

# Product Specification ICB Data Services

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# Product Specification

## ICB Database Service Options

Full database service

Regional database service: Europe/MEA; Asia Pacific; America; US

The above service options are available on a weekly refresh basis. Daily changes are also available as an additional service.

## File Names ICB Weekly Database Files

| File Names                   | File Extensions |
|------------------------------|-----------------|
| ICB Database - Full Universe | ifddmm.txt      |
| ICB Database - Europe/MEA    | ieddmm.txt      |
| ICB Database - Asia Pacific  | ipddmm.txt      |
| ICB Database – Americas      | iaddmm.txt      |
| ICB Database – US            | iuddmm.txt      |

## File Names ICB Daily Changes File

| File Names                                 | File Extensions |
|--|-----------------|
| ICB Database - Full Universe Daily Changes | xfddmm.txt      |
| ICB Database - Europe/MEA Daily Changes    | xeddmm.txt      |
| ICB Database - Asia Pacific Daily Changes  | xpddmm.txt      |
| ICB Database -Americas Daily Changes       | xaddmm.txt      |
| ICB Database - US Daily Changes            | xuddmm.txt      |

## Service Timing

- Weekly Universe product** files are produced on the last business day of the week and are available by 2200 hours EST {US Eastern Standard Time). These files contain the market closing information for the effective date of the file.

- **Daily Changes product** files are produced at the end of each business day and are available by 2200 hours EST. These files contain the market closing information for the effective date of the file.

## File Content

### ICB Services File Format

ICB Database is a pipe (|) delimited text file. Each product file is the same in structure but the last column will only be populated in the daily changes product, as described in the service options above and listed in the file format layout below. Reference codes applicable for data within the field name columns are in the appendices of this document.

| Col No. | Field Name           | Data Description   | Data Example | Max Width |
|---------|----------------------|--|--------------|-----------|
| 1       | UNIQUE IDENTIFIER    | A unique internal identifier for each security   | 01914        | 10        |
| 2       | ISIN CODE            | ISIN identification Code provided on a best endeavor basis   | US0019575051 | 12        |
| 3       | SEDOL                | SEDOL code   | 2064888      | 7         |
| 4       | CUSIP                | CUSIP code for North American companies  | 001957505    | 9         |
| 5       | LOCAL MARKET CODE    | Local market code of security as traded on local exchange  | T            | 22        |
| 6       | SECURITY NAME        | Name of security   | AT&T Corp    | 150       |
| 7       | COMPANY CODE         | A unique company code to identify each individual company, not individual securities, therefore code may be duplicated             | 00000        | 10        |
| 8       | COUNTRY CODE         | ISO country code identifies the country where the security primarily trades  | US           | 2         |
| 9       | DOMICILE CODE        | ISO country code identifies the country in which the security is registered as a company   | US           | 2         |
| 10      | MIC CODE             | ISO Exchange MIC Code where the company has a primary listing  | XNYS         | 15        |
| 11      | ICB INDUSTRY CODE    | ICB "Industry" identifier code   | 6000         | 4         |
| 12      | ICB SUPERSECTOR CODE | ICB "Supersector" identifier code  | 6500         | 4         |
| 13      | ICB SECTOR CODE      | ICB "Sector" identifier code   | 6530         | 4         |
| 14      | ICB SUBECTOR CODE    | ICB "Subsector" identifier code  | 6535         | 4         |
| 15      | ICB CHANGE CODE      | Change code(s) is shown for each item that has changed and is separated by a semi colon. This field is not in the database product | II;NC        | 256       |

Notes: Identifiers and codes are provided on a best endeavours basis.

### Notes to ICB Data Service

1. The ICB Data Service provides four levels of industry classification for each company contained within the product. The product covers all universe securities classified by FTSE. This includes all index

components along with the broader universe coverage which are monitored by FTSE on a continuous basis.

2. Data items such as exchange codes, company name and country codes may not correspond to other FTSE products but can be identified by security identification codes such as SEDOL, CUSIP and ISIN.
3. The ICB Changes Service provides daily notification of classification changes and related peripheral data items to the ICB Data Service.
4. The data within the Daily Change file represents new/changed values, where applicable.
5. The Daily Change file product displays a two digit code which relates to the following change descriptors:

## ICB Change Codes

| Change Code | FTSE Change Code Description |
|-------------|------------------------------|
| CA          | Company Addition             |
| CD          | Company Deletion             |
| II          | ISIN Code Change             |
| SC          | SEDOL Change                 |
| CS          | CUSIP Change                 |
| LC          | Local Market Code Change     |
| NC          | Name Change                  |
| CC          | Country Code Change          |
| DC          | Domicile Code Change         |
| EC          | MIC Exchange Code Change     |
| SS          | Subsector Change             |

### File Example: ICB Database US - iuddmm.txt

17/12/2004 © 2004 Industry Classification Benchmark (ICB) All Rights Reserved ICB Universe- US

Unique Identifier|ISIN Code|SEDOL|CUSIP|Local Market Code|Security  
Name|Company Code|Country Code|Domicile Code|MIC Code|ICB Industry  
Code|ICB Supersector Code|ICB Sector Code|ICB Subsector Code

C65297IUS3369011032I2341848I3369011 0313369011 031"1<sup>st</sup>

Source"IIUSIIXNAS18000183001835018355

xxxxxxxxxx

### File Example: ICB Daily Changes US - xuddmm.txt

15/12/2004 (C) 2004 Industry Classification Benchmark (ICB) All Rights Reserved ICB Universe- US Daily  
Changes

Unique Identifier|ISIN Code|SEDOL|CUSIP|Local Market Code|Security  
Name|Company Code|Country Code|Domicile Code|MIC Code|ICB Industry  
Code|ICBSupersector Code|ICB Sector Code|ICB Subsector Code|ICB Change Code

C985421US20862641 011B051 B1512082641 0112082641 011"Conor  
Medsystems"||US||XNAS||||CA  
XXXXXXXXXX

# Appendices

## Country Coverage & ISO Codes (Country & Domicile)

| Country                   | ISO Code | Country               | ISO Code | Country   | ISO Code | Country                               | ISO Code | Country                     | ISO Code |
|---------------------------|----------|-----------------------|----------|---|----------|---------------------------------------|----------|-----------------------------|----------|
| Albania                   | AL       | China                 | CN       | Greece  | GR       | Maldives                              | MV       | Saudi Arabia                | SA       |
| Algeria                   | DZ       | Colombia              | CO       | Hong Kong   | HK       | Malta                                 | MT       | Serbia                      | RS       |
| Andorra                   | AD       | Comoros               | KM       | Hungary   | HU       | Mauritius                             | MU       | Seychelles                  | SC       |
| Angola                    | AO       | Croatia               | HR       | Iceland   | IS       | Mexico                                | MX       | Singapore                   | SG       |
| Argentina                 | AR       | Croatia               | HR       | India   | IN       | Moldova,<br>Republic Of               | MD       | Slovakia                    | SK       |
| Armenia                   | AM       | Cuba                  | CU       | Indonesia   | ID       | Mongolia                              | MN       | Slovenia                    | SL       |
| Australia                 | AU       | Cyprus                | CY       | Iraq  | IQ       | Montenegro                            | ME       | South Africa                | ZA       |
| Austria                   | AT       | Czech<br>Republic     | CZ       | Ireland   | IE       | Morocco                               | MA       | Spain                       | ES       |
| Azerbaijan                | AZ       | Denmark               | DK       | Israel  | IL       | Mozambique                            | MZ       | Sri Lanka                   | LK       |
| Bahrain                   | BH       | Djibouti              | DJ       | Italy   | IT       | Namibia                               | NA       | Sweden                      | SE       |
| Bangladesh                | BD       | Dominica              | DM       | Jamaica   | JM       | New Zealand                           | NZ       | Switzerland                 | CH       |
| Belgium                   | BE       | Dominican<br>Republic | DO       | Japan   | JP       | Nigeria                               | NG       | Taiwan,                     | TW       |
| Belize                    | BZ       | Egypt                 | EG       | Jordan  | JO       | Norway                                | NO       | Thailand                    | TH       |
| Bosnia And<br>Herzegovina | BA       | Estonia               | EE       | Kazakhstan  | KZ       | Oman                                  | OM       | The<br>Netherlands          | NL       |
| Botswana                  | BR       | Ethiopia              | ET       | Kenya   | KE       | Pakistan                              | PK       | Tunisia                     | TN       |
| Brazil                    | BG       | Fiji                  | FJ       | Korea,<br>Republic of                               | KR       | Palestinian<br>Territory,<br>Occupied | PS       | Turkey                      | TR       |
| Bulgaria                  | KH       | Finland               | FL       | Kuwait  | KW       | Peru                                  | PE       | Ukraine                     | UA       |
| Cambodia                  | CM       | France                | FR       | Latvia  | LV       | Philippines                           | PH       | United Arab<br>Emirates     | AE       |
| Cameroon                  | CA       | Gambia                | GM       | Lebanon   | LB       | Poland                                | PL       | United<br>Kingdom           | GB       |
| Canada                    | CV       | Georgia               | GE       | Lithuania   | LT       | Portugal                              | PT       | United States<br>of America | US       |
| Cape Verde                | TD       | Germany               | DE       | Luxembourg  | LU       | Qatar                                 | QA       | Uzbekistan                  | UZ       |
| Chad                      | CL       | Ghana                 | GH       | Macedonia,<br>The Former<br>Yugoslav<br>Republic Of | MK       | Romania                               |          | Venezuela                   | VE       |
| Chile                     | DZ       | Gibraltar             | GI       | Malaysia  | MY       | Russia<br>Federation                  | RU       | Viet Nam                    | VN       |
|                           |          | Colombia              | CO       |   |          |                                       |          |                             |          |

Note: Countries may be added with advance notice.

## Market Codes

| REGION         | CODE NAME            |
|----------------|----------------------|
| Brazil         | Brazil Local Code    |
| Canada         | Ticker               |
| Chile          | Chile Local Code     |
| China          | China Local Code     |
| Japan          | Japan Local Coda     |
| Mexico         | Mexico Local Code    |
| South Africa   | TIDM (EPIC)          |
| Taiwan         | Taiwan Local Code    |
| United States  | Ticker               |
| United Kingdom | TIDM (EPIC)          |
| Venezuela      | Venezuela Local Code |

## ICB Exchange Codes

Note: Not all of the identifiers listed below are currently covered in the product. New exchanges may be added with advance notice.

| Country    | MIC Code | Exchange Name  | City         |
|------------|----------|--|--------------|
| Albania    | XTIR     | Tirana Stock Exchange  | Tirana       |
| Algeria    | XALG     | Algiers Stock Exchange   | Algiers      |
| Argentina  | XBUE     | Buenos Aires Stock Exchange                                    | Buenos Aires |
| Argentina  | XMTB     | Mercado A Termino De Buenos Aires S.A.                         | Buenos Aires |
| Argentina  | XMAB     | Mercado Abierto Electronico S.A.                               | Buenos Aires |
| Argentina  | XMEV     | Mercado De Valores De Buenos Aires SA                          | Buenos Aires |
| Argentina  | XBCM     | Bolsa De Comercio De Mendoza SA                                | Mendoza      |
| Argentina  | XROS     | Balsa De Comercio Rosario                                      | Rosario      |
| Armenia    | XARM     | Nasdaq Omx Armenia   | Yerevan      |
| Australia  | XNEC     | Stock Exchange Of Newcastle Ltd                                | Newcastle    |
| Australia  | XASX     | Asx Operations Pty Limited                                     | Sydney       |
| Australia  | XYIE     | Yieldbroker Pty Ltd  | Sydney       |
| Austria    | WBGF     | Wiener Boerse Ag Geregelter Freiverkehr (Semi-Official Market) | Vienna       |
| Austria    | XVIE     | Wiener Boerse Ag, Wertpapierboerse (Securities Exchange)       | Vienna       |
| Austria    | XWBO     | Wiener Boerse Ag   | Vienna       |
| Azerbaijan | BSEX     | Baku Stock Exchange  | Baku         |

| Country              | MIC Code | Exchange Name   | City           |
|----------------------|----------|---|----------------|
| Azerbaijan           | XIBE     | Baku Interbank Currency Exchange                      | Baku           |
| Bahamas              | XBAA     | Bahamas International Securities Exchange             | Nasau          |
| Bahrain              | BFEX     | Bahrain Financial Exchange                            | Manama         |
| Bahrain              | XBAH     | Bahrain Stock Exchange                                | Manama         |
| Bangladesh           | XCHG     | Chittagong Stock Exchange Ltd.                        | Chittagong     |
| Bangladesh           | XDHA     | Dhaka Stock Exchange Ltd                              | Dhaka          |
| Barbados             | XBAB     | Barbados Stock Exchange                               | Bridgetown     |
| Belarus              | BCSE     | Belarus Currency And Stock Exchange                   | Minsk          |
| Belgium              | ALXB     | Nyse Euronext – Alternext Brussels                    | Brussels       |
| Belgium              | ENXB     | Nyse Euronext – Easy Next                             | Brussels       |
| Belgium              | MLXB     | Nyse Euronext - Marche Libre Brussels                 | Brussels       |
| Belgium              | XBRU     | Euronext Brussels                                     | Brussels       |
| Bermuda              | XBDA     | Bermuda Stock Exchange Ltd                            | Hamilton       |
| Bolivia              | XBOL     | Bolsa Boliviana De Valores S.A.                       | La Paz         |
| Bosnia & Herzegovina | XBLB     | Banja Luka Stock Exchange                             | Banja Luka     |
| Bosnia & Herzegovina | XSSE     | Sarajevo Stock Exchange                               | Sarajevo       |
| Botswana             | XBOT     | Botswana Stock Exchange                               | Gaborone       |
| Brazil               | BCMM     | Balsa De Cereals A Mercadorias De Maringa             | Maringa        |
| Brazil               | BVMF     | BM & FBOVESPA S.A. Bolsa De Valores, Mercadarias E    | Sao Paulo      |
| Brazil               | CETI     | Cetip SA-Balcao Organizado De Ativos E Derivatives    | Rio de Janeiro |
| Brazil               | SELC     | Sistema Especial De Liquidacao E Custodia De Tiltulos | Rio de Janeiro |
| Bulgaria             | XBUL     | Bulgarian Stock Exchange                              | Sofia          |
| Cameroon             | XDSX     | Douala Stock Exchange                                 | Douala         |
| Canada               | CHIC     | Chi-X Canada Ats                                      | Toronto        |
| Canada               | TMXS     | Tmx Select  | Toronto        |
| Canada               | XCNQ     | Canadian National Stock Exchange                      | Toronto        |
| Canada               | CANX     | Cannex Financial Exchange Lts.                        | Toronto        |
| Canada               | XTSE     | Toronto Stock Exchange                                | Toronto        |
| Canada               | XTSX     | TSX Venture Exchange                                  | Toronto        |
| Canada               | XTNX     | TSX Venture Exchange - Nex                            | Vancouver      |
| Cape Verde           | XBVC     | Cape Verde Stock Exchange                             | Praia          |
| Cayman Islands       | XCAY     | Cayman Islands stock Exchange                         | Georgetown     |
| Chile                | BOVA     | Bolsa De Corredores - Bolsa De Valores                | Valparaiso     |
| Chile                | XBCL     | La Bolsa Electronics De Chile                         | Santiago       |
| Chile                | XSGO     | Santiago Stock Exchange                               | Santiago       |
| China                | XCFE     | China Foreign Exchange Trade System                   | Shanghai       |
| China                | XSHG     | Shanghai Stock Exchange                               | Shanghai       |



| Country        | MIC Code | Exchange Name   | City                  |
|----------------|----------|---|-----------------------|
| China          | XSHE     | Shenzhen Stock Exchange                               | Shenzhen              |
| Colombia       | XBOG     | Bolsa De Valores De Colombia                          | Bogota                |
| Costa Rica     | XBNV     | Bolsa Nacional De Valores, S.A.                       | San Jose              |
| Croatia        | XTRZ     | Zagreb Money And Short Term Securities Market Inc     | Zagreb                |
| Croatia        | XZAM     | The Zagreb Stock Exchange Mtf                         | Zagreb                |
| Croatia        | XZAG     | Zagreb Stock Exchange, The                            | Zagreb                |
| Cyprus         | XCYO     | Cyprus Stock Exchange - Otc                           | Nicosia<br>(Lefkosia) |
| Cyprus         | XCYS     | Cyprus Stock Exchange                                 | Nicosia<br>(Lefkosia) |
| Czech Republic | XPRA     | Stock Exchange Prague Co. Ltd, The                    | Prague                |
| Denmark        | XFND     | First North Denmark                                   | Copenhagen            |
| Denmark        | XCSE     | Copenhagen stock Exchange                             | Copenhagen            |
| Egypt          | XCAI     | Cairo And Alexandria Stock Exchange                   | Cairo                 |
| Estonia        | FNEE     | First North Estonia                                   | Tallinn               |
| Estonia        | XTAL     | Tallinn Stock Exchange                                | Tallinn               |
| Fiji           | XSPS     | South Pacific Stock Exchange                          | Suva                  |
| Finland        | FNFI     | First North Finland                                   | Helsinki              |
| Finland        | XHEL     | Helsinki Stock Exchange, The                          | Helsinki              |
| France         | ALXP     | Nyse Euronext - Alternext Paris                       | Paris                 |
| France         | XMAT     | Euronext Paris - Matif                                | Paris                 |
| France         | XMON     | Euronext Paris- Monep                                 | Paris                 |
| France         | XPAR     | Euronext Paris S.A.                                   | Paris                 |
| France         | XMLI     | Euronext Paris SA - Marche Libre                      | Paris                 |
| Georgia        | XGSE     | Georgia Stock Exchange                                | Tbilisi               |
| Germany        | XNEW     | Newex   | Frankfurt             |
| Germany        | XBER     | Berliner Wertpapierboerse                             | Berlin                |
| Germany        | ZOBX     | Zobex   | Berlin                |
| Germany        | XDUS     | Rheinische-Westfaelische Boerse Zu Düsseldorf         | Düsseldorf            |
| Germany        | XFRA     | Deutsche Boerse Ag                                    | Frankfurt             |
| Germany        | XETR     | Deutscher Kassenverein Ag Gruppe Deutsche Boerse      | Frankfurt             |
| Germany        | XEUB     | EurexBonds  | Frankfurt             |
| Germany        | XEUR     | Eurex Deutschland                                     | Frankfurt             |
| Germany        | XHAM     | Hanseatische Wertpapierboerse Hamburg                 | Hamburg               |
| Germany        | XHAN     | Niedersaechsische Boerse Zu Hannover                  | Hannover              |
| Germany        | XMUN     | Bayerische Boerse                                     | Munich                |
| Germany        | XSTU     | Baden-Wuerttembergische Wertpapierboerse Zu Stuttgart | Stuttgart             |
| Germany        | EUWX     | Euwax   | Stuttgart             |
| Ghana          | XGHA     | Ghana Stock Exchange                                  | Accra                 |
| Greece         | XATH     | Athens Stock Exchange                                 | Athens                |
| Guatemala      | XGTG     | Bolsa De Valores Nacional Sa                          | Guatemala             |
| Guernsey, C.I. | XCIE     | Channel Islands Stock Exchange                        | St. Peter Port        |

| Country            | MIC Code | Exchange Name  | City        |
|--------------------|----------|--|-------------|
| Guyana             | GSCI     | The Guyana Association Of Securities Companies & Intermediaries Inc. | Georgetown  |
| Honduras           | XBCV     | Bolsa Centroamericana De Valores SA                                  | Tegucigalpa |
| Hong Kong          | XHKG     | Stock Exchange Of Hong Kong Ltd, The                                 | Hong Kong   |
| Hungary            | XBUD     | Budapest Stock Exchange  | Budapest    |
| Iceland            | X ICE    | NASDAQOMX  | Reykjavik   |
| Iceland            | ISEC     | First North Iceland  | Reykjavik   |
| India              | XBAN     | Bangalore stock Exchange Ltd   | Bangalore   |
| India              | XCAL     | Calcutta Stock Exchange  | Calcutta    |
| India              | XDES     | Delhi Stock Exchange   | Delhi       |
| India              | XMDS     | Madras stock Exchange  | Madras      |
| India              | XBOM     | Mumbai Stock Exchange  | Mumbai      |
| India              | XNSE     | National Stock Exchange Of India                                     | Mumbai      |
| Indonesia          | XJNB     | Jakarta Negotiated Board   | Jakarta     |
| Iran               | IMEX     | Iran Mercantile Exchange   | Tehran      |
| Iran               | XTEH     | Tehran Stock Exchange  | Tehran      |
| Iraq               | XIQS     | Iraq Stock Exchange  | Baghdad     |
| Ireland            | XDUB     | Irish Stock Exchange   | Dublin      |
| Israel             | XTAE     | Tel Aviv stock Exchange  | Tel Aviv    |
| Italy              | MTAA     | Borsa Italiana SpA   | Milan       |
| Ivory Coast        | XBRV     | Bourse Regionale Des Valeurs Mobilieres                              | Abidjan     |
| Jamaica            | XJAM     | Jamaica Stock Exchange   | Kingston    |
| Japan              | XTAM     | Tokyo Aim  | Tokyo       |
| Japan              | XTFF     | Tokyo Financial Exchange   | Tokyo       |
| Japan              | XJAS     | Osaka Securities Exchange JASDAQ                                     | Osaka       |
| Japan              | XFKA     | Fukuoka Stock Exchange   | Fukuoka     |
| Japan              | XNGO     | Nagoya Stock Exchange  | Nagoya      |
| Japan              | XOSE     | Osaka Securities Exchange  | Osaka       |
| Japan              | XSAP     | Sapporo Stock Exchange   | Sapporo     |
| Japan              | JASR     | Japan Cross (Pts)  | Tokyo       |
| Japan              | XTKS     | Tokyo Stock Exchange   | Tokyo       |
| Jordan             | XAMM     | Amman Stock Exchange   | Amman       |
| Kazakhstan         | ETSC     | Ets Eurasian Trading System Commodity Exchange                       | Almaty      |
| Kazakhstan         | XKAZ     | Kazakhstan stock Exchange  | Alma-Ata    |
| Kenya              | XNAI     | Nairobi Stock Exchange   | Nairobi     |
| Korea, Republic of | XKOS     | Kosdaq   | Seoul       |
| Kuwait             | XKUW     | Kuwait Stock Exchange  | Kuwait      |
| Kyrgyzstan         | XKSE     | Kyrgyz Stock Exchange  | Bishkek     |
| Laos               | XLAO     | Lao Securities Exchange  | Lao         |
| Latvia             | FNLV     | First North Latvia   | Riga        |
| Latvia             | XRIS     | Riga Stock Exchange, The   | Riga        |

| Country                         | MIC Code | Exchange Name                                      | City         |
|---------------------------------|----------|--|--------------|
| Lebanon                         | XBEY     | Bourse De Beyrouth                                 | Beyrouth     |
| Libyan Arab Jamahiriya          | XLSM     | Libyan Stock Market                                | Tripoli      |
| Lithuania                       | BAPX     | Baltpool   | Vilnius      |
| Lithuania                       | FNLTL    | First North Lithuania                              | Vilnius      |
| Lithuania                       | NASB     | Nasdaq Omx Baltic                                  | Vilnius      |
| Lithuania                       | XUT      | National Stock Exchange Of Lithuania               | Vilnius      |
| Luxembourg                      | EMTF     | Euro Mtf   | Luxembourg   |
| Luxembourg                      | CCLX     | Centrale De Communications Luxembourg SA           | Luxembourg   |
| Luxembourg                      | XLUX     | Luxembourg Stock Exchange                          | Luxembourg   |
| Macedonia                       | XMAE     | Macedonian Stock Exchange                          | Skopje       |
| Madagascar                      | XMDG     | Marche Interbancaire Des Devises M.I.D.            | Antananarivo |
| Malawi                          | XMSW     | Malawi Stock Exchange                              | Blantyre     |
| Malaysia                        | MESQ     | Ace Market   | Kuala Lumpur |
| Malaysia                        | XRBM     | Ringgit Bond Market                                | Kuala Lumpur |
| Malaysia                        | XKLS     | Kuala Lumpur stock Exchange, The Kuala             | Kuala Lumpur |
| Malaysia                        | XLFX     | Labuan International Financial Exchange            | Labuan       |
| Maldives                        | MALX     | Maldives Stock Exchange                            | Male         |
| Matta                           | XMAL     | Matta Stock Exchange                               | Valletta     |
| Mauritius                       | GBOT     | Global Board Of Trade Ltd                          | Ebene        |
| Mauritius                       | XMAU     | Stock Exchange Of Mauritius Ltd                    | Port Louis   |
| Mexico                          | XMEX     | Bolsa Mexicana De Valores (Mexican stock Exchange) | Mexico       |
| Mexico                          | XEMD     | Mercado Mexicano De Derivados                      | Mexico       |
| Moldova, Republic of            | XMNX     | Montenegro Stock Exchange                          | Montenegro   |
| Morocco                         | XCAS     | Casablanca Stock Exchange                          | Casablanca   |
| Mozambique                      | XMAP     | Maputo Stock Exchange                              | Maputo       |
| Namibia                         | XNAM     | Namibian Stock Exchange                            | Windhoek     |
| Nepal                           | XNEP     | Nepal Stock Exchange                               | Kathmandu    |
| Netherlands                     | XAMS     | Euronext Amsterdam                                 | Amsterdam    |
| Netherlands                     | XEUE     | Euronext Eqf, Equities And Indices Derivatives     | Amsterdam    |
| New Zealand                     | XNZE     | New Zealand Stock Exchange                         | Wellington   |
| Nicaragua                       | XMAN     | Balsa De Valores De Nicaragua                      | Managua      |
| Nigeria                         | XNSA     | Nigerian Stock Exchange                            | Lagos        |
| Norway                          | XOSL     | Oslo Bors  | Oslo         |
| Oman                            | XMUS     | Muscat Securities Market                           | Muscat       |
| Pakistan                        | XISL     | Islamabad Stock Exchange                           | Islamabad    |
| Pakistan                        | XKAR     | Karachi Stock Exchange {Guarantee} Limited, The    | Karachi      |
| Pakistan                        | XLAH     | Lahore Stock Exchange                              | Lahore       |
| Palestinian Territory, Occupied | XPAE     | Palestine Exchange                                 | Nablus       |

| Country              | MIC Code | Exchange Name   | City            |
|----------------------|----------|---|-----------------|
| Panama               | XPTY     | Bolsa De Valores De Panama, S.A.                                    | Panama          |
| Papua New Guinea     | XPOM     | Port Moresby stock Exchange   | Port Moresby    |
| Paraguay             | XVPA     | Bolsa De Valores Y Productos De Asuncion Sa                         | Asuncion        |
| Peru                 | XUM      | Bolsa De Valores De Lima  | Lima            |
| Philippines          | PDEX     | Philippine Dealing And Exchange Corp                                | Makati City     |
| Philippines          | XPHS     | Philippine Stock Exchange, Inc.                                     | Pasig City      |
| Poland               | BOSP     | Bondspot Mtf  | Warszawa        |
| Poland               | XWAR     | Warsaw Stock Exchange   | Warsaw          |
| Portugal             | ALXL     | Nyse Euronext - Alternext Lisbon                                    | Lisbon          |
| Portugal             | ENXL     | Nyse Euronext - Easynext Lisbon                                     | Lisboa          |
| Portugal             | X LIS    | Euronext Lisboa   | Lisbon          |
| Portugal             | MDIP     | Medip   | Lisbon          |
| Portugal             | OPEX     | Pex-Private Exchange  | Lisbon          |
| Qatar                | DSMD     | Doha Securities Market  | Doha            |
| Romania              | XRAS     | Bucharest Stock Exchange - Rasdaq                                   | Bucharest       |
| Romania              | XBSE     | Bucharest Stock Exchange  | Bucharest       |
| Russia               | MISX     | Micex Stock Exchange  | Moscow          |
| Russia               | XMOS     | Moscow Central Stock Exchange                                       | Moscow          |
| Russia               | RTSX     | Rts Stock Exchange  | Moscow          |
| Russia               | XRUS     | Russian Exchange, The   | Moscow          |
| Russia               | NNCS     | Nizhny Novgorod Currency & Stock Exchange Close Joint Stock Company | Nizhny Novgorod |
| Russia               | XSIB     | Siberian Stock Exchange   | Novosibirsk     |
| Russia               | XPET     | St. Petersburg Stock Exchange                                       | St. Petersburg  |
| Rwanda               | ROTC     | Rwanda Otc Market   | Kigali          |
| Rwanda               | RSEX     | Rwanda Stock Exchange   | Kigali          |
| Saint Kitts & Nevis  | XECS     | Eastern Caribbean Securities Exchange                               | Basseterre      |
| Saudi Arabia         | XSAU     | Saudi Arabia stock Exchange   | Rijad           |
| Serbia (Republic of) | XBEL     | Belgrade Stock Exchange   | Belgrade        |
| Singapore            | XSES     | Singapore Exchange  | Singapore       |
| Slovakia             | XBRA     | Bratislava Stock Exchange, The                                      | Bratislava      |
| Slovenia             | XSOP     | Bsp Regional Energy Exchange -South Pool                            | Ljubljana       |
| South Africa         | ALTX     | Alternative Exchange  | Johannesburg    |
| South Africa         | XJSE     | JSE Securities Exchange, The  | Johannesburg    |
| Spain                | XMCE     | Mercado Continuo espanol  | Madrid          |
| Spain                | XBAR     | Barcelona Stock Exchange  | Barcelona       |
| Spain                | XMEF     | Meff Renta Fija   | Barcelona       |
| Spain                | XMRV     | Meff Renta Variable   | Barcelona       |
| Spain                | XBIL     | Bolsa De Valores De Bilbao  | Bilbao          |

| Country           | MIC Code | Exchange Name                              | City           |
|-------------------|----------|--|----------------|
| Spain             | XSRM     | Mercado De Futures De Aceite De Oliva, SA  | Jaen           |
| Spain             | XDRF     | Aiaf- Mercado De Renta Fija                | Madrid         |
| Spain             | XMAD     | Bolsa De Madrid                            | Madrid         |
| Spain             | XDPA     | Cade - Mercado De Deuda Publica Anotada    | Madrid         |
| Spain             | XVAL     | Bolsa De Valencia                          | Valencia       |
| Sri Lanka         | XCOL     | Colombo Stock Exchange                     | Colombo        |
| Sudan             | XKHA     | Khartoum Stock Exchange                    | Khartoum       |
| Swaziland         | XSWA     | Swaziland Stock Exchange                   | Mbabane        |
| Sweden            | FNSE     | First North Sweden                         | Stockholm      |
| Sweden            | XNGM     | Nordic Growth Market                       | Stockholm      |
| Sweden            | XSTO     | OMX Nordic Exchange                        | Stockholm      |
| Switzerland       | XVTX     | SIX Swiss Exchange                         | Zurich         |
| Switzerland       | XBRN     | Berne Stock Exchange                       | Be me          |
| Switzerland       | XSWX     | Swiss Exchange                             | Zurich         |
| Taiwan            | ROCO     | Gretai Securities Market                   | Taipei         |
| Taiwan            | XTAI     | Taiwan Stock Exchange                      | Taipei         |
| Tanzania          | XDAR     | Dar Es salaam Stock Exchange               | Dar Es salaam  |
| Thailand          | XBKK     | Stock Exchange Of Thailand                 | Bangkok        |
| Thailand          | XBKF     | Stock Exchange Of Thailand - Foreign Board | Bangkok        |
| Trinidad & Tobago | XTRN     | Trinidad And Tobago Stock Exchange         | Port Of Spain  |
| Tunisia           | XTUN     | Bourse Des Valeurs Mobilieres              | Tunis          |
| Turkey            | XIST     | Istanbul Stock Exchange                    | Istanbul       |
| UAE               | XDFM     | Dubai Financial Market                     | Dubai          |
| UAE               | DIFX     | Nasdaq Dubai                               | Dubai          |
| UAE               | XADS     | Abu Dhabi Securities Market                | Abu Dhabi      |
| Uganda            | XUGA     | Uganda Securities Exchange                 | Kampala        |
| Ukraine           | PFTS     | Ukrainian Stock Exchange                   | Kiev           |
| Ukraine           | EESE     | East European Stock Exchange               | Kiev           |
| Ukraine           | PFTQ     | Pfts Quote Driven                          | Kiev           |
| Ukraine           | SEPE     | Stock Exchange Perspectiva                 | Dnipropetrovsk |
| Ukraine           | UKEX     | Ukranian Exchange                          | Kiev           |
| Ukraine           | XUAX     | Ukrainian Stock Exchange                   | Kiev           |
| United Kingdom    | CHIX     | Chi-X Europe Limited.                      | London         |
| United Kingdom    | CHIY     | Chi-X Europe Limited - Chi-Clear           | London         |
| United Kingdom    | NURD     | Nasdaq Europe (Nuro) Dark                  | London         |
| United Kingdom    | NURO     | Nasdaq Omx Europe                          | London         |
| United Kingdom    | XPLU     | Plus Markets                               | London         |
| United Kingdom    | XSMP     | Smartpool                                  | London         |
| United Kingdom    | XSWB     | Swx Swiss Block                            | London         |
| United Kingdom    | BTEE     | Brokertec Europe Ltd.                      | London         |
| United Kingdom    | EMTS     | Euromts                                    | London         |

| Country        | MIC Code | Exchange Name   | City             |
|----------------|----------|---|------------------|
| United Kingdom | GEMX     | Gemma (Gilt Edged Market Makers' Association)                   | London           |
| United Kingdom | XCOR     | Iama Trading Service  | London           |
| United Kingdom | XLON     | London Stock Exchange, The                                      | London           |
| United Kingdom | TREU     | Tradeweb Europe Limited   | London           |
| Uruguay        | BVUR     | Balsa Electronics De Valores Del Uruguay                        | Montevideo       |
| Uruguay        | XMNT     | Bolsa De Valores De Montevideo                                  | Montevideo       |
| USA            | ARCX     | Nyse Arca   | New Yom          |
| USA            | IEPA     | Intercontinental Exchange                                       | Atlanta          |
| USA            | XBOS     | Boston Stock Exchange   | Boston           |
| USA            | XCBT     | Chicago Board Of Trade  | Chicago          |
| USA            | XCHI     | Chicago Stock Exchange, Inc.                                    | Chicago          |
| USA            | X CIS    | Cincinnati Stock Exchange                                       | Chicago          |
| USA            | XOCH     | Onechicago, Llc.  | Chicago          |
| USA            | THRD     | The Third Market Corporation                                    | Chicago          |
| USA            | BTEC     | Brokertec Usa, Llc  | Jersey City      |
| USA            | TRWB     | Tradeweb Llc  | Jersey City      |
| USA            | XKBT     | Kansas City Board Of Trade                                      | Kansas City      |
| USA            | XASE     | American Stock Exchange   | New York         |
| USA            | XISX     | International Securities Exchange, Lie.                         | New York         |
| USA            | XNAS     | Nasdaq  | New York         |
| USA            | XNMS     | Nasdaq/Nms (National Market System)                             | New York         |
| USA            | XNYS     | New York Stock Exchange, Inc.                                   | New York         |
| USA            | PINX     | Pink Sheets Lie (Nqb)   | New York         |
| USA            | ICEL     | The Island Ecn Ltd.   | New York         |
| USA            | XPBT     | Philadelphia Board Of Trade                                     | Philadelphia     |
| USA            | XPHL     | Philadelphia Stock Exchange                                     | Philadelphia     |
| USA            | XOTC     | Otc Bulletin Board  | Washington       |
| USA            | XPOR     | Portal  | Washington       |
| Uzbekistan     | XSTE     | Republican Stock Exchange                                       | Tashkent         |
| Venezuela      | BVCA     | Boise Electronics De Valores De Caracas                         | Caracas          |
| Venezuela      | XCAR     | Caracas Stock Exchange  | Caracas          |
| Viet Nam       | HSTC     | Hanoi Securities Trading Center                                 | Hanoi            |
| Viet Nam       | XSTC     | Vietnam Stock Exchange  | Ho Chi Minh City |
| Vietnam        | XHNX     | Hanoi Stock Exchange (Unlisted Public Company Trading Platform) | Hanoi            |
| Zambia         | XLUS     | Lusaka Stock Exchange   | Lusaka           |
| Zimbabwe       | XZIM     | Zimbabwe Stock Exchange   | Harare           |

## Product Specification Revision History

Release 4.3 June 2013

Release 4.2, November 2011

Release 4.1, October 2011

Release 4.0, June 2011

Release 3.0, January 2008

Release 2.0, April 2007

Release 1.0, January 2005 - Initial Product Specification

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