

## Mitsubishi UFJ Investor Services & Banking (Luxembourg) S.A. - Sub-custodians list

| <u>COUNTRY</u>            | <u>SUB-CUSTODIAN</u>                        | <u>LOCAL SUB-CUSTODIAN</u>  |
|---------------------------|---|---|
| ARGENTINA                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK N.S. BUENOS AIRES BRANCH   |
| AUSTRALIA                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BK AUSTRALIA   |
| AUSTRIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | UNICREDIT BK AUSTRIA  |
| BAHRAIN                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK MIDDLE EAST LIMITED, BAHRAIN BRANCH   |
| BANGLADESH                | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK, BANGLADESH BRANCH  |
| BELGIUM                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BNP PARIBAS SECURITIES SERVICES BELGIUM   |
| BERMUDA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK OF BERMUDA LIMITED  |
| BOSNIA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | UNICREDIT BANK D.D. (HUB MARKET SERVICED OUT OF UNICREDIT BANK AUSTRIA)   |
| BOTSWANA                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK BOTSWANA LIMITED  |
| BRAZIL                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK BRAZIL   |
| BULGARIA                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK EUROPE PLC, BULGARIA BRANCH  |
| CANADA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | ROYAL BANK OF CANADA INV SERVICES   |
| CHILE                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANCO DE CHILE FOR CITIBANK NA  |
| CHINA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK (CHINA) LTD SHG   |
| CHINA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK (CHINA) LTD SHZ   |
| COLOMBIA                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITITRUST COLOMBIA  |
| COSTA RICA                | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANCO BCT SA  |
| CROATIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | ZAGREBACKA BANKA D.D.   |
| CYPRUS                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BNP PARIBAS SECURITIES SERVICES   |
| CZECH REPUBLIC            | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK EUROPE CZECH   |
| DENMARK                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | SKANDINAVISKA ENSKILDA BANKEN DENMARK   |
| ECUADOR                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANCO DE LA PRODUCCION S.A.   |
| EGYPT                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK N.A. CAIRO   |
| ESTONIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | SWEDBANK AS (HUB MARKET SERVICED OUT OF NORDEA BANK FINLAND)  |
| FINLAND                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | NORDEA BANK FINLAND   |
| FRANCE                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CACEIS BANK FRANCE  |
| GERMANY                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | DEUTSCHE FRANKFURT  |
| GHANA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK OF GHANA LTD  |
| GREECE                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BK PLC ATHENS  |
| HONG KONG                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC HONG KONG  |
| HUNGARY                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | UNICREDIT HUNGARY   |
| ICELAND                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | LANDSBANKINN HF   |
| INDIA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | DEUTSCHE BANK AG - MUMBAI BRANCH  |
| INDIA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC INDIA  |
| INDONESIA                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK INDONESIA   |
| IRELAND                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK LONDON   |
| ISRAEL                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANK HAPOALIM BM  |
| ITALY                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BNP PARIBAS SECURITIES SERVICES MILAN   |
| IVORY COAST               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK COTE D'IVOIRE   |
| JAPAN                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | THE BANK OF TOKYO-MITSUBISHI UFJ, LTD   |
| KAZAKHSTAN                | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | JSC CITIBANK KAZAKHSTAN   |
| KENYA                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK KENYA LIMITED   |
| KUWAIT                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  |
| LATVIA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | "SWEDBANK" AS (HUB MARKET SERVICED OUT OF NORDEA BANK FINLAND)  |
| LEBANON                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK MIDDLE EAST LIMITED, LEBANON BRANCH   |
| LITHUANIA                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | SWEDBANK AB   |
| LUXEMBOURG                | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | KBL EUROPEAN PRIVATE BANKERS SA   |
| MALAYSIA                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK MALAYSIA BERHAD   |
| MAURITIUS                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | THE HONGKONG AND SHANGHAI BANKING CORPORATION LIMITED, MAURITIUS BRANCH   |
| MEXICO                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANCO SANTANDER MEX   |
| MOROCCO                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK MAGHREB  |
| NAMIBIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD BANK NAMIBIA LIMITED   |
| NETHERLANDS               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BNP PARIBAS SECURITIES SERVICES NETHERLANDS   |
| NEW ZEALAND               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC NEW ZEALAND  |
| NIGERIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANBIC IBTC BANK PLC   |
| NORWAY                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | SKANDINAVISKA ENSKILDA BANKEN NORWAY  |
| OMAN                      | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK OMAN SAOG   |
| PAKISTAN                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK (PAKISTAN) LIMITED  |
| PALESTINE AUTONOMOUS AREA | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC BANK MIDDLE EAST LIMITED, PALESTINE BRANCH   |
| PERU                      | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK DEL PERU SA  |
| PHILIPPINES               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK PHILIPPINES   |
| POLAND                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BANK POLSKA KASA OPIEKI SA  |
| PORTUGAL                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | BNP PARIBAS SECURITIES SERVICES PORTUGAL  |
| QATAR                     | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC QATAR  |
| ROMANIA                   | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK EUROPE PLC DUBLIN - SUCURSALA ROMANIA  |
| RUSSIA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | AO CITIBANK   |
| RWANDA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | KCB BANK RWANDA LIMITED (SCB'S APPOINTED AGENT) VIA STANDARD CHARTERED BANK (MAURITIUS) LIMITED (OPERATIONAL SERVICE HUB) |
| SAUDIA ARABIA             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | HSBC SAUDI ARABIA LIMITED   |
| SERBIA                    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | UNICREDIT BANK SERBIA JSC (HUB MARKET SERVICED OUT OF UNICREDIT BANK AUSTRIA)   |
| SINGAPORE                 | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | STANDARD CHARTERED BANK, SINGAPORE BRANCH   |
| SLOVAKIA                  | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A. | CITIBANK EUROPE PLC, POBOČKA ZAHRANIČNEJ BANKY  |

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| SLOVENIA             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | UNICREDIT SLOVENIA                             |
| SOUTH AFRICA         | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD CHARTERED BANK SOUTH AFRICA           |
| SOUTH KOREA          | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | HSBC KOREA                                     |
| SPAIN                | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | SOCIETE GENERALE SPAIN                         |
| SRI LANKA            | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | HSBC SRI LANKA                                 |
| SWAZILAND            | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD BANK SWAZILAND LTD                    |
| SWEDEN               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | SKANDINAVISKA ENSKILDA BANKEN AB PUBL          |
| SWITZERLAND          | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | UBS SWITZERLAND AG                             |
| TAIWAN               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD CHARTERED BANK (TAIWAN) LTD           |
|                      |   | STANDARD CHARTERED BANK (TANZANIA) LIMITED VIA |
| TANZANIA             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | OPERATIONAL HUB                                |
|                      |   | STANDARD CHARTERED BANK (THAI) PCL             |
| THAILAND             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | HSBC THAILAND                                  |
| THAILAND             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | REPUBLIC BANK LIMITED                          |
| TRINIDAD & TOBAGO    | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | UNION INTERNATIONALE DE BANQUES (UIB)          |
| TUNISIA              | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | CITIBANK ANONIM SIRKETI                        |
| TURKEY               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD CHARTERED BANK UGANDA LIMITED         |
| UGANDA               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | PJSC "CITIBANK"                                |
| UKRAINE              | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | HSBC BANK MIDDLE EAST LIMITED                  |
| UNITED ARAB EMIRATES | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | N/A  |
| UNITED KINGDOM       | BANK OF NEW YORK MELLON LONDON                    | DEPOSITORY TRUST COMPANY                       |
| UNITED STATES        | MITSUBISHI UFJ TRUST AND BANKING CORPORATION, USA | BROWN BROTHERS HARRIMAN USA                    |
| UNITED STATES        | MITSUBISHI UFJ TRUST AND BANKING CORPORATION, USA | BANCO ITAU URUGUAY SA                          |
| URUGUAY              | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | CITIBANK N.A. - CARACAS BRANCH                 |
| VENEZUELA            | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | HSBC BANK VIETNAM                              |
| VIETNAM              | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD CHARTERED BANK ZAMBIA PLC             |
| ZAMBIA               | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       | STANDARD CHARTERED BANK ZIMBABWE LIMITED       |
| ZIMBABWE             | BROWN BROTHERS HARRIMAN (LUXEMBOURG) S.C.A.       |  |

## **BONDS**

### **COUNTRY**

ARGENTINA  
 AUSTRALIA  
 AUSTRIA  
 BELGIUM  
 CANADA  
 DENMARK  
 FINLAND  
 FRANCE  
 FRANCE  
 GERMANY  
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 GREECE  
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 MEXICO  
 NETHERLANDS  
 NEW ZEALAND  
 NORWAY  
 POLAND  
 RUSSIAN FEDERAT  
 SINGAPORE  
 SLOVAKIA  
 SOUTH AFRICA  
 SPAIN  
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### **SUB-CUSTODIAN**

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 EUROCLEAR BRUSSELS S.A.

### **LOCAL SUB-CUSTODIAN**

CAJA DE VALORES BUENOS AIRES  
 HSBC AUSTRALIA  
 OSTERREICHISCHE KONTROLLBANK WIEN  
 BANQUE NATIONALE DE BELGIQUE, BXL  
 ROYAL BANK OF CANADA, TORONTO  
 VP-VAERDIPAPIRCENTRALEN TAASTRUP  
 EFI RAMSES  
 BP2S LISBOA  
 EUROCLEAR FRANCE  
 CLEARSTREAM BANKING, FRANKFURT  
 DEUTSCHE BANK, FRANKFURT  
 CITIBANK ATHENS  
 DEUTSCHE BANK AG,HONG KONG  
 HONGKONG SHANGHAI BKG CORP,HKG  
 CITIBANK BUDAPEST  
 CENTRAL BK/FIN SERV AUTH IRELAND  
 US BANK - COMMON DEP  
 MONTE TITOLI S.P.A.  
 MIZUHO CORPORATE BANK LTD, TOKYO  
 BIL, LUXEMBOURG  
 BNP PARIBAS SEC SERVICES, LUX  
 BQUE CAISSE D'EPARG. DE L'ETAT  
 CACEIS BANK LUXEMBOURG  
 MIZUHO TRUST & BANKING LUX  
 SOC.GEN.BANK & TRUST, LUXEMBOURG  
 BANCO SANTANDER, MEXICO  
 EUROCLEAR NEDERLAND  
 HSBC NEW ZEALAND  
 NORDEA BANK NORGE ASA  
 BANK HANDLOWY W WARSZAWIE SA  
 JSC VTB BANK, MOSCOW  
 DEVELOPMENT BK OF SINGAPORE  
 CITIBANK BRATISLAVA  
 STANDARD BANK OF SOUTH AFRICA  
 SANTANDER CENTRAL HISPANO INVESTM  
 SKANDINAVISKA ENSKILDA BK,STOK  
 CREDIT SUISSE, ZURICH  
 BANGKOK BANK LIMITED, BANGKOK  
 BANK OF AMERICA NAT ASSOC  
 BANK OF NEW YORK MELLON, LONDON  
 BANK OF TOKYO-MITSUBISHI UFJ LDN  
 CITIBANK EUROPE PLC, DUBLIN  
 CITIBANK NA, LONDON  
 CREST-EQUITIES  
 DEUTSCHE BANK AG, LONDON BRANCH  
 HSBC BANK PLC, LONDON  
 JPMORGAN CHASE BANK,NY