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GLOBAL NETWORK REPORT

1st quarter 2023



SOCIETE GENERALE
Securities Services

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1. UPDATE ON CUSTODIAN NETWORK

No change in our network on Q1 2023

2. UPDATE OF RATINGS OF SUB-CUSTODIANS*

Country	Sub-custodian	S&P New rating	S&P previous rating	Moody's New rating	Moody's previous rating	Fitch's New rating	Fitch's previous rating
CANADA	Royal bank of Canada Toronto					AA	AA-
OMAN	HSBC Oman Bank SAOG Ruwi			Ba2	UNDEF	BB+	UNDEF

Country	Parent Company	S&P New rating	S&P previous rating	Moody's New rating	Moody's previous rating	Fitch's New rating	Fitch's previous rating
CANADA	Royal bank of Canada					AA	AA-

SGSS' sub-custodian global network, Parent company Names and agency ratings.

Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Argentina	Citibank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Australia	Citigroup Pty Limited-Melbourne	UNDEF	UNDEF	UNDEF	CITIGROUP INC	BBB+	A3	A
Austria	Unicredit Bank Austria AG-Vienna ¹	BBB+	Baa1	UNDEF	UNICREDIT SPA	BBB	Baa1	BBB
	OEKB CSD GMBH ²	AA+	Aaa	AA+	OESTERREICH BUNDESFINANZIER	UNDEF	UNDEF	UNDEF
Bahrain	HSBC Bank Middle East Limited Manama	UNDEF	A3	A+	HSBC HOLDINGS PLC	A-	A3	A+
Belgium	Societe Generale Sa	A	A1	A-	SOCIETE GENERALE	A	A1	A-
	Euroclear Belgium (ESES) ²	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA
Benin	Societe Generale de Banques en Côte d'Ivoire-Abidjan ¹	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Botswana	Standard Chartered Bank Mauritius ¹ Ebene	UNDEF	UNDEF	UNDEF	STANDARD CHARTERED BANK	A+	A1	A+
Brazil	Santander Caceis Brasil DTVM S.A.	UNDEF	UNDEF	UNDEF	BANCO SANTANDER SA	A+	A2	A-

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*The list does not include imposed sub-custodians

¹ SGSS France, Luxembourg, Ireland, Germany and UK sub-custodians only

² SGSS Italy sub-custodians only

Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Bulgaria	CitiBank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Burkina-Faso	Societe Generale de Banques en Côte d'Ivoire ¹ Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Canada	Royal bank of Canada Toronto	AA-	A1	AA	ROYAL BANK OF CANADA	AA-	A1	AA
Chile	CitiBank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A-
China	HSBC Bank (China) Cy Limited	A+	A2	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Colombia	CitiBank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A-
Croatia	CitiBank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Cyprus	BNP Paribas Securities Services ¹ Athens Branch	UNDEF	UNDEF	UNDEF	BNP PARIBAS	A+	Aa3	A+
Czech Republic	Komerční Banka (KB) – Pragua ¹	A	A1	A	SOCIETE GENERALE	A	A1	A-
Denmark	SKANDINAVISKA ENSKILDA BANKEN AB, Copenhagen Branch (SEB)	A+	Aa3	AA-	SKANDINAVISKA ENSKILDA BANKEN AB	A+	Aa3	AA-
Egypt	Qatar National Bank Alahli Cairo	UNDEF	UNDEF	UNDEF	QATAR NATIONAL BANK SAQ	A+	Aa3	A+
Estonia	CitiBank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Finland	Skandinaviska Enskilda Banken AB (publ), Helsinki Branch (SEB)	A+	Aa3	AA-	SKANDINAVISKA ENSKILDA BANKEN AB	A+	Aa3	AA-
France	Societe Generale Sa	A	A1	A-	SOCIETE GENERALE	A	A1	A-
Germany	Societe Generale – Frankfurt ¹ am Main	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Germany	Clearstream Banking AG ²	AA	UNDEF	UNDEF	DEUTSCHE BOERSE AG	AA	UNDEF	UNDEF
Ghana	Standard Chartered Bank Mauritius ¹ Ebene	UNDEF	UNDEF	UNDEF	STANDARD CHARTERED BANK	A+	A1	A+
Greece	BNP Paribas Securities Services, Athens Branch	UNDEF	UNDEF	UNDEF	BNP PARIBAS	A+	Aa3	A+
Guinee-Bissau	Societe Generale de Banques en Côte d'Ivoire ¹ SA Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Hong Kong	Deutsche Bank AG- Hong- Kong	A-	A1	BBB+	DEUTSCHE BANK AKTIENGESELLSCHAFT	A-	A1	BBB+
Hungary	Unicredit Bank Hungary ZRT ²	UNDEF	UNDEF	UNDEF	UNICREDIT SPA	BBB	Baa1	BBB
	Citibank Europe PLC Budapest	UNDEF	UNDEF	UNDEF	CITIGROUP INC	BBB+	A3	A
Iceland	Landsbankinn HF ¹	BBB	UNDEF	UNDEF	LANDSBANKINN HF	BBB	UNDEF	UNDEF
	Euroclear Bank ²	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA+
ICSD	Clearstream Banking SA Luxembourg	AA	UNDEF	UNDEF	DEUTSCHE BOERSE AG	AA	UNDEF	UNDEF
ICSD	Euroclear Bank SA/NV Brussels	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA
India	SBI-SG Global Securities Services PVT. Ltd Mumbai	UNDEF	UNDEF	UNDEF	STATE BANK OF INDIA	BBB-	Baa3	BBB-

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Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Ireland	Euroclear Bank SA/NV Brussels	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA
Ireland	HSBC Bank PLC	A+	A1	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Israel	Bank Hapoalim – Tel Aviv	A	A2	A	BANK HAPOALIM BM	A	A2	A
Italy	SGSS Spa Milan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Ivory Coast	Societe Generale de Banques en Côte d'Ivoire SA Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Japan	The Hongkong and Shanghai Banking Corporation Limited Tokyo	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
	The Bank of Tokyo Mitsubishi UFJ LTD ²	A	A1	A-	mitsubishi UFJ FIN/TOKYO	A	A1	A-
Kenya	Standard Chartered Bank Mauritius Limited- Ebene ¹	UNDEF	UNDEF	UNDEF	STANDARD CHARTERED BANK	A+	A1	A+
Korea (South)	The HongKong and Shanghai Banking corporation limited	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Kuwait	HSBC Bank Middle East Limited ¹ Kuwait	UNDEF	A3	A+	HSBC HOLDINGS PLC	A-	A3	A+
Latvia	Citibank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Lithuania	Citibank NA London	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Luxembourg	Euroclear Bank ¹	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA
Luxembourg	Clearstream Banking SA Luxembourg ²	AA	UNDEF	UNDEF	DEUTSCHE BOERSE AG	AA	UNDEF	UNDEF
Luxembourg (fund only)	MFEX Mutual Funds Exchange AB	UNDEF	UNDEF	UNDEF	MFEX MUTUAL FUNDS EXCHANGE AB	UNDEF	UNDEF	UNDEF
Malaysia	HSBC Bank Malaysia Berhad Kuala Lumpur	UNDEF	A2	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Mali	Societe Generale de Banques en Côte d'Ivoire SA Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Mauritius	The Hongkong and Shanghai Banking Corporation Limited - Port Louis	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Mexico	BANCO NACIONAL DE MEXICO S.A	UNDEF	UNDEF	UNDEF	CITIGROUP INC	BBB+	A3	A
Morocco	Société Générale Marocaine de Banques SA Casablanca	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Netherlands	Societe Generale SA ¹	A	A1	A-	SOCIETE GENERALE	A	A1	A-
Netherlands	Euroclear Netherlands (ESSES) ²	AA	UNDEF	AA	EUROCLEAR BANK	AA	UNDEF	AA
New Zealand	Citigroup Pty Limited ¹ Melbourne	UNDEF	UNDEF	UNDEF	CITIGROUP INC	BBB+	A3	A
New Zealand	Citibank NA GW UK ²	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Niger	Societe Generale de Banques en Côte d'Ivoire SA Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-

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Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Nigeria	Standard Chartered Bank Nigeria Limited ¹ Lagos	UNDEF	UNDEF	UNDEF	STANDARD CHARTERED BANK	A+	A1	A+
Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Norway	Skandinaviska Enskilda Banken AB (publ), Olso Branch (SEB)	A+	Aa3	AA-	SKANDINAVISKA ENSKILDA BANKEN AB	A+	Aa3	AA-
Oman	HSBC Oman Bank SAOG Ruwi	UNDEF	Ba2	BB+	HSBC HOLDINGS PLC	A-	A3	A+
Peru	Citibank NA GW UK ²	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Peru	Citibank Del Peru SA-Lima ¹	UNDEF	UNDEF	UNDEF	CITIGROUP INC	BBB+	A3	A
Philippines	The Hongkong and Shanghai Banking Corporation limited Makati	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Poland	Societe Generale, Branch in Poland-Warzawa	A	A1	A-	SOCIETE GENERALE	A	A1	A-
Portugal	BNP Paribas Securities Services SA Paris	UNDEF	UNDEF	UNDEF	BNP PARIBAS	A+	Aa3	A+
Qatar	HSBC Bank Middle East Limited Doha	UNDEF	A3	A+	HSBC HOLDINGS PLC	A-	A3	A+
Romania	Banque Roumaine de Developpement (BRD) Groupe Societe Generale SA – Bucharest	UNDEF	Baa1	BBB+	SOCIETE GENERALE	A	A1	A-
Russia	PJSC RosBank – Moscow	UNDEF	UNDEF	CC	Interros Capital	UNDEF	UNDEF	UNDEF
Saudi Arabia	HSBC Saudi Arabia Ltd Riyadh ¹	UNDEF	UNDEF	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Senegal	Societe Generale de Banques en Côte-d'Ivoire ¹ Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Serbia	OTP Banca Srbija AD Belgrad	UNDEF	UNDEF	UNDEF	OTP BANK	BBB-	Baa1	UNDEF
Singapore	The Hongkong and Shanghai Banking Corporation Limited Singapore	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Slovakia	Ceskoslovenska Obchodna Banka AS Bratislava ¹	UNDEF	A3	UNDEF	KBC BANK	A+	A1	A+
Slovenia	SKB Banka d.d Ljubljana	UNDEF	UNDEF	UNDEF	OTP BANK	BBB-	Baa1	UNDEF
South Africa	ABSA Bank Limited	UNDEF	Ba2	BB-	ABSA BANK LIMITED	UNDEF	Ba2	BB-
Spain	Societe Generale – Madrid Branch	A	A1	A-	SOCIETE GENERALE	A	A1	A-
Sweden	Skandinaviska Enskilda Banken AB (publ), (SEB)	A+	Aa3	AA-	SKANDINAVISKA ENSKILDA BANKEN AB	A+	Aa3	AA-
Switzerland	SIX SIS AG ²	UNDEF	UNDEF	UNDEF	SIX GROUP AG	A	UNDEF	UNDEF
Switzerland	Societe Generale – Zürich Branch ¹	A	A1	A-	SOCIETE GENERALE	A	A1	A-
Thailand	The Hongkong and Shanghai Banking Corporation Limited - Bangkok	AA-	Aa3	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+

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Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Taiwan	The Hongkong and Shanghai Banking Corporation Limited - Taipei	A+	UNDEF	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+
Country	Sub-custodian	S&P	Moody's	Fitch	Parent Company Name	S&P	Moody's	Fitch
Togo	Societe Generale de Banque en Côte d'Ivoire SA - Abidjan	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Tunisia	Union Internationale de Banques (UIB) - Tunis ¹	UNDEF	UNDEF	UNDEF	SOCIETE GENERALE	A	A1	A-
Turkey	Türk Ekonomi Bankasi A.S. - Istanbul	UNDEF	B3	B-	BNP PARIBAS	A+	Aa3	A+
Ukraine	Citibank NA ²	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
United Arab Emirates	First Abu Dhabi Bank PJSC Abu Dhabi	AA-	Aa3	AA-	NATIONAL BANK OF ABU DHABI	AA-	Aa3	AA-
United Kingdom	BNP Paribas Securities Services SA, UK Branch	UNDEF	UNDEF	UNDEF	BNP PARIBAS	A+	Aa3	A+
United States	Brown Brothers Harriman & Co New York ¹	UNDEF	UNDEF	UNDEF	BROWN BROTHERS HARRIMAN	UNDEF	UNDEF	UNDEF
United States	Citibank NA	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
	Pershing LLC ²	UNDEF	UNDEF	UNDEF	BANK OF NEW YORK MELLON	UNDEF	UNDEF	UNDEF
	BNP Paribas Securities Services SA, NY Branch ¹	A+	Aa3	A+	BNP PARIBAS	A+	Aa3	A+
Uruguay	Citibank NA ¹	A+	Aa3	A+	CITIGROUP INC	BBB+	A3	A
Vietnam	HSBC Bank (Vietnam) Limited HO Chi Minh ¹	UNDEF	UNDEF	UNDEF	HSBC HOLDINGS PLC	A-	A3	A+

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² SGSS Italy sub-custodians only