



*London*  
**STOCK EXCHANGE**

SERVICE & TECHNICAL DESCRIPTION · JUNE 2008

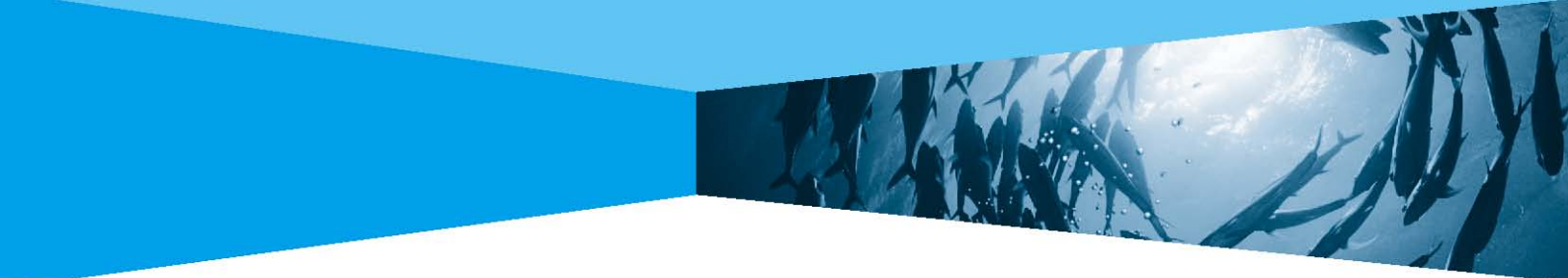
# FTSE Indices Dissemination on Infolect





## Document History

June 2008      First issue published on website



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## 1. Document Scope

The purpose of this document is to provide customers with an overview of the dissemination of FTSE Indices on Infolect, the Exchange's high speed, market data platform.

This document details the introduction of the new service and its technical configuration.

This publication constitutes an amendment to the Technical Specifications published by the London Stock Exchange Group Plc.

## 2. Introduction to the Service

The London Stock Exchange is committed to constantly reviewing ways in which to enrich and add value to its range of products and services. It is for this reason that the Exchange has partnered with FTSE to publish their intra-day snapshot indices over Infolect.

Infolect will be enhanced to support the dissemination of a diverse and exhaustive range of indices currently calculated by FTSE. This will allow customers subscribing to the service to benefit from Infolect's reliability and low latency, as well the associated synergies of receiving both market and indices data from a single source, over a single connection.

A full list of the published indices to be supported on Infolect and the snapshot interval is included in Appendix A. The snapshot interval is dependent on how often FTSE update these index changes. The service will publish snapshot information from 05:00 to 20.30 each day. The Exchange will establish a connection with FTSE prior to this time and any messages received from this point be held and disseminated from 05:00. Those indices that have a start or end time outside of these hours will only be published for the period that falls within the service times.

## 3. Technical Overview

To support the introduction of this new service Infolect will be enhanced with two new Service Channels, using two new message types.

### 3.1. Service Channels

Service Name	Service Channel
FTSE Indices UK	F01
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE SERVICE CHANNELS:</i>	
<b>5IP</b> AA	Idle Poll
<b>5ON</b> AB	Index Status
<b>5OU</b> AB	Index Value



Service Name	Service Channel
FTSE Indices International	F02
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE SERVICE CHANNELS:</i>	
<b>5IP</b> AA	Idle Poll
<b>5ON</b> AB	Index Status
<b>5OU</b> AB	Index Value

Please refer to Appendix B for the full range of multicast addresses across all of the Exchange’s testing and production environments.

To ease the configuration and implementation for customers a single set of channels will be available for both Service and Performance Channel customers.

### 3.2. Message Types

#### 3.2.1. 5ON AB Index Status Message

The 5ON AB Index Status message will be sent to subscribers when the status of an index changes, e.g. Open or Close. The table below outlines each of the fields published in the message.

Field Name	Offset	Length	Format
Index Identifier	37	50	A
Index Status	87	15	A
Time of Change	102	6	N
<b>Total Length</b>	<b>108 bytes</b>		

#### 3.2.2. 5OU AB Index Value Message

The 5OU AB Index Value message details the value of an index at a specified time and the difference of this value from the previous day's closing value

Field Name	Offset	Length	Format
Index Identifier	37	50	A
Index Value	87	23	N
Index Differential	110	23	S
Time of Index Value	133	6	N
Index Exceptional Status Indicator	139	1	A
<b>Total Length</b>	<b>140 bytes</b>		

## 4. Customer Testing Services

The Customer Development Service (CDS), Conformance and High Volume Service (HVS) environments will be updated with the new Service Channels.

Testing for the new service will be inline with the Exchange's standard accreditation policy. This states that Independent Software Vendors (ISVs) and customers with in-house software applications service will be required to complete a mandatory Information conformance test before subscribing to the service.

Customers using third party accredited software will be required to complete a High Volumes (HVS) test.

Before receiving the service in production customers will be required to complete a Live Connectivity (LCON) test.

## 5. Timescales and Cost

Any customer who wishes to subscribe to the service should contact FTSE to ensure the appropriate license agreement is in place. Once FTSE have confirmed to the Exchange that this stage is complete the service will be configured on the relevant enablements. Subject to available bandwidth there is no additional charge from the Exchange for taking advantage of this service.

As per today, customers are required to report their FTSE terminal numbers to FTSE via the London Stock Exchange's Infolect Terminal Returns application.

The new Service Channels are scheduled to be added to the Customer Development Service on Monday 7 July 2008 and the Conformance and HVS environments on Monday 14 July. The new channels will be introduced to Production environment towards the end of Q3 2008.

These dates are indicative and will be confirmed by service announcement.



## 6. Customer Support

Please find below the contact details of the teams who will be supporting the introduction of this new service.

Further information will also be available from the Infolect section of the Exchange's website at [www.londonstockexchange.com/infolect](http://www.londonstockexchange.com/infolect).

### 6.1. Client Implementation Team (CIT)

The Client Implementation Team are responsible for co-ordinating the implementation of a customer's Infolect enablements and may be contacted via:

- Client Implementation Team - Tel: +44 (0)20 7797 3232, STX 33232
- E-mail Client Implementation Team at: [clientimplementation@londonstockexchange.com](mailto:clientimplementation@londonstockexchange.com)

Requests for new and changes to existing enablements should be submitted via the Exchange's eContracts online order system.

### 6.2. Client Technology Group

The Client Technology Group will provide technical support during the implementation of this new service via:

- The Technical Information Desk on +44 (0)207 797 3939, STX 33939
- The Client Technology Group Email via [CTGroup@londonstockexchange.com](mailto:CTGroup@londonstockexchange.com)

Technical queries may also be raised directly through your Technical Account Manager.

### 6.3. Primary Account Manager

Business related queries should be directed either to your Primary Account Manager or the Market Data and Connectivity Team on +44 (0)207 797 4444, or [marketdata@londonstockexchange.com](mailto:marketdata@londonstockexchange.com).

### 6.4. FTSE

For more information on the products and services available from FTSE or for specific FTSE related technical queries please contact:

Asha Bijlani  
Account Manager  
Global Distribution  
[asha.bijlani@ftse.com](mailto:asha.bijlani@ftse.com)  
+1 212 641 6160

Krishna Downer  
Global Distribution  
[krisha.downer@ftse.com](mailto:krisha.downer@ftse.com)  
+ 44 (0)20 7866 1879

Jason Gooch  
IT Service Delivery Manager  
[jason.gooch@ftse.com](mailto:jason.gooch@ftse.com)  
+44 (0)20 7866 8980

## Appendix A

Appendix A provides details of the indices available on Infolect and the start and end times published by FTSE. These are subject to confirmation.

### F01 – UK Indices

Index	Code	Start time	End time	Pub Interval
FTSE 100 Index	UKX	08:00:00	16:30:00	15 sec
FTSE 100 Expiry Index	UKXSP	08:00:00	10:10:00	15 sec
FTSE 250 Index	MCX	08:00:00	16:30:00	15 sec
FTSE 250 Expiry Index	MCXSP	08:00:00	10:10:00	15 sec
FTSE 250 Ex Investment Companies Index	MCIX	08:00:00	16:30:00	60 sec
FTSE 350 Index	NMX	08:00:00	16:30:00	60 sec
FTSE 350 Ex Investment Companies	NMIX	08:00:00	16:30:00	60 sec
FTSE 350 Index Higher Yield	HIX	08:00:00	16:30:00	60 sec
FTSE 350 Index Lower Yield	LIX	08:00:00	16:30:00	60 sec
FTSE All-Share Index	ASX	08:00:00	16:30:00	60 sec
FTSE All-Share Ex Investment Companies Index	ASXX	08:00:00	16:30:00	60 sec
FTSE Fledgling Index	NSX	08:00:00	16:30:00	60 sec
FTSE Fledgling Ex Investment Companies Index	NSIX	08:00:00	16:30:00	60 sec
FTSE AIM All-Share Index	AXX	08:00:00	16:30:00	60 sec
FTSE AIM UK 50 Index	AIM5	08:00:00	16:30:00	60 sec
FTSE AIM 100 Index	AIM1	08:00:00	16:30:00	60 sec
FTSE techMARK All-Share Index	TASX	08:00:00	16:30:00	60 sec
FTSE techMARK 100 Index	T1X	08:00:00	16:30:00	60 sec
FTSE techMARK Mediscience Index	TMS1	08:00:00	16:30:00	60 sec
FTSE 350 Aerospace & Defence Index	NMX2710	08:00:00	16:30:00	60 sec
FTSE 350 Automobiles & Parts Index	NMX3350	08:00:00	16:30:00	60 sec
FTSE 350 Banks Index	NMX8350	08:00:00	16:30:00	60 sec
FTSE 350 Beverages Index	NMX3530	08:00:00	16:30:00	60 sec
FTSE 350 Chemicals Index	NMX1350	08:00:00	16:30:00	60 sec
FTSE 350 Construction & Building Materials Index	NMX2350	08:00:00	16:30:00	60 sec
FTSE 350 Electricity Index	NMX7530	08:00:00	16:30:00	60 sec
FTSE 350 Electronic & Electrical Equipment Index	NMX2730	08:00:00	16:30:00	60 sec
FTSE 350 Equity Investment Instruments Index	NMX8980	08:00:00	16:30:00	60 sec
FTSE 350 Fixed Line Telecommunications Index	NMX6530	08:00:00	16:30:00	60 sec
FTSE 350 Food & Drug Retailers Index	NMX5330	08:00:00	16:30:00	60 sec
FTSE 350 Food Producers Index	NMX3570	08:00:00	16:30:00	60 sec
FTSE 350 Forestry & Paper Index	NMX1730	08:00:00	16:30:00	60 sec
FTSE 350 Gas Water & Multiutilities Index	NMX7570	08:00:00	16:30:00	60 sec
FTSE 350 General Financial Index	NMX8770	08:00:00	16:30:00	60 sec
FTSE 350 General Industrials Index	NMX2720	08:00:00	16:30:00	60 sec
FTSE 350 General Retailers Index	NMX5370	08:00:00	16:30:00	60 sec
FTSE 350 Health Care Equipment & Services Index	NMX4530	08:00:00	16:30:00	60 sec
FTSE 350 Household Goods Index	NMX3720	08:00:00	16:30:00	60 sec





Index	Code	Start time	End time	Pub Interval
FTSE 350 Industrial Engineering Index	NMX2750	08:00:00	16:30:00	60 sec
FTSE 350 Industrial Metals Index	NMX1750	08:00:00	16:30:00	60 sec
FTSE 350 Industrial Transportation Index	NMX2770	08:00:00	16:30:00	60 sec
FTSE 350 Technology Hardware & Equipment Index	NMX9570	08:00:00	16:30:00	60 sec
FTSE 350 Leisure Goods Index	NMX3740	08:00:00	16:30:00	60 sec
FTSE 350 Life Assurance Index	NMX8570	08:00:00	16:30:00	60 sec
FTSE 350 Media Index	NMX5550	08:00:00	16:30:00	60 sec
FTSE 350 Mining Index	NMX1770	08:00:00	16:30:00	60 sec
FTSE 350 Mobile Telecommunications Index	NMX6570	08:00:00	16:30:00	60 sec
FTSE 350 Nonlife Insurance Index	NMX8530	08:00:00	16:30:00	60 sec
FTSE 350 Oil & Gas Producers Index	NMX0530	08:00:00	16:30:00	60 sec
FTSE 350 Oil Equipment Services & Distribution	NMX0570	08:00:00	16:30:00	60 sec
FTSE 350 Personal Goods Index	NMX3760	08:00:00	16:30:00	60 sec
FTSE 350 Pharmaceuticals & Biotechnology Index	NMX4570	08:00:00	16:30:00	60 sec
FTSE 350 Real Estate Index	NMX8730	08:00:00	16:30:00	60 sec
FTSE 350 Software & Computer Services Index	NMX9530	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Automobiles & Parts Index	UB3300	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Banks Index	UB8300	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Basic Resources Index	UB1700	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Chemicals Index	UB1300	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Construction & Materials Index	UB2300	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Financial Services Index	UB8700	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Food & Beverage Index	UB3500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Health Care Index	UB4500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Industrial Goods and Services	UB2700	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Insurance Index	UB8500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Insurance Index	UB8500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Media Index	UB5500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Oil & Gas Index	UB0500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Personal & Household Goods Index	UB3700	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Retail Index	UB5300	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Technology Index	UB9500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Telecommunications Index	UB6500	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Travel & Leisure Index	UB5700	08:00:00	16:30:00	60 sec
FTSE 350 Supersector Utilities Index	UB7500	08:00:00	16:30:00	60 sec
FTSE 350 Support Services Index	NMX2790	08:00:00	16:30:00	60 sec
FTSE 350 Technology Hardware & Equipment Index	NMX9570	08:00:00	16:30:00	60 sec
FTSE 350 Tobacco Index	NMX3780	08:00:00	16:30:00	60 sec
FTSE 350 Travel & Leisure Index	NMX5750	08:00:00	16:30:00	60 sec
FTSE Euro 100 Index	EB1X	08:00:00	16:30:00	15 sec

## F02 – International Indices

Index	Code	Start time	End time	Pub Interval
FTSE4Good Europe 50 Index	4EU5	08:00:00	16:30:00	60 sec
FTSE4Good Europe Index	4GEU	08:00:00	16:30:00	60 sec
FTSE4Good Environmental Leaders Europe 40 Index	4ELE	08:00:00	16:30:00	15 sec
FTSE4Good Global Index	4GGL	01:00:00	20:10:00	60 sec
FTSE4Good Global 100 Index	4GL1	01:00:00	20:10:00	60 sec
FTSE4Good UK Index	4GUK	08:00:00	16:30:00	60 sec
FTSE4Good USA Index	4GUS	14:30:00	21:10:00	60 sec
FTSE4Good UK 50 Index	4UK5	08:00:00	16:30:00	60 sec
FTSE4Good USA 100 Index	4US1	14:30:00	21:10:00	60 sec
FTSE Greece Index	WIGRC	09:15:00	15:00:00	15 sec
FTSE Nordic 30 Index	N30X	08:00:00	16:30:00	60 sec
FTSE/MV Exchanges Index	MV1X	01:00:00	20:10:00	60 sec
FTSE Med 100 Index	MED1	07:45:00	16:00:00	60 sec
FTSEurofirst 300 Index	E3X	08:00:00	16:30:00	15 sec
FTSEurofirst 100 Index	EFC1	08:00:00	16:30:00	15 sec
FTSEurofirst 80 Index	EF80	08:00:00	16:30:00	15 sec
FTSEurofirst 300 Eurozone Index	3EC	08:00:00	16:30:00	15 sec
FTSEurofirst 300 Ex Eurozone Index	3XEC	08:00:00	16:30:00	15 sec
FTSEurofirst 300 Ex UK Index	3XUK	08:00:00	16:30:00	15 sec
FTSEurofirst 300 Aerospace & Defence Index	E3X2710	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Automobiles Index	E3X3350	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Banks Index	E3X8350	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Basic Materials Index	E3X1000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Beverages Index	E3X3530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Chemicals Index	E3X1350	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Construction & Materials Index	E3X2350	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Consumer Goods Index	E3X3000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Consumer Services Index	E3X5000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Electricity Index	E3X7530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Electronic & Electrical Equipment Index	E3X2730	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Equity Investment Instruments Index	E3X8980	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Financials Index	E3X8000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Fixed Line Telecommunications Index	E3X6530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Food & Drug Retailers Index	E3X5330	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Food Producers Index	E3X3570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Forestry & Paper Index	E3X1730	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Gas Water & Multiutilities Index	E3X7570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 General Industrials Index	E3X2720	08:00:00	16:30:00	60 sec
FTSEurofirst 300 General Retailers Index	E3X5370	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Oil & Gas Index	E3X0001	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Oil & Gas Producers Index	E3X0530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 General Retailers Index	E3X5370	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Health Care Index	E3X4000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Health Care Equipment & Services Index	E3X4530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Household Goods Index	E3X3720	08:00:00	16:30:00	60 sec



Index	Code	Start time	End time	Pub Interval
FTSEurofirst 300 Industrial Engineering Index	E3X2750	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Industrial Metals Index	E3X1750	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Industrial Transportation Index	E3X2770	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Industrials Index	E3X2000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Leisure Goods Index	E3X3740	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Life Insurance/Assurance Index	E3X8570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Media & Photography Index	E3X5550	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Mining Index	E3X1770	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Mobile Telecommunications Index	E3X6570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Nonlife Insurance Index	E3X8530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Oil & Gas Index	E3X0001	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Oil & Gas Producers Index	E3X0530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Oil Equipment Services & Distribution Index	E3X0570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Personal Goods Index	E3x3760	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Personal Goods Index	E3X3760	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Pharmaceuticals & Biotechnology Index	E3X4570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Real Estate Index	E3X8730	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Software & Computer Services Index	E3X9530	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Support Services Index	E3X2790	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Technology Index	E3X9000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Technology Hardware & Equipment	E3X9570	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Telecommunications Index	E3X6000	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Tobacco Index	E3X3780	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Travel & Leisure Index	E3X5750	08:00:00	16:30:00	60 sec
FTSEurofirst 300 Utilities Index	E3X7000	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Automobiles & Parts Index	E3300	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Banks Index	E8300	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Basic Resources Index	E1700	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Chemicals Index	E1300	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Construction & Materials	E2300	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Financial Services Index	E8700	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Food & Beverage Index	E3500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Health Care Index	E4500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Industrial Goods & Services	E2700	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Insurance Index	E8500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Media Index	E5500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Oil & Gas Index	E0500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Personal & Household	E3700	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Retail Index	E5300	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Technology Index	E9500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Telecommunication Index	E6500	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Travel & Leisure Index	E5700	08:00:00	16:30:00	60 sec
FTSEurofirst Supersector Utilities Index	E7500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Automobiles & Parts	EB3300	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Banks Index	EB8300	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Basic Resources	EB1700	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Chemicals Index	EB1300	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Construction & Materials	EB2300	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Financial Services	EB8700	08:00:00	16:30:00	60 sec



Index	Code	Start time	End time	Pub Interval
FTSEurofirst Euro Supersector Food & Beverage	EB3500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Health Care Index	EB4500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Industrial Goods	EB2700	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Insurance Index	EB8500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Media Index	EB5500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Oil & Gas Index	EB0500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Personal & Household	EB3700	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Retail Index	EB5300	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Technology Index	EB9500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Telecommunications	EB6500	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Travel & Leisure	EB5700	08:00:00	16:30:00	60 sec
FTSEurofirst Euro Supersector Utilities Index	EB7500	08:00:00	16:30:00	60 sec
FTSE Eurotop 100 Index	E1X	08:00:00	16:30:00	15 sec
FTSE EuroMid Index	MOX	08:00:00	16:30:00	15 sec
FTSE EuroMid Ex UK Index	MOXU	08:00:00	16:30:00	15 sec
FTSE EuroMid Eurozone Index	MOEB	08:00:00	16:30:00	15 sec
FTSE All-World Index	AW01	23:30:00	20:10:00	60 sec
FTSE All-World Advanced Emerging Index	AA07	23:30:00	20:10:00	60 sec
FTSE All-World Emerging Index	AE01	01:00:00	20:10:00	60 sec
FTSE All-World All Emerging Index	AG01	23:30:00	20:10:00	60 sec
FTSE All-World Emerging Asia Pacific Index	AG03	23:30:00	14:29:45	60 sec
FTSE All-World Emerging Latin America Index	AG02	13:30:00	20:10:00	60 sec
FTSE All-World Developed Index	AD01	23:30:00	20:10:00	60 sec
FTSE All-World Developed Europe Index	AD06	08:00:00	16:30:00	60 sec
FTSE All-World Developed Europe ex UK Index	AD07	08:00:00	16:30:00	60 sec
FTSE All-World Developed ex Japan Index	AD05	23:30:00	20:10:00	60 sec
FTSE All-World Developed ex North America Index	AD03	00:30:00	16:30:00	60 sec
FTSE All-World Index Developed ex UK Index	AD04	23:30:00	20:10:00	60 sec
FTSE All-World Index Developed ex USA Index	AD02	23:30:00	20:10:00	60 sec
FTSE All-World Europe Index	AW11	08:00:00	16:30:00	60 sec
FTSE All-World Europe ex Eurozone Index	AW13	08:00:00	16:30:00	60 sec
FTSE All-World Index Europe ex UK Index	AW12	08:00:00	16:30:00	60 sec
FTSE All-World Eurozone Index	AW14	08:00:00	16:30:00	60 sec
FTSE All-World Asia Pacific Index	AW06	23:30:00	14:29:45	60 sec
FTSE All-World Asia Pacific ex Jap Ind Pak OZ & NZ	AW09	23:30:00	11:30:00	60 sec
FTSE All-World Asia Pacific ex Japan Index	AW07	23:30:00	14:29:45	60 sec
FTSE All-World Asia Pacific ex Japan India & Pakistan (LM)	AW08	23:30:00	11:30:00	60 sec
FTSE All-World Greater China Index	AW10	23:30:00	10:14:45	60 sec
FTSE All-World ex Japan Index	AW04	23:30:00	20:10:00	60 sec
FTSE All-World ex South Africa Index	AW05	23:30:00	20:10:00	60 sec
FTSE All-World ex UK Index	AW03	23:30:00	20:10:00	60 sec
FTSE All-World ex US Index	AW02	23:30:00	20:10:00	60 sec
FTSE Global 100 Index	MN1X	01:00:00	20:10:00	60 sec
FTSE Global LMS Index	G01	23:30:00	20:10:00	60 sec
FTSE Global LMS ex US Index	G02	23:30:00	20:10:00	60 sec
FTSE All-Cap Global ex UK Index	G03	23:30:00	20:10:00	60 sec
FTSE All-Cap Global ex Japan Index	G04	23:30:00	20:10:00	60 sec
FTSE All-Cap Global ex South Africa Index	G05	23:30:00	20:10:00	60 sec
FTSE All-Cap Developed Index	AD08	23:30:00	20:10:00	60 sec



Index	Code	Start time	End time	Pub Interval
FTSE All-Cap Developed ex Japan Index	AD19	23:30:00	20:10:00	60 sec
FTSE All-Cap Developed ex North America Index	AD17	00:30:00	16:30:00	60 sec
FTSE All-Cap Developed ex UK Index	AD18	23:30:00	20:10:00	60 sec
FTSE All-Cap Developed ex US Index	AD09	23:30:00	20:10:00	60 sec
FTSE All-Cap Developed Europe ex UK Index	AD20	08:00:00	16:30:00	60 sec
FTSE All-Cap Developed Europe Index	AD13	08:00:00	16:30:00	60 sec
FTSE All-Cap Europe Index	G11	08:00:00	16:30:00	60 sec
FTSE All-Cap Europe ex UK Index	G12	08:00:00	16:30:00	60 sec
FTSE All-Cap Europe ex Eurobloc Index	G13	08:00:00	16:30:00	60 sec
FTSE All-Cap Eurobloc Index	G14	08:00:00	16:30:00	60 sec
FTSE All-Cap Asia Pacific Index	G06	23:30:00	13:29:45	60 sec
FTSE All-Cap Asia Pacific ex Japan Index	G07	23:30:00	13:29:45	60 sec
FTSE All-Cap Asia Pacific ex JP ex IN ex PK Index	G08	23:30:00	10:59:45	60 sec
FTSE All-Cap Asia Pacific ex JP ex IN ex PK ex AU	G09	23:30:00	10:59:45	60 sec
FTSE All-Cap Greater China Index	G10	23:30:00	09:14:45	60 sec
FTSE All-Cap Emerging Index	AG14	23:30:00	20:10:00	60 sec
FTSE All-Cap Emerging Asia Pacific Index	AG16	23:30:00	13:29:45	60 sec
FTSE All-Cap Emerging Latin America Index	AG15	13:30:00	20:10:00	60 sec
FTSE Small Cap Global Index	SS01	23:30:00	20:10:00	60 sec
FTSE Small Cap Global ex Eurozone Index	SS06	23:30:00	20:10:00	60 sec
FTSE Small Cap Global ex Japan Index	SS05	23:30:00	20:10:00	60 sec
FTSE Small Cap Global ex UK Index	SS04	23:30:00	20:10:00	60 sec
FTSE Small Cap Global ex US Index	SS03	23:30:00	20:10:00	60 sec
FTSE Small Cap Global Developed Index	SS02	23:30:00	20:10:00	60 sec
FTSE Small Cap Developed ex US Index	SD11	23:30:00	20:10:00	60 sec
FTSE Small Cap Developed ex North America	SD12	00:30:00	16:30:00	60 sec
FTSE Small Cap Developed Europe Index	SD13	08:00:00	16:30:00	60 sec
FTSE Small Cap Developed Europe ex UK Index	SD14	08:00:00	16:30:00	60 sec
FTSE Small Cap Europe Index	SS07	08:00:00	16:30:00	60 sec
FTSE Small Cap Europe ex UK Index	SS08	08:00:00	16:30:00	60 sec
FTSE Small Cap Asia Pacific Index	SS09	23:30:00	13:29:45	60 sec
FTSE Small Cap Asia Pacific ex Japan Index	SD10	23:30:00	13:29:45	60 sec
FTSE World Index	WI01	23:30:00	20:10:00	60 sec
FTSE World Europe ex Eurozone Index	WI03	08:00:00	16:30:00	60 sec
FTSE World Index ex South Africa Index	WI02	23:30:00	20:10:00	60 sec
FTSE eTX All-Share Index	TX0A	08:00:00	16:30:00	60 sec
FTSE eTX 50 Index	TX5	08:00:00	16:30:00	15 sec
FTSE eTX Euro 50 Index	TX5E	08:00:00	16:30:00	15 sec
FTSE eTX Computer Hardware	TX0A9572	08:00:00	16:30:00	60 sec
FTSE eTX Computer Services Index	TX0A9533	08:00:00	16:30:00	60 sec
FTSE eTX Electronic Office Equipment Index	TX0A9574	08:00:00	16:30:00	60 sec
FTSE eTX Telecommunications Equipment	TX0A9578	08:00:00	16:30:00	60 sec
FTSE eTX Innovation Index	TX0I	08:00:00	16:30:00	60 sec
FTSE eTX Internet Index	TX0A9535	08:00:00	16:30:00	60 sec
FTSE eTX Semiconductors Index	TX0A9576	08:00:00	16:30:00	60 sec
FTSE eTX Software Index	TX0A9537	08:00:00	16:30:00	60 sec
FTSE Global Autos (EUR) Index	FTSEGE31	01:00:00	20:10:00	60 sec
FTSE Global Autos (GBP) Index	FTSEGS31	01:00:00	20:10:00	60 sec
FTSE Global Autos (JPY) Index	FTSEGY31	01:00:00	20:10:00	60 sec



Index	Code	Start time	End time	Pub Interval
FTSE Global Autos (USD) Index	GD31	01:00:00	20:10:00	60 sec
FTSE Global Banks (EUR) Index	FTSEGE81	01:00:00	20:10:00	60 sec
FTSE Global Banks (GBP) Index	FTSEGS81	01:00:00	20:10:00	60 sec
FTSE Global Banks (JPY) Index	FTSEGY81	01:00:00	20:10:00	60 sec
FTSE Global Banks (USD) Index	GD81	01:00:00	20:10:00	60 sec
FTSE Global Basic Industries (EUR) Index	FTSEGE10	01:00:00	20:10:00	60 sec
FTSE Global Basic Industries (GBP) Index	FTSEGS10	01:00:00	20:10:00	60 sec
FTSE Global Basic Industries (USD) Index	GD10	01:00:00	20:10:00	60 sec
FTSE Global Cyclical (EUR) Index	FTSEGE50	01:00:00	20:10:00	60 sec
FTSE Global Cyclical (GBP) Index	FTSEGS50	01:00:00	20:10:00	60 sec
FTSE Global Cyclical (JPY) Index	FTSEGY50	01:00:00	20:10:00	60 sec
FTSE Global Cyclical (USD) Index	GD50	01:00:00	20:10:00	60 sec
FTSE Global Energy (EUR) Index	FTSEGE07	01:00:00	20:10:00	60 sec
FTSE Global Energy (GBP) Index	FTSEGS07	01:00:00	20:10:00	60 sec
FTSE Global Energy (JPY) Index	FTSEGY07	01:00:00	20:10:00	60 sec
FTSE Global Energy (USD) Index	GD07	01:00:00	20:10:00	60 sec
FTSE Global Financials (EUR) Index	FTSEGE80	01:00:00	20:10:00	60 sec
FTSE Global Financials (GBP) Index	FTSEGS80	01:00:00	20:10:00	60 sec
FTSE Global Financials (JPY) Index	FTSEGY80	01:00:00	20:10:00	60 sec
FTSE Global Financials (USD) Index	GD80	01:00:00	20:10:00	60 sec
FTSE Global General Industrials (EUR) Index	FTSEGE20	01:00:00	20:10:00	60 sec
FTSE Global General Industrials (GBP) Index	FTSEGS20	01:00:00	20:10:00	60 sec
FTSE Global General Industrials (JPY) Index	FTSEGY20	01:00:00	20:10:00	60 sec
FTSE Global General Industrials (USD) Index	GD20	01:00:00	20:10:00	60 sec
FTSE Global Media (EUR) Index	FTSEGE54	01:00:00	20:10:00	60 sec
FTSE Global Media (GBP) Index	FTSEGS54	01:00:00	20:10:00	60 sec
FTSE Global Media (JPY) Index	FTSEGY54	01:00:00	20:10:00	60 sec
FTSE Global Media (USD) Index	GD54	01:00:00	20:10:00	60 sec
FTSE Global Non Cyclical (EUR) Index	FTSEGE40	01:00:00	20:10:00	60 sec
FTSE Global Non Cyclical (GBP) Index	FTSEGS40	01:00:00	20:10:00	60 sec
FTSE Global Non Cyclical (JPY) Index	FTSEGY40	01:00:00	20:10:00	60 sec
FTSE Global Non Cyclical (USD) Index	GD40	01:00:00	20:10:00	60 sec
FTSE Global Pharmaceuticals (EUR) Index	FTSEGE48	01:00:00	20:10:00	60 sec
FTSE Global Pharmaceuticals (GBP) Index	FTSEGS48	01:00:00	20:10:00	60 sec
FTSE Global Pharmaceuticals (JPY) Index	FTSEGY48	01:00:00	20:10:00	60 sec
FTSE Global Pharmaceuticals (USD) Index	GD48	01:00:00	20:10:00	60 sec
FTSE Global Technology (EUR) Index	FTSEGE90	01:00:00	20:10:00	60 sec
FTSE Global Technology (GBP) Index	FTSEGS90	01:00:00	20:10:00	60 sec
FTSE Global Technology (JPY) Index	FTSEGY90	01:00:00	20:10:00	60 sec
FTSE Global Technology (USD) Index	GD90	01:00:00	20:10:00	60 sec
FTSE Global Telecoms (EUR) Index	FTSEGE67	01:00:00	20:10:00	60 sec
FTSE Global Telecoms (GBP) Index	FTSEGS67	01:00:00	20:10:00	60 sec
FTSE Global Telecoms (JPY) Index	FTSEGY67	01:00:00	20:10:00	60 sec
FTSE Global Telecoms (USD) Index	GD67	01:00:00	20:10:00	60 sec
FTSE Global Utilities (EUR) Index	FTSEGE70	01:00:00	20:10:00	60 sec
FTSE Global Utilities (GBP) Index	FTSEGS70	01:00:00	20:10:00	60 sec
FTSE Global Utilities (JPY) Index	FTSEGY70	01:00:00	20:10:00	60 sec
FTSE Global Utilities (USD) Index	GD70	01:00:00	20:10:00	60 sec
FTSE CNBC Global 300 Index	FCNBCG	01:00:00	20:10:00	15 sec



Index	Code	Start time	End time	Pub Interval
FTSE CNBC Global 300 Index - Oil & Gas	FCNBCG0500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Chemicals	FCNBCG1300	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Basic Resources	FCNBCG1700	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Construction and Material	FCNBCG2300	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Industrial Goods & services	FCNBCG2700	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Automobiles & Parts	FCNBCG3300	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Food & Beverage	FCNBCG3500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Personal & Household	FCNBCG3700	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Health Care	FCNBCG4500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Retail	FCNBCG5300	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Media	FCNBCG5500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Travel & Leisure	FCNBCG5700	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index -Telecommunications	FCNBCG6500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Utilities	FCNBCG7500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Banks	FCNBCG8300	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Insurance	FCNBCG8500	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Financial Services	FCNBCG8700	01:00:00	20:10:00	15 sec
FTSE CNBC Global 300 Index - Technology	FCNBCG9500	01:00:00	20:10:00	15 sec
FTSE BRIC 50 Index	FBRIC	01:00:00	20:10:00	15 sec
FTSE Coast Kuwait 40 GPC	GPCST001	06:00:00	09:45:00	60 sec
FTSE Eastern Europe Index CNBC	CNBC	07:30:00	16:30:00	60 sec
FTSE IDFC India Infrastructure 30 Index	FII3	04:25:00	10:02:00	60 sec
FTSE CSAG Terror-Free All World ex-US Index	FTFA	23:30:00	20:10:00	15 sec
FTSE CSAG Terror-Free Developed ex-US Index	FTFD	23:30:00	20:10:00	15 sec
FTSE CSAG Terror-Free Emerging Index	FTFE	23:30:00	20:10:00	15 sec

## Appendix B

Appendix B details the multicast addresses for each service.

Please note that the messages will be available for re-requesting on Infolect from both the London Stock Exchange and Borsa Italiana Interactive Services.

### Production

Channel	Multicast Address	Port
F01	233.115.135.59	60000
F02	233.115.135.60	60000

Source Address: 10.1.44.115

### CDS

Channel	Multicast Address	Port
F01	233.115.135.123	61000
F02	233.115.135.124	61000

Source Address: 10.5.51.115

### Conformance

Channel	Multicast Address	Port
F01	233.115.135.187	62000
F02	233.115.135.188	62000

Source Address: 10.5.51.115

### HVS

Channel	Multicast Address	Port
F01	233.115.135.251	63000
F02	233.115.135.252	63000

Source Address: 10.5.51.225



## Appendix C

Appendix C provides a description of field values in the 5OU AB and 5ON AB messages.

### Index Differential

Indicates the difference between the present value of the quoted index and the previous day's closing value and whether the value is higher or lower than the previous day's quoted value. The first byte of this field will be + or – depending upon whether the value is higher or lower respectively.

Length:	23
Format:	Signed Numeric
ISO Standard:	N/A
Precision:	2

### Index Exceptional Status Indicator

This field is used in cases where the calculation of an index has been held during the business day due to unusual circumstances. The index will not be updated until the status changes.

Length:	1
Format:	Alphanumeric
ISO Standard:	N/A

This field can have the following values:

'H'	Held
'C'	Closed
^	Index is neither held or closed

### Index Identifier

This code is used to identify an index. When an index is calculated in alternate currencies this code identifies the currency used.

Length:	50
Format:	Alphanumeric
ISO Standard:	N/A

## Index Status

This field gives the status of an index.

Length:	15
Format:	Alphanumeric
ISO Standard:	N/A

This field can have the following values:

PRE_MQP	Before Mandatory Quote Period, quotes not firm
LIVE	Market is live, index is normal
PART	Part of the constituent market is not live
INDICATIVE	Index is indicative
HELD	A data link has failed or index has exceeded parameters
POST_MQP	After Mandatory Quote Period
CLOSE	Official Closing Index

**Note:** The Exchange may amend these values at anytime following one month's prior written notice

## Index Value

This field contains the latest value of the index as calculated by the Index Processor.

Length:	23
Format:	Numeric
ISO Standard:	N/A
Precision:	2

## Time of Change

This field contains the time at which the status of an index changed on the Index Processor. The format of this field is HHMMSS. Only the hours and minutes will be formatted, the seconds will be set to "00".

Length:	6
Format:	Numeric
ISO Standard:	ISO 8601



### Time of Index Value

This field contains the time at which the index is calculated on the Index Processor. The format of this field is HHMMSS. Only the hours and minutes will be formatted, the seconds will be set to "00".

Length:	6
Format:	Numeric
ISO Standard:	ISO 8601