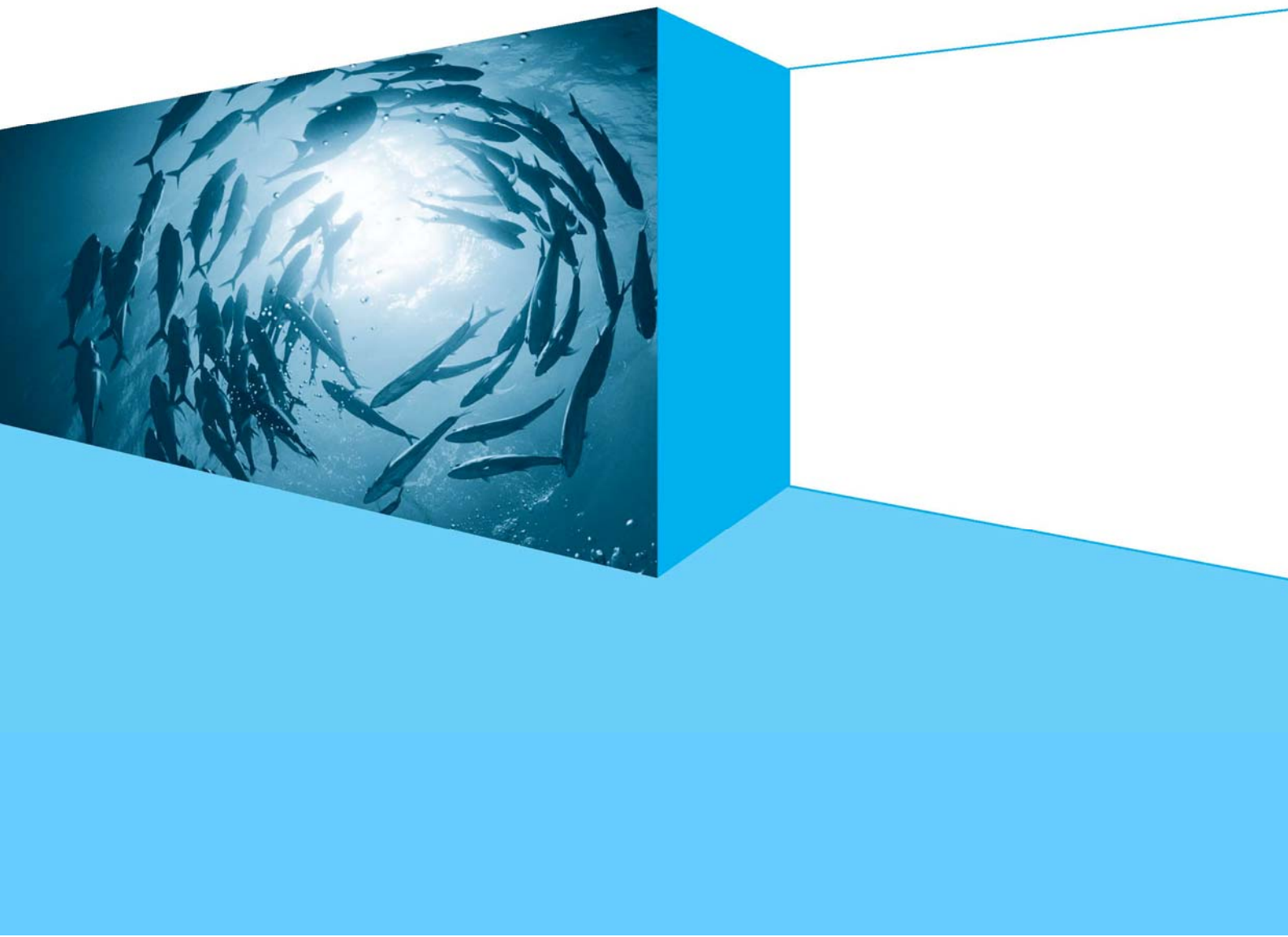




London
STOCK EXCHANGE

SERVICE AND TECHNICAL DESCRIPTION - DECEMBER 2007

Performance Channels





Document History

December 2007 First issue published on website



1. Document Scope

The purpose of this document is to provide customers with an overview of the new performance focused delivery method for real-time market data via Infolect™ - Performance Channels. These are an enhanced set of Service Channels, which reduce the latency introduced by throttling.

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

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

2. Introduction of Performance Channels

Performance Channels offer a reduced latency, high speed delivery mechanism, which increases the throttles that are necessary on Service Channels to provide a managed service.

The Exchange's current Service Channel throttling policy protects customers' connections and systems from high volumes of data overflowing their Extranex connection. This can mean that during extremely busy periods Service Channels can be subject to relatively minor latency as the high volume of messages being disseminated are managed and shaped in order to protect customer systems and networks from these high data spikes.

Although these high data spikes in Infolect real-time data are relatively infrequent, they can result during times of high trading activity. Performance Channels increase these throttles substantially, effectively removing them, by increasing the available bandwidth for the data to ensure it is disseminated as it arrives and "unshaped". Performance Channels will provide data at lower latency levels than Service Channels during periods of high trading activity and peaks or spikes in data output. During normal periods of activity there is no bias in delivery between one service and the other.

Due to the increased message rates and intra-second spikes an Extranex 100mb connection is required to receive the Performance Channels service.

A Performance Channels pilot service, comprising of P03 - UK Level 2, is currently available free of charge to customers on an Extranex 10mb line. At the full launch of the Performance Channels service the pilot will cease and will be unavailable to those customers who have not subscribed to the full production service.

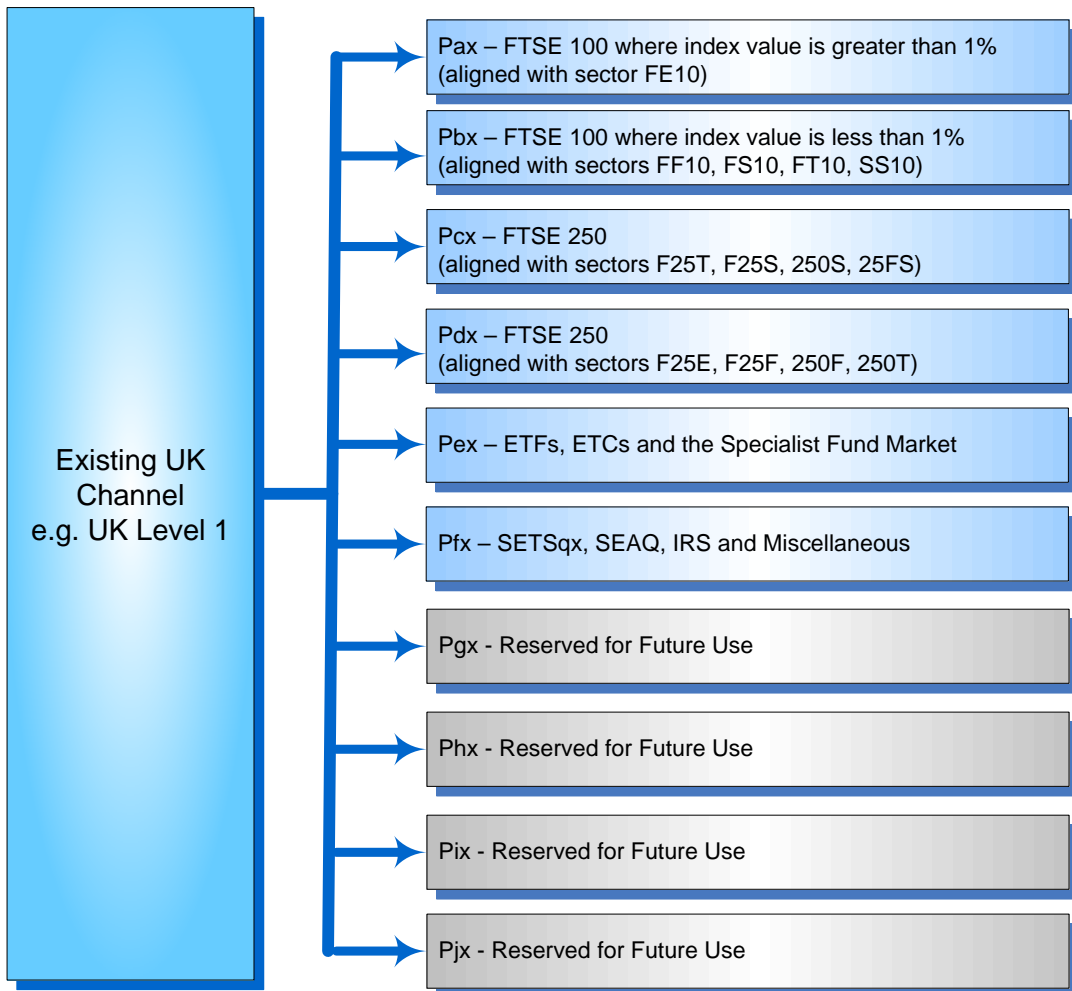
3. Performance Channel Structure

Performance Channels will retain the same structure as Service Channels with the exception of the UK Data channels. The structure of the UK Level 1, Level 1 Plus and Level 2 channels will be enhanced to more accurately represent the liquidity within the market, which increases the efficiency of market data delivery and optimises the way in which messages are distributed across channels, providing a further performance benefit.

Each data channel, e.g. UK Level 1, will be divided into a subset of 10 multicast groups, each covering a specific portion of the UK market. At launch six of these will disseminate UK market data and four will be reserved for future use, disseminating only idle polls (5IP). Performance Channel customers will be required to subscribe to all of the channels within each level of data, e.g. Pa1 to Pj1. This will ensure the Exchange can introduce changes to the structure with minimal impact to market or extensive lead times.

The diagram below outlines the new data channels and the specific area of the UK market each will support. Details of the multicast IP addresses for each environment are provided in Appendix A.

Appendix B provides a full list of the message types that may be disseminated down each channel.





4. Implementation Approach

Performance Channels will be introduced in to production using a staged approach:

- Ahead of the live date the multicast groups for the new channels will be configured on Infolect with only idle polls being disseminated. This will allow customers to confirm that the multicast groups are configured correctly within their firewalls and applications.
- A mandatory dress rehearsal weekend will be held before go-live where the full list of message types, as outlined in Appendix B, will be published on Infolect. This will provide customers with the opportunity to confirm their systems are processing the new channels. The Exchange will monitor customers' re-requesting and perform live connectivity activities. At the end of the weekend the message content will be backed out and the channels will revert back to idle polls.
- On the weekend of go-live the Exchange will once again configure the full range of message types in preparation for the service launch on the Monday morning. Customer participation in the weekend is optional.

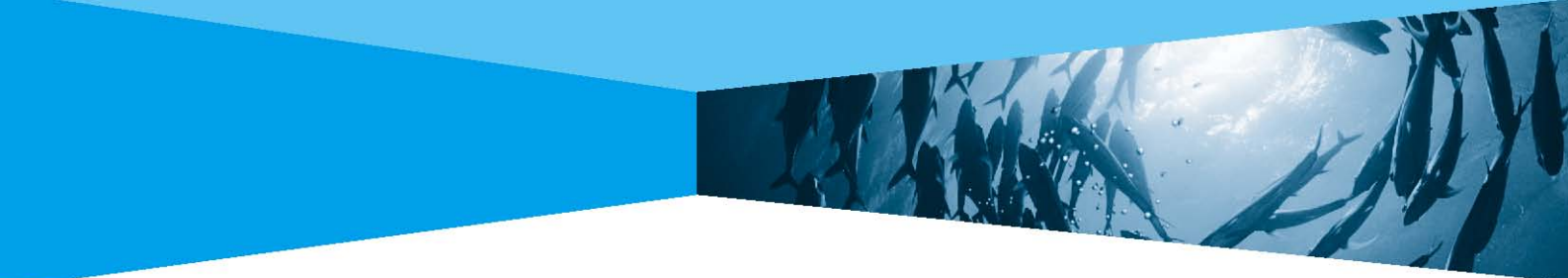
The mandatory dress rehearsal weekend is currently scheduled for Saturday 8 March 2008. Further details on the specific schedule and activities for the day will be issued by the Exchange closer to the time.

5. Customer Testing Services

Performance Channels will be available on the Exchange's full range of Customer Testing Services including the Customer Development Service (CDS), Conformance and HVS. As part of the implementation of Performance Channels the Exchange is dividing the Conformance and HVS environments, as such each will have their own range of multicast addresses and a separate Interactive Request Interface, which are detailed in Appendix A. Access to both the Conformance and HVS environments will be managed through the same enablement.

Customers will be required to pass a mandatory Performance Channels HVS test for each instance of software subscribing to Performance Channels in production. The first instance of each of these tests will be provided free of charge by the Exchange. Conformance testing will be in line with the Exchange's standard accreditation policy. Customers should discuss their testing requirements and arrange testing through their Technical Account Manager.

The message rates for the Performance Channels HVS test will be considerably higher than the current Service Channels test, 40mb and 7mb respectively. The Exchange recommends customers review the technical specification of their test environment to ensure the increased message rates can be processed without issue. Appendix C shows the estimated output of the new Performance Channels HVS test. The Exchange also recommends customers ensure their systems are configured correctly with the interface to the Extranex router configured to 100/Full Duplex and any application logging functionality switched off.



Users of the Customer Development Service (CDS) will be able to receive both Performance Channels and Service Channels on an Extranet 10mb connection.

6. Timescales and Cost

Performance Channels will cost £12,000 per annum per customer and are available to order now through the Exchange's eContracts service or through your Primary Account Manager. Customers will only need to order the level of data to receive the full set of multicast groups within that data level - e.g. UK Level 1 - Pa1 to Paj.

The Customer Development Service, Conformance and High Volume Services are currently scheduled to be available from January 2008. The production Performance Channels service is currently scheduled for April 2008, subject to market readiness.

All dates will be communicated via Service Announcement.

7. Customer Support

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

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

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

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

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



Primary Account Manager

Business related queries should be directed to your Primary Account Manager.

Further information will also be available from the Infolect section of our corporate website at www.londonstockexchange.com/infolect.

Appendix A - Multicast IP Address Ranges

Appendix A provides full details of the multicast IP address and port numbers for all Performance Channels over Infolect. In summary the ranges are:

Environment	Multicast Address Range	Port	Exchange Address
Live Production	224.4.0.4 - 224.4.0.50	60500	10.1.144.115
Customer Development Service (CDS)	224.4.0.65 - 224.4.0.111	61500	10.5.54.115
Conformance	224.4.0.129 - 224.4.0.175	62500	10.5.54.115
High Volume Service (HVS)	224.4.0.193 - 224.4.0.239	63500	10.5.54.225

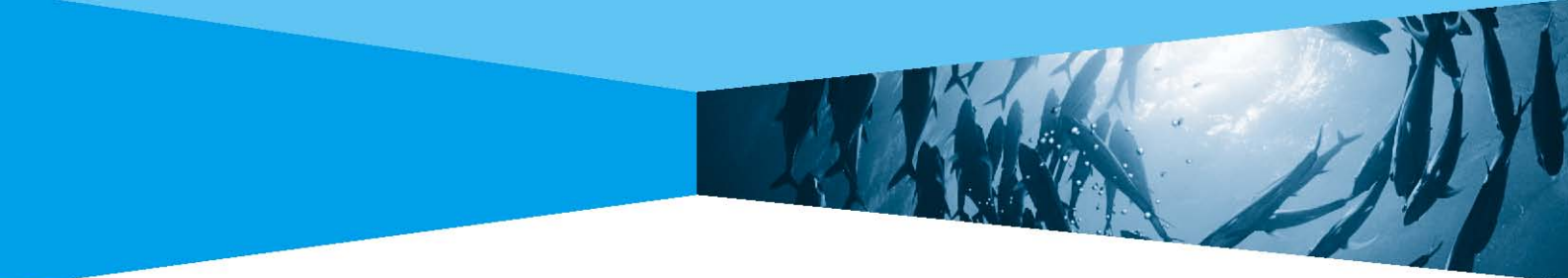
Full details of all addresses & ports allocated to each Performance Channel are provided overleaf.

Performance Channels will share the same Interactive Request Service as Service Channels. The table below summarises the destination IP address and port number for each environment. The HVS environment will have a separate configuration to conformance following the division of the environments, indicated in bold.

Environment	Destination Address	Port
Live Production	10.1.22.100	62200
Customer Development Service (CDS)	10.5.7.110	52200
Conformance	10.5.6.110	52800
High Volume Service (HVS)	10.5.8.110	52900

Production

Service Code	Description	Multicast Address
Pa1	SETS: FTSE 100 where index value is greater than 1%	224.4.0.4
Pb1	SETS: FTSE 100 where index value is less than 1%	224.4.0.5
Pc1	SETS: FTSE 250 1	224.4.0.6
Pd1	SETS: FTSE 250 2	224.4.0.7
Pe1	SFM, including ETFs and ETCs	224.4.0.8
Pf1	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.9
Pg1	Reserved for future use	224.4.0.10
Ph1	Reserved for future use	224.4.0.11
Pi1	Reserved for future use	224.4.0.12
Pj1	Reserved for future use	224.4.0.13
Pa2	SETS: FTSE 100 where index value is greater than 1%	224.4.0.14
Pb2	SETS: FTSE 100 where index value is less than 1%	224.4.0.15
Pc2	SETS: FTSE 250 1	224.4.0.16
Pd2	SETS: FTSE 250 2	224.4.0.17
Pe2	SFM, including ETFs and ETCs	224.4.0.18
Pf2	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.19
Pg2	Reserved for future use	224.4.0.20
Ph2	Reserved for future use	224.4.0.21
Pi2	Reserved for future use	224.4.0.22
Pj2	Reserved for future use	224.4.0.23
Pa3	SETS: FTSE 100 where index value is greater than 1%	224.4.0.24
Pb3	SETS: FTSE 100 where index value is less than 1%	224.4.0.25
Pc3	SETS: FTSE 250 1	224.4.0.26
Pd3	SETS: FTSE 250 2	224.4.0.27
Pe3	SFM, including ETFs and ETCs	224.4.0.28
Pf3	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.29
Pg3	Reserved for future use	224.4.0.30



Service Code	Description	Multicast Address
Ph3	Reserved for future use	224.4.0.31
Pi3	Reserved for future use	224.4.0.32
Pj3	Reserved for future use	224.4.0.33
P04	UK Reference Data	224.4.0.34
P05	International Level 1	224.4.0.35
P06	International Level 1 Plus	224.4.0.36
P07	International Level 2	224.4.0.37
P08	International Reference Data	224.4.0.38
P09	European Level 1	224.4.0.39
P10	European Level 1 Plus	224.4.0.40
P11	European Level 2	224.4.0.41
P12	European Reference Data	224.4.0.42
P13	Covered Warrants Level 1	224.4.0.43
P14	Covered Warrants Level 1 Plus	224.4.0.44
P15	Covered Warrants Level 2	224.4.0.45
P16	Market Status Indicators	224.4.0.46
P17	Market Reference Data	224.4.0.47
P18	RNS News	224.4.0.48
P19	DOL (Full)	224.4.0.49
P20	DOL (Changes)	224.4.0.50

Customer Development Service (CDS)

Service Code	Description	Multicast Address
Pa1	SETS: FTSE 100 where index value is greater than 1%	224.4.0.65
Pb1	SETS: FTSE 100 where index value is less than 1%	224.4.0.66
Pc1	SETS: FTSE 250 1	224.4.0.67
Pd1	SETS: FTSE 250 2	224.4.0.68
Pe1	SFM, including ETFs and ETCs	224.4.0.69
Pf1	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.70
Pg1	Reserved for future use	224.4.0.71
Ph1	Reserved for future use	224.4.0.72
Pi1	Reserved for future use	224.4.0.73
Pj1	Reserved for future use	224.4.0.74
Pa2	SETS: FTSE 100 where index value is greater than 1%	224.4.0.75
Pb2	SETS: FTSE 100 where index value is less than 1%	224.4.0.76
Pc2	SETS: FTSE 250 1	224.4.0.77
Pd2	SETS: FTSE 250 2	224.4.0.78
Pe2	SFM, including ETFs and ETCs	224.4.0.79
Pf2	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.80
Pg2	Reserved for future use	224.4.0.81
Ph2	Reserved for future use	224.4.0.82
Pi2	Reserved for future use	224.4.0.83
Pj2	Reserved for future use	224.4.0.84
Pa3	SETS: FTSE 100 where index value is greater than 1%	224.4.0.85
Pb3	SETS: FTSE 100 where index value is less than 1%	224.4.0.86
Pc3	SETS: FTSE 250 1	224.4.0.87
Pd3	SETS: FTSE 250 2	224.4.0.88
Pe3	SFM, including ETFs and ETCs	224.4.0.89
Pf3	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.90
Pg3	Reserved for future use	224.4.0.91



Service Code	Description	Multicast Address
Ph3	Reserved for future use	224.4.0.92
Pi3	Reserved for future use	224.4.0.93
Pj3	Reserved for future use	224.4.0.94
P04	UK Reference Data	224.4.0.95
P05	International Level 1	224.4.0.96
P06	International Level 1 Plus	224.4.0.97
P07	International Level 2	224.4.0.98
P08	International Reference Data	224.4.0.99
P09	European Level 1	224.4.0.100
P10	European Level 1 Plus	224.4.0.101
P11	European Level 2	224.4.0.102
P12	European Reference Data	224.4.0.103
P13	Covered Warrants Level 1	224.4.0.104
P14	Covered Warrants Level 1 Plus	224.4.0.105
P15	Covered Warrants Level 2	224.4.0.106
P16	Market Status Indicators	224.4.0.107
P17	Market Reference Data	224.4.0.108
P18	RNS News	224.4.0.109
P19	DOL (Full)	224.4.0.110
P20	DOL (Changes)	224.4.0.111

Conformance

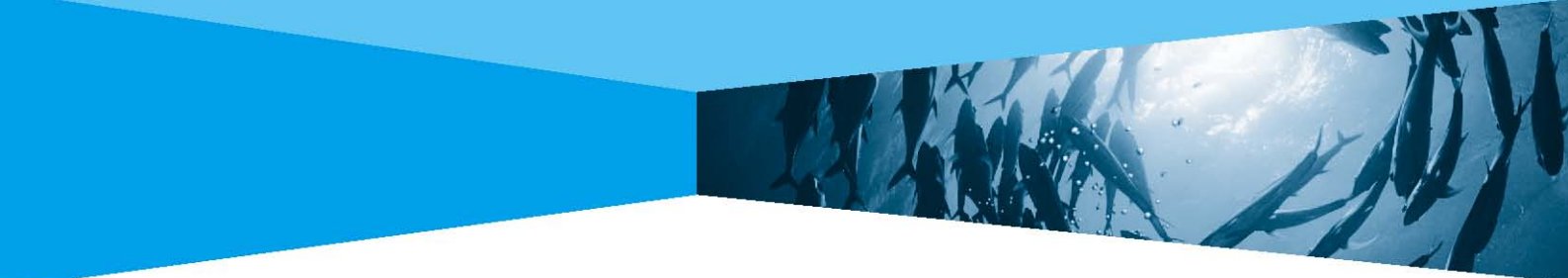
Service Code	Description	Multicast Address
Pa1	SETS: FTSE 100 where index value is greater than 1%	224.4.0.129
Pb1	SETS: FTSE 100 where index value is less than 1%	224.4.0.130
Pc1	SETS: FTSE 250 1	224.4.0.131
Pd1	SETS: FTSE 250 2	224.4.0.132
Pe1	SFM, including ETFs and ETCs	224.4.0.133
Pf1	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.134
Pg1	Reserved for future use	224.4.0.135
Ph1	Reserved for future use	224.4.0.136
Pi1	Reserved for future use	224.4.0.137
Pj1	Reserved for future use	224.4.0.138
Pa2	SETS: FTSE 100 where index value is greater than 1%	224.4.0.139
Pb2	SETS: FTSE 100 where index value is less than 1%	224.4.0.140
Pc2	SETS: FTSE 250 1	224.4.0.141
Pd2	SETS: FTSE 250 2	224.4.0.142
Pe2	SFM, including ETFs and ETCs	224.4.0.143
Pf2	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.144
Pg2	Reserved for future use	224.4.0.145
Ph2	Reserved for future use	224.4.0.146
Pi2	Reserved for future use	224.4.0.147
Pj2	Reserved for future use	224.4.0.148
Pa3	SETS: FTSE 100 where index value is greater than 1%	224.4.0.149
Pb3	SETS: FTSE 100 where index value is less than 1%	224.4.0.150
Pc3	SETS: FTSE 250 1	224.4.0.151
Pd3	SETS: FTSE 250 2	224.4.0.152
Pe3	SFM, including ETFs and ETCs	224.4.0.153
Pf3	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.154
Pg3	Reserved for future use	224.4.0.155



Service Code	Description	Multicast Address
Ph3	Reserved for future use	224.4.0.156
Pi3	Reserved for future use	224.4.0.157
Pj3	Reserved for future use	224.4.0.158
P04	UK Reference Data	224.4.0.159
P05	International Level 1	224.4.0.160
P06	International Level 1 Plus	224.4.0.161
P07	International Level 2	224.4.0.162
P08	International Reference Data	224.4.0.163
P09	European Level 1	224.4.0.164
P10	European Level 1 Plus	224.4.0.165
P11	European Level 2	224.4.0.166
P12	European Reference Data	224.4.0.167
P13	Covered Warrants Level 1	224.4.0.168
P14	Covered Warrants Level 1 Plus	224.4.0.169
P15	Covered Warrants Level 2	224.4.0.170
P16	Market Status Indicators	224.4.0.171
P17	Market Reference Data	224.4.0.172
P18	RNS News	224.4.0.173
P19	DOL (Full)	224.4.0.174
P20	DOL (Changes)	224.4.0.175

High Volume Service (HVS)

Service Code	Description	Multicast Address
Pa1	SETS: FTSE 100 where index value is greater than 1%	224.4.0.193
Pb1	SETS: FTSE 100 where index value is less than 1%	224.4.0.194
Pc1	SETS: FTSE 250 1	224.4.0.195
Pd1	SETS: FTSE 250 2	224.4.0.196
Pe1	SFM, including ETFs and ETCs	224.4.0.197
Pf1	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.198
Pg1	Reserved for future use	224.4.0.199
Ph1	Reserved for future use	224.4.0.200
Pi1	Reserved for future use	224.4.0.201
Pj1	Reserved for future use	224.4.0.202
Pa2	SETS: FTSE 100 where index value is greater than 1%	224.4.0.203
Pb2	SETS: FTSE 100 where index value is less than 1%	224.4.0.204
Pc2	SETS: FTSE 250 1	224.4.0.205
Pd2	SETS: FTSE 250 2	224.4.0.206
Pe2	SFM, including ETFs and ETCs	224.4.0.207
Pf2	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.208
Pg2	Reserved for future use	224.4.0.209
Ph2	Reserved for future use	224.4.0.210
Pi2	Reserved for future use	224.4.0.211
Pj2	Reserved for future use	224.4.0.212
Pa3	SETS: FTSE 100 where index value is greater than 1%	224.4.0.213
Pb3	SETS: FTSE 100 where index value is less than 1%	224.4.0.214
Pc3	SETS: FTSE 250 1	224.4.0.215
Pd3	SETS: FTSE 250 2	224.4.0.216
Pe3	SFM, including ETFs and ETCs	224.4.0.217
Pf3	SETS, SETSqx, SEAQ, IRS and Miscellaneous	224.4.0.218
Pg3	Reserved for future use	224.4.0.219



Service Code	Description	Multicast Address
Ph3	Reserved for future use	224.4.0.220
Pi3	Reserved for future use	224.4.0.221
Pj3	Reserved for future use	224.4.0.222
P04	UK Reference Data	224.4.0.223
P05	International Level 1	224.4.0.224
P06	International Level 1 Plus	224.4.0.225
P07	International Level 2	224.4.0.226
P08	International Reference Data	224.4.0.227
P09	European Level 1	224.4.0.228
P10	European Level 1 Plus	224.4.0.229
P11	European Level 2	224.4.0.230
P12	European Reference Data	224.4.0.231
P13	Covered Warrants Level 1	224.4.0.232
P14	Covered Warrants Level 1 Plus	224.4.0.233
P15	Covered Warrants Level 2	224.4.0.234
P16	Market Status Indicators	224.4.0.235
P17	Market Reference Data	224.4.0.236
P18	RNS News	224.4.0.237
P19	DOL (Full)	224.4.0.238
P20	DOL (Changes)	224.4.0.239

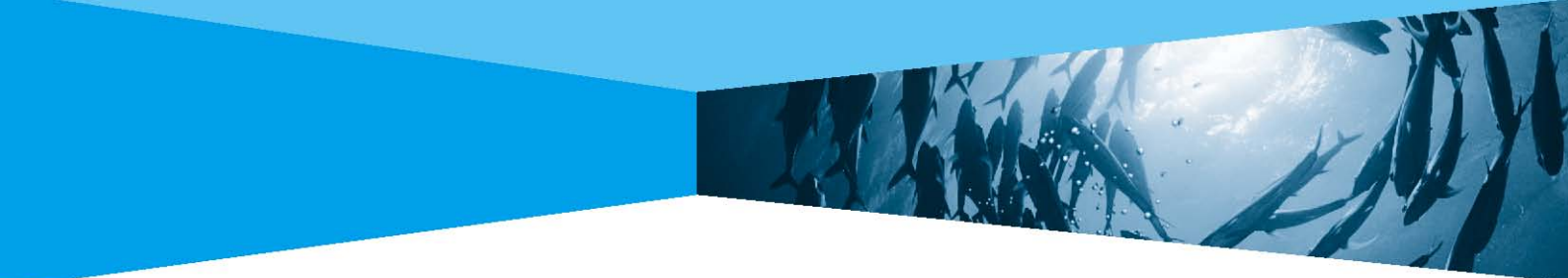
Appendix B - Performance Channel Content

Appendix B provides an overview of each of the Performance Channels that will be available on Infolect and the messages disseminated on each channel.

Service Name	Performance Channel(s)
UK Level 1	Pa1, Pb1, Pc1, Pd1, Pe1, Pf1, Pg1, Ph1, Pi1, Pj1
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5DV	Cumulative Number and Volume of Trades
5EM	Ex Marker Status
5IP	Idle Poll
5MH	Mid High/Low
5OZ	Trade Report
5SE	Best Price
5SG	Announcement Message
5TH	Trade High/Low
5VO	VWAP from Trades
5VW	VWAP from Automatic Trades
5UP	Uncrossing Price

Service Name	Performance Channel(s)
UK Level 1 Plus	Pa2, Pb2, Pc2, Pd2, Pe2, Pf1, Pg2, Ph2, Pi2, Pj2
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5AB	Return Measures
5AF	Alphas/Betas
5AP	Average Cumulative Volumes
5BY	Buy/Sell Percentage
5FM	Money Flow
5IP	Idle Poll
5MV	Market Share top 5
5PP	Market Share Ratio and Market Capitalisation
5SF	Enhanced Best price
5TW	Time Weighted Average Spread
5UD	Uncrossing Price and volume

Service Name	Performance Channel(s)
UK Level 2	Pa3, Pb3, Pc3, Pd3, Pe3, Pf3, Pg3, Ph3, Pi3, Pj3
<p><i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i></p> <p>5CT Tradable Instrument Control 5EM Ex-Marker Status 5IP Idle Poll 5MN Member Role in Instrument 5MK Market Status Information 5OE Order Deletion/Expiry/Fully Matched 5OL Temporary Period for tradable Instrument/Currency 5OM Period for Market Sector 5OO Order Details 5OV Tradable Instrument/Currency Period Change 5OW Sector Period Change 5QT Quote Update 5SG Announcement Message 5SN Quote Close 5SX Uncrossing Completed 5UP Uncrossing Price</p>	



Service Name	Performance Channel(s)
UK Reference Data	P04

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5EM** Ex Marker Status
- 5ER** Equity Background Data
- 5IP** Idle Poll
- 5IS** Instrument Trading Data
- 5MN** Member Role in Instrument
- 5MS** Member in Segment
- 5OM** Period for Market Sector
- 5PR** Opening Price
- 5SD** Segment Description
- 5SG** Announcement Message
- 5SK** Closing Price
- 5SS** Sector Description
- 5TM** Tick Size Matrix for Segment / Currency
- 5TY** Trade Type for Segment
- 5VI** Settlement Venue for Tradable Instrument

Service Name	Performance Channel(s)
International Level 1	P05

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5DV** Cumulative Number and Volume of Trades
- 5EM** Ex Marker Status
- 5IP** Idle Poll
- 5MH** Mid High/Low
- 5OZ** Trade Report
- 5SE** Best Price
- 5SG** Announcement Message
- 5TH** Trade High/Low
- 5VO** VWAP from Trades
- 5VW** VWAP from automatic trades
- 5UP** Uncrossing Price



Service Name	Performance Channel(s)
International Level 1 Plus	P06

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5BY** Buy/Sell Percentage
- 5FM** Money Flow
- 5IP** Idle Poll
- 5SF** Enhanced Best price
- 5TW** Time Weighted Average Spread
- 5UD** Uncrossing Price and volume

Service Name	Performance Channel(s)
International Level 2	P07

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5CT** Tradable Instrument Control
- 5EM** Ex Marker Status
- 5IP** Idle Poll
- 5MN** Member Role in Instrument
- 5MK** Market Status Information
- 5OE** Order Deletion/Expiry/Fully Matched
- 5OL** Temporary Period for tradable Instrument/Currency
- 5OM** Period for Market Sector
- 5OO** Order Details
- 5OV** Tradable Instrument/Currency Period Change
- 5OW** Sector Period Change
- 5QT** Quote Update
- 5SG** Announcement Message
- 5SN** Quote Close
- 5SX** Uncrossing Completed
- 5UP** Uncrossing Price

Service Name	Performance Channel(s)
International Level Reference Data	P08

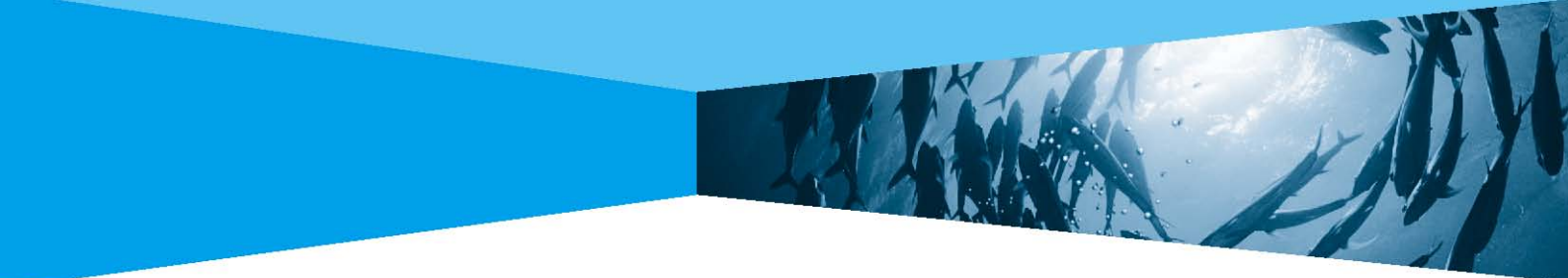
MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5EM** Ex Marker Status
- 5ER** Equity Background Data
- 5IP** Idle Poll
- 5IS** Instrument Trading Data
- 5MN** Member Role in Instrument
- 5MS** Member in Segment
- 5OM** Period for Market Sector
- 5PR** Opening Price
- 5SD** Segment Description
- 5SG** Announcement Message
- 5SK** Closing Price
- 5SS** Sector Description
- 5TM** Tick Size Matrix for Segment / Currency
- 5TY** Trade Type for Segment
- 5VI** Settlement Venue for Tradable Instrument

Service Name	Performance Channel(s)
European Level 1	P09

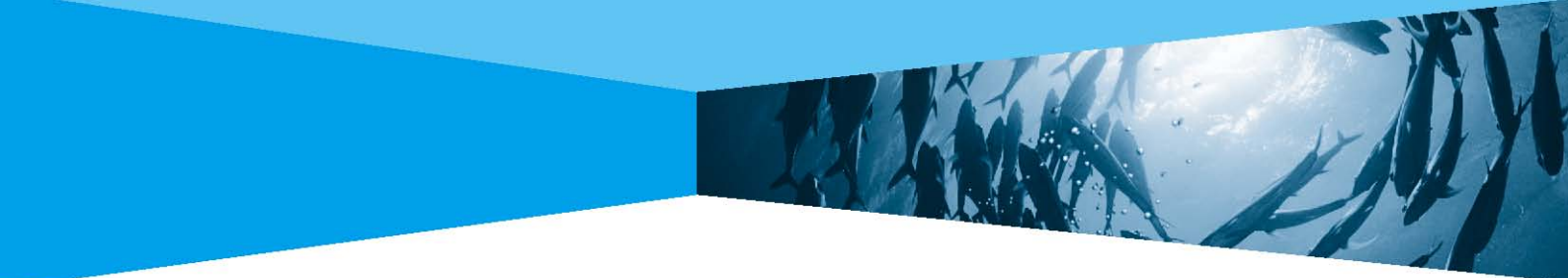
MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5DV** Cumulative Number and Volume of Trades
- 5EM** Ex Marker Status
- 5IP** Idle Poll
- 5MH** Mid High/Low
- 5OZ** Trade Report
- 5SE** Best Price
- 5SG** Announcement Message
- 5TH** Trade High/Low
- 5VO** VWAP from Trades
- 5VW** VWAP from automatic trades
- 5UP** Uncrossing Price



Service Name	Performance Channel(s)
European Level 1 Plus	P10
<p><i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i></p> <p>5BY Buy/Sell Percentage 5FM Money Flow 5IP Idle Poll 5SF Enhanced Best price 5TW Time Weighted Average Spread 5UD Uncrossing Price and volume</p>	

Service Name	Performance Channel(s)
European Level 2	P11
<p><i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i></p> <p>5CT Tradable Instrument Control 5EM Ex-Marker Status 5IP Idle Poll 5MK Market Status Information 5MN Member Role in Instrument 5OE Order Deletion/Expiry/Fully Matched 5OL Temporary Period for tradable Instrument/Currency 5OM Period for Market Sector 5OO Order Details 5OV Tradable Instrument/Currency Period Change 5OW Sector Period Change 5QT Quote Update 5SG Announcement Message 5SN Quote Close 5SX Uncrossing Completed 5UP Uncrossing Price</p>	



Service Name	Performance Channel(s)
European Level Reference Data	P12

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5EM** Ex Marker Status
- 5ER** Equity Background Data
- 5IP** Idle Poll
- 5IS** Instrument Trading Data
- 5MN** Member Role in Instrument
- 5MS** Member in Segment
- 5OM** Period for Market Sector
- 5PR** Opening Price
- 5SD** Segment Description
- 5SG** Announcement Message
- 5SK** Closing Price
- 5SS** Sector Description
- 5TM** Tick Size Matrix for Segment / Currency
- 5TY** Trade Type for Segment
- 5VI** Settlement Venue for Tradable Instrument

Service Name	Performance Channel(s)
Covered Warrants Level 1	P13

MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:

- 5DV** Cumulative Number and Volume of Trades
- 5EM** Ex Marker Status
- 5IP** Idle Poll
- 5SE** Best Price
- 5SG** Announcement Message
- 5UP** Uncrossing Price

Service Name	Performance Channel(s)
Covered Warrants Level 1 Plus	P14
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5IP	Idle Poll
5SF	Enhanced Best price
5UD	Uncrossing Price and volume

Service Name	Performance Channel(s)
Covered Warrants Level 2	P15
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5CT	Tradable Instrument Control
5EM	Ex-Marker Status
5IP	Idle Poll
5MK	Market Status Information
5MN	Member Role in Instrument
5OE	Order Deletion/Expiry/Fully Matched
5OL	Temporary Period for tradable Instrument/Currency
5OM	Period for Market Sector
5OO	Order Details
5OV	Tradable Instrument/Currency Period Change
5OW	Sector Period Change
5QT	Quote Update
5SG	Announcement Message
5SN	Quote Close
5SX	Uncrossing Completed
5UP	Uncrossing Price

Service Name	Performance Channel(s)
Market Status Indicators	P16
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5CT	Tradable Instrument Control
5IP	Idle Poll
5MK	Market Status Information
5MN	Member Role in Instrument
5OL	Temporary Period for tradable Instrument/Currency
5OM	Period for Market Sector
5OV	Tradable Instrument/Currency Period Change
5OW	Sector Period Change
5SX	Uncrossing Completed

Service Name	Performance Channel(s)
Market Reference Data	P17
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5HM	Period Handling for Market Mechanism Type
5HV	Period Handling for Validity Type
5IP	Idle Poll
5MR	Member Details
5MT	Market Description
5PE	Period Extensions
5PU	Period Rules for Market Mechanism & Validity Type
5PM	Period Rules for Market Mechanism Type
5SV	Settlement Venue



Service Name	Performance Channel(s)
RNS News	P18
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5IP	Idle Poll
5NC	News Control
5NT	News Text
5SB	News Service Trailer
5SH	News Service Header

Service Name	Performance Channel(s)
DOL (Full)	P19
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5IP	Idle Poll
5SL	DOL Quotation

Service Name	Performance Channel(s)
DOL (Changes)	P20
<i>MESSAGE TYPES THAT MAY BE BROADCAST OVER THESE PERFORMANCE CHANNELS:</i>	
5IP	Idle Poll
5SL	DOL Quotation

Appendix C - Estimated HVS Profile

