank Ltd 10 Toh Guan Road DBS Asia Gateway, Level 04-11 (4B) 608838 SINGAPORE	Oversea-Chinese Banking Corporation Singapore
SLOVAK REPUBLIC	UniCredit Bank Czech Republic and Slovakia, a.s. Sancova 1/A SK-813 33 Bratislava SLOVAK REPUBLIC	J.P. Morgan AG** Frankfurt am Main
SLOVENIA	UniCredit Banka Slovenija d.d. Smartinska 140 SI-1000 Ljubljana SLOVENIA	J.P. Morgan AG** Frankfurt am Main

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
SOUTH AFRICA	FirstRand Bank Limited 1 Mezzanine Floor, 3 First Place, Bank City Cnr Simmonds and Jeppe Streets Johannesburg 2001 SOUTH AFRICA	The Standard Bank of South Africa Limited Johannesburg
SOUTH KOREA	Standard Chartered Bank Korea Limited 47 Jongro, Jongro-Gu Seoul 03160 SOUTH KOREA	Standard Chartered Bank Korea Limited Seoul
	Kookmin Bank Co., Ltd. 84, Namdaemun-ro, Jung-gu Seoul 100-845 SOUTH KOREA	Kookmin Bank Co., Ltd. Seoul
SPAIN	Santander Securities Services, S.A. Parque Empresarial La Finca Pozuelo de Alarcón 28223 Madrid SPAIN	J.P. Morgan AG** Frankfurt am Main
SRI LANKA	The Hongkong and Shanghai Banking Corporation Limited 24 Sir Baron Jayatillaka Mawatha Colombo 1 SRI LANKA	The Hongkong and Shanghai Banking Corporation Limited Colombo
SWEDEN	Nordea Bank AB (publ) Hamngatan 10 SE-105 71 Stockholm SWEDEN	Svenska Handelsbanken Stockholm
SWITZERLAND	UBS Switzerland AG 45 Bahnhofstrasse 8021 Zurich SWITZERLAND	UBS Switzerland AG Zurich
TAIWAN	JPMorgan Chase Bank, N.A.** 8th Floor, Cathay Xin Yi Trading Building No. 108, Section 5, Xin Yi Road Taipei 11047 TAIWAN	JPMorgan Chase Bank, N.A.** Taipei
TANZANIA	Stanbic Bank Tanzania Limited Stanbic Centre Corner Kinondoni and A.H. Mwinyi Roads P.O. Box 72648 Dar es Salaam TANZANIA	Stanbic Bank Tanzania Limited Dar es Salaam

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THAILAND	Standard Chartered Bank (Thai) Public Company Limited 14th Floor, Zone B Sathorn Nakorn Tower 90 North Sathorn Road Bangrak Silom, Bangrak Bangkok 10500 THAILAND	Standard Chartered Bank (Thai) Public Company Limited Bangkok
TUNISIA	Banque Internationale Arabe de Tunisie, S.A. 70-72 Avenue Habib Bourguiba P.O. Box 520 Tunis 1000 TUNISIA	Banque Internationale Arabe de Tunisie, S.A. Tunis
TURKEY	Citibank A.S. Inkilap Mah., Yilmaz Plaza O. Faik Atakan Caddesi No: 3 34768 Umraniye, Istanbul TURKEY	JPMorgan Chase Bank, N.A.** Istanbul
UGANDA	Standard Chartered Bank Uganda Limited 5 Speke Road P.O. Box 7111 Kampala UGANDA	Standard Chartered Bank Uganda Limited Kampala
UKRAINE	PJSC Citibank 16-G Dilova Street 03150 Kiev UKRAINE	PJSC Citibank Kiev JPMorgan Chase Bank, N.A.** New York
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UNITED ARAB EMIRATES - ADX	HSBC Bank Middle East Limited Emaar Square, Level 4, Building No. 5 P.O. Box 502601 Dubai UNITED ARAB EMIRATES	The National Bank of Abu Dhabi Abu Dhabi
UNITED ARAB EMIRATES - DFM	HSBC Bank Middle East Limited Emaar Square, Level 4, Building No. 5 P.O. Box 502601 Dubai UNITED ARAB EMIRATES	The National Bank of Abu Dhabi Abu Dhabi
UNITED ARAB EMIRATES - NASDAQ DUBAI	HSBC Bank Middle East Limited Emaar Square, Level 4, Building No. 5 P.O. Box 502601 Dubai UNITED ARAB EMIRATES	JPMorgan Chase Bank, N.A. ** New York

MARKET	SUBCUSTODIAN	CASH CORRESPONDENT BANK
UNITED KINGDOM	JPMorgan Chase Bank, N.A.** 25 Bank Street, Canary Wharf London E14 5JP UNITED KINGDOM	JPMorgan Chase Bank, N.A.** London
	Deutsche Bank AG Depository and Clearing Centre 10 Bishops Square London E1 6EG UNITED KINGDOM	Varies by currency
UNITED STATES	JPMorgan Chase Bank, N.A.** 4 New York Plaza New York NY 10004 UNITED STATES	JPMorgan Chase Bank, N.A.** New York
URUGUAY	Banco Itaú Uruguay S.A. Zabala 1463 11000 Montevideo URUGUAY	Banco Itaú Uruguay S.A. Montevideo
VIETNAM	HSBC Bank (Vietnam) Ltd. Centre Point 106 Nguyen Van Troi Street Phu Nhuan District Ho Chi Minh City VIETNAM	HSBC Bank (Vietnam) Ltd. Ho Chi Minh City
WAEMU - BENIN, BURKINA FASO, GUINEA-BISSAU, IVORY COAST, MALI, NIGER, SENEGAL, TOGO	Standard Chartered Bank Côte d'Ivoire SA 23 Boulevard de la Republique 1 01 B.P. 1141 Abidjan 17 IVORY COAST	Standard Chartered Bank Côte d'Ivoire SA Abidjan
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ZAMBIA	Standard Chartered Bank Zambia Plc Standard Chartered House Cairo Road P.O. Box 32238 Lusaka 10101 ZAMBIA	Standard Chartered Bank Zambia Plc Lusaka
ZIMBABWE	Stanbic Bank Zimbabwe Limited Stanbic Centre, 3rd Floor 59 Samora Machel Avenue Harare ZIMBABWE	Stanbic Bank Zimbabwe Limited Harare
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