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Agent and Cash Network (Custody & Fund Services)

Market	Subcustodian	Cash Correspondent Bank
Argentina	HSBC Bank Argentina S.A. Bouchard 557, 18th Floor Buenos Aires C1106ABJ Argentina	HSBC Bank Argentina S.A. Buenos Aires
Australia	JPMorgan Chase Bank N.A. <small>J.P. Morgan affiliate</small> Level 31, 101 Collins Street Melbourne 3000 Australia	Australia and New Zealand Banking Group Ltd. Melbourne JPMorgan Chase Bank N.A., Sydney Branch (for clients utilizing J.P. Morgan's domestic AUD solution)) <small>J.P. Morgan affiliate</small> Sydney
Austria	UniCredit Bank Austria AG Julius Tandler Platz - 3, Vienna A-1090 Austria	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt
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	J.P. Morgan Bank Luxembourg S.A. (for clients contracting with this entity and JPMorgan Chase Bank, N.A.) <small>J.P. Morgan affiliate</small> European Bank & Business Centre, 6, route de Treves Senningerberg L-2633 Luxembourg BNP Paribas Securities Services S.C.A. (for clients contracting with J.P. Morgan (Suisse) SA and for all Belgian Bonds settling in the National Bank of Belgium (NBB) and Physical Securities held by clients) Central Plaza Building, Rue de Lozum, 25, 7th	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main

Market	Subcustodian	Cash Correspondent Bank
	<p>Floor Brussels 1000 Belgium</p> <p>J.P. Morgan Bank (Ireland) PLC (for clients contracting with this entity) J.P. Morgan affiliate 200 Capital Dock, 79 Sir John Rogerson's Quay Dublin D02 RK57 Ireland</p>	
Bermuda	<p>HSBC Bank Bermuda Limited 37 Front Street Hamilton HM 11 Bermuda</p>	<p>HSBC Bank Bermuda Limited Hamilton</p>
Botswana	<p>Standard Chartered Bank Botswana Limited 5th Floor, Standard House, P.O. Box 496, Queens Road, The Mall Gaborone Botswana</p>	<p>Standard Chartered Bank Botswana Limited Gaborone</p>
Brazil	<p>J.P. Morgan S.A. DTVM J.P. Morgan affiliate Av. Brigadeiro Faria Lima, 3729, Floor 06 Sao Paulo SP 04538 905 Brazil</p>	<p>J.P. Morgan S.A. DTVM J.P. Morgan affiliate Sao Paulo</p>
Bulgaria	<p>Citibank Europe plc Serdika Offices, 10th Floor, 48 Sitnyakovo Blvd Sofia 1505 Bulgaria</p>	<p>ING Bank N.V. Sofia</p>
Canada	<p>CIBC Mellon Trust Company (Note: Clients please refer to your issued settlement instructions) 1 York Street, Suite 900 Toronto Ontario M5J 0B6 Canada</p> <p>Royal Bank of Canada (Note: Clients please refer to your issued settlement instructions) 155 Wellington Street West Toronto M5V 3L3 Canada</p>	<p>Royal Bank of Canada Toronto</p>
Chile	<p>Banco Santander Chile Bandera 140, Piso 4 Santiago Chile</p>	<p>Banco Santander Chile Santiago</p>
China A-Share Please refer to your Client Relationship Team for additional subcustodial options	<p>JPMorgan Chase Bank (China) Company Limited (Note: Clients please refer to your issued settlement instructions) J.P. Morgan affiliate 41st floor, Park Place, No. 1601, West Nanjing Road, Jingan District Shanghai The People's Republic of China</p> <p>HSBC Bank (China) Company Limited (Note: Clients please refer to your issued settlement instructions) 33/F, HSBC Building, Shanghai IFC, 8 Century</p>	<p>JPMorgan Chase Bank (China) Company Limited (Note: Clients please refer to your issued settlement instructions) J.P. Morgan affiliate Shanghai</p> <p>HSBC Bank (China) Company Limited (Note: Clients please refer to your issued settlement instructions) Shanghai</p>

Market	Subcustodian	Cash Correspondent Bank
	Avenue, Pudong Shanghai 200120 The People's Republic of China	
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. J.P. Morgan affiliate New York JPMorgan Chase Bank, N.A. J.P. Morgan affiliate Hong Kong
China Connect	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate 48th Floor, One Island East, 18 Westlands Road, Quarry Bay Hong Kong Island Hong Kong	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate Hong Kong
Colombia	Cititrust Colombia S.A. Carrera 9 A #99-02, 3rd Floor Bogota Colombia	Cititrust Colombia S.A. Bogota
Costa Rica Restricted service only. Please contact your Relationship Manager for further information	Banco BCT S.A. 150 Metros Norte de la Catedral Metropolitana, Edificio BCT San Jose Costa Rica	Banco BCT S.A. San Jose
Croatia	Privredna banka Zagreb d.d. Radnicka cesta 50 Zagreb 10000 Croatia	Zagrebacka banka d.d. Zagreb
Cyprus	HSBC France Athens Branch 109-111, Messogion Ave. Athens 11526 Greece	J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main
Czech Republic	UniCredit Bank Czech Republic and Slovakia, a.s. BB Centrum - FILADELFIE, Zeletavska 1525-1, Prague 1 Prague 140 92 Czech Republic	eskoslovenská obchodní banka a.s. Prague
Denmark	Nordea Bank Abp Christiansbro, Strandgade 3, P.O. Box 850 Copenhagen DK-0900 Denmark	Nordea Bank Abp Copenhagen
Egypt	Citibank N.A., Egypt Boomerang Building, Plot 46, Zone J, 1st district, 5th Settlement, New Cairo 11511 Egypt	Citibank N.A., Egypt New Cairo
Estonia	Swedbank AS Liivalaia 8 Tallinn 15040 Estonia	J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main
Finland	Nordea Bank Abp Satamaradankatu 5 Helsinki FIN-00020 Nordea Finland	J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main
France	BNP Paribas Securities Services S.C.A. (for clients contracting with J.P. Morgan (Suisse))	J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main

Market	Subcustodian	Cash Correspondent Bank
	<p>SA and for Physical Securities and Ordre de Mouvement (ODMs) held by clients) 3, Rue d'Antin Paris 75002 France</p> <p>J.P. Morgan Bank Luxembourg S.A. (for clients contracting with this entity and JPMorgan Chase Bank, N.A.) J.P. Morgan affiliate European Bank & Business Centre, 6, route de Treves Senningerberg L-2633 Luxembourg</p> <p>J.P. Morgan Bank (Ireland) PLC (for clients contracting with this entity) J.P. Morgan affiliate 200 Capital Dock, 79 Sir John Rogerson's Quay Dublin D02 RK57 Ireland</p>	
Germany	<p>J.P. Morgan AG (for domestic German custody clients only) J.P. Morgan affiliate Taunustor 1 (TaunusTurm) Frankfurt am Main 60310 Germany</p> <p>Deutsche Bank AG Alfred-Herrhausen-Allee 16-24 Eschborn D-65760 Germany</p>	J.P. Morgan AG J.P. Morgan affiliate 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. Athens 11526 Greece	J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main
Hong Kong	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate 48th Floor, One Island East, 18 Westlands Road, Quarry Bay Hong Kong Island Hong Kong	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate Hong Kong
Hungary	Deutsche Bank AG Hold utca 27 Budapest H-1054 Hungary	ING Bank N.V. Budapest
Iceland Restricted service only. Please contact your Relationship Manager for further information	Islandsbanki hf. Kirkjusandur 2 Reykjavik IS-155 Iceland	Islandsbanki hf. Reykjavik
India	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate 6th Floor, Paradigm B Wing, Mindspace, Malad (West) Mumbai 400 064 India	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate Mumbai

Market	Subcustodian	Cash Correspondent Bank
Indonesia	PT Bank HSBC Indonesia WTC 3 Building - 8th floor Jl. Jenderal Sudirman Kav. 29-31 Jakarta 12920 Indonesia	PT Bank HSBC Indonesia Jakarta
Ireland	JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small> 25 Bank Street Canary Wharf London E14 5JP United Kingdom	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Israel	Bank Leumi le-Israel B.M. 35, Yehuda Halevi Street Tel Aviv 65136 Israel	Bank Leumi le-Israel B.M. Tel Aviv
Italy	J.P. Morgan Bank (Ireland) PLC (for clients contracting with this entity. Clients contracting with J.P. Morgan Bank Luxembourg S.A. please refer to your issued settlement instructions) <small>J.P. Morgan affiliate</small> 200 Capital Dock, 79 Sir John Rogerson's Quay Dublin D02 RK57 Ireland BNP Paribas Securities Services S.C.A. (for clients contracting with J.P. Morgan Chase Bank, N.A. and J.P. Morgan (Suisse) SA. Clients contracting with J.P. Morgan Bank Luxembourg S.A. please refer to your issued settlement instructions) Piazza Lina Bo Bardi 3 Milan 20124 Italy	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Japan	Mizuho Bank Ltd. (Note: Clients please refer to your issued settlement instructions) 2-15-1, Konan, Minato-ku Tokyo 108-6009 Japan MUFG Bank, Ltd. (Note: Clients please refer to your issued settlement instructions) 1-3-2 Nihombashi Hongoku-cho, Chuo-ku Tokyo 103-0021 Japan	JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small> 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	HSBC Bank Middle East Limited

Market	Subcustodian	Cash Correspondent Bank
	Kuwait City, Sharq Area Safat 13017 Kuwait	Safat
Latvia	Swedbank AS Balast dambis 1a Riga LV-1048 Latvia	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Lithuania	AB SEB Bankas 12 Gedimino pr. Vilnius LT 2600 Lithuania	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Luxembourg	BNP Paribas Securities Services S.C.A. 60 Avenue John F. Kennedy Luxembourg L-1855 Luxembourg	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Malawi <small>Restricted service only. Please contact your Relationship Manager for further information</small>	Standard Bank Limited 1st Floor Kaomba House, Cnr Glyn Jones Road & Victoria Avenue Blantyre Malawi	Standard Bank Limited Blantyre
Malaysia	HSBC Bank Malaysia Berhad 2 Leboh Ampang, 12th Floor, South Tower Kuala Lumpur 50100 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 Mexico, D.F. 1210 Mexico	Banco Santander (Mexico) S.A. Ciudad de México, C.P.
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
Netherlands	J.P. Morgan Bank Luxembourg S.A. (for clients contracting with this entity and JPMorgan Chase Bank, N.A.) <small>J.P. Morgan affiliate</small> European Bank & Business Centre, 6, route de Treves Senningerberg L-2633 Luxembourg BNP Paribas Securities Services S.C.A. (for clients contracting with J.P. Morgan (Suisse) SA)	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main

Market	Subcustodian	Cash Correspondent Bank
	<p>Herengracht 595 Amsterdam 1017 CE Netherlands</p> <p>J.P. Morgan Bank (Ireland) PLC (for clients contracting with this entity) J.P. Morgan affiliate 200 Capital Dock, 79 Sir John Rogerson's Quay Dublin D02 RK57 Ireland</p>	
New Zealand	<p>JPMorgan Chase Bank, N.A. J.P. Morgan affiliate Level 13, 2 Hunter Street Wellington 6011 New Zealand</p>	<p>JPMorgan Chase Bank, N.A. New Zealand Branch (for clients utilizing J.P. Morgan's domestic NZD solution) J.P. Morgan affiliate Wellington</p> <p>Westpac Banking Corporation Wellington</p>
Nigeria	<p>Stanbic IBTC Bank Plc Plot 1712, Idejo Street Victoria Island Lagos Nigeria</p>	<p>Stanbic IBTC Bank Plc Lagos</p>
Norway	<p>Nordea Bank Abp Essendropsgate 7, P.O. Box 1166 Oslo NO-0107 Norway</p>	<p>Nordea Bank Abp Oslo</p>
Oman	<p>HSBC Bank Oman S.A.O.G. 2nd Floor Al Khuwair P.O. Box 1727 Seeb PC 111 Oman</p>	<p>HSBC Bank Oman S.A.O.G. Seeb</p>
Pakistan	<p>Standard Chartered Bank (Pakistan) Limited P.O. Box 4896, Ismail Ibrahim Chundrigar Road Karachi 74000 Pakistan</p>	<p>Standard Chartered Bank (Pakistan) Limited Karachi</p>
Peru	<p>Citibank del Perú S.A. Canaval y Moreryra 480 Piso 3, San Isidro San Isidro, L-27 L-27 Lima, Peru</p>	<p>Banco de Crédito del Perú Lima 012</p>
Philippines	<p>The Hongkong and Shanghai Banking Corporation Limited 7/F HSBC Centre, 3058 Fifth Avenue West, Bonifacio Global City Taguig City 1634 Philippines</p>	<p>The Hongkong and Shanghai Banking Corporation Limited Taguig City</p>
Poland	<p>Bank Handlowy w. Warszawie S.A. ul. Senatorska 16 Warsaw 00-923 Poland</p>	<p>mBank S.A. Warsaw</p>
Portugal	<p>BNP Paribas Securities Services S.C.A. Avenida D.João II, Lote 1.18.01, Bloco B, 7º andar Lisbon 1998-028 Portugal</p>	<p>J.P. Morgan AG J.P. Morgan affiliate Frankfurt am Main</p>
Qatar	<p>HSBC Bank Middle East Limited 2nd Floor, Ali Bin Ali Tower, Building 150,</p>	<p>The Commercial Bank (P.Q.S.C.) Doha</p>

Market	Subcustodian	Cash Correspondent Bank
	Airport Road Doha Qatar	
Romania	Citibank Europe plc 145 Calea Victoriei, 1st District Bucharest 10072 Hungary	ING Bank N.V. Bucharest
Russia	Commercial Bank “J.P. Morgan Bank International” (Limited Liability Company) <small>J.P. Morgan affiliate</small> 10, Butyrsky Val, White Square Business Centre, Floor 12 Moscow 125047 Russia	Sberbank of Russia Moscow JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small> New York
Saudi Arabia	J.P. Morgan Saudi Arabia Company (Note: Clients please refer to your issued settlement instructions) <small>J.P. Morgan affiliate</small> Al Faisaliah Tower, Level 8, P.O. Box 51907 Riyadh 11553 Saudi Arabia HSBC Saudi Arabia (Note: Clients please refer to your issued settlement instructions) 2/F HSBC Building, 7267 Olaya Street North, Al Murooj Riyadh 12283-2255 Saudi Arabia	JPMorgan Chase Bank, N.A. - Riyadh Branch <small>J.P. Morgan affiliate</small> Riyadh The Saudi British Bank Riyadh
Serbia	Unicredit Bank Srbija a.d. Rajiceva 27-29 Belgrade 11000 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 Bratislava SK-813 33 Slovak Republic	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
Slovenia	UniCredit Banka Slovenija d.d. Smartinska 140 Ljubljana SI-1000 Slovenia	J.P. Morgan AG <small>J.P. Morgan affiliate</small> Frankfurt am Main
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	Kookmin Bank Co. Ltd. (Note: Clients please refer to your issued settlement instructions) 84, Namdaemun-ro, Jung-gu Seoul 100-845 South Korea	Kookmin Bank Co. Ltd. (Note: Clients please refer to your issued settlement instructions) Seoul Standard Chartered Bank Korea Limited (Note:

Market	Subcustodian	Cash Correspondent Bank
	Standard Chartered Bank Korea Limited (Note: Clients please refer to your issued settlement instructions) 47 Jongro, Jongro-Gu Seoul 3160 South Korea	Clients please refer to your issued settlement instructions) Seoul
Spain	Santander Securities Services, S.A. Parque Empresarial La Finca, Pozuelo de Alarcón Madrid 28223 Spain	J.P. Morgan AG <small>J.P. Morgan affiliate</small> 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 Abp Hamngatan 10 Stockholm SE-105 71 Sweden	Svenska Handelsbanken Stockholm
Switzerland	UBS Switzerland AG 45 Bahnhofstrasse Zurich 8021 Switzerland	UBS Switzerland AG Zurich
Taiwan	JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small> 8th Floor, Cathay Xin Yi Trading Building, No. 108, Section 5, Xin Yi Road Taipei 11047 Taiwan	JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small> Taipei
Tanzania <small>Restricted service only. Please contact your Relationship Manager for further information</small>	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
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, Umraniye Istanbul 34768 Turkey	JPMorgan Chase Bank, N.A. Istanbul Branch <small>J.P. Morgan affiliate</small> Istanbul
Uganda	Standard Chartered Bank Uganda Limited 5 Speke Road, PO Box 7111 Kampala Uganda	Standard Chartered Bank Uganda Limited Kampala
Ukraine	JSC Citibank	JPMorgan Chase Bank, N.A. <small>J.P. Morgan affiliate</small>

Market	Subcustodian	Cash Correspondent Bank
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United Arab Emirates	HSBC Bank Middle East Limited Emaar Square, Level 4, Building No. 5, P.O. Box 502601 Dubai United Arab Emirates	First Abu Dhabi Bank P.J.S.C Dubai JPMorgan Chase Bank, N.A. J.P. Morgan affiliate New York
United Kingdom	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate 4 New York Plaza New York 10004 United States Deutsche Bank AG Depository and Clearing Centre 10 Bishops Square London E1 6EG United Kingdom	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate New York
United States	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate 4 New York Plaza New York 10004 United States	JPMorgan Chase Bank, N.A. J.P. Morgan affiliate New York
Uruguay	Banco Itaú Uruguay S.A. Zabala 1463 Montevideo 11000 Uruguay	Banco Itaú Uruguay S.A. Montevideo
Vietnam	HSBC Bank (Vietnam) Ltd. 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) Restricted service only. Please contact your Relationship Manager for further information	Standard Chartered Bank Côte d'Ivoire SA 23 Boulevard de la Republique 1 Abidjan 01 B.P. 1141 Ivory Coast	Standard Chartered Bank Côte d'Ivoire SA Abidjan
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 Restricted service only. Please contact your Relationship Manager for further information	Stanbic Bank Zimbabwe Limited Stanbic Centre, 3rd Floor, 59 Samora Machel Avenue Harare Zimbabwe	Stanbic Bank Zimbabwe Limited Harare

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