



London
STOCK EXCHANGE

Performance Channels

Pilot Service - Service and Technical Description

May 2007

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Document History

February 2007	First issue published on website
May 2007	Updated with information on the Performance Channel Pilot Service

Amendment Indication

To indicate the location of an amendment within the text of this document, a left-hand marginal rule is placed alongside the amended part of the text (as shown in this paragraph).

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 their technical configuration as a pilot service on Infolect.

This document refers to the implementation of Performance Channels on the Exchange's Infolect platform, the first major release of the Exchange's Technology Roadmap. The next release is the new trading platform, TradElect. For more information on the implementation of TradElect please refer to <http://www.londonstockexchange.com/tradelect>

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 "throttled" back 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 effectively remove the throttles by increasing the available bandwidth for the data to ensure it is disseminated as it arrives, "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.

3 Access to Performance Channels

Performance Channels will be available as a pilot service to all customers connected to the Exchange via a 10Mb Extranex service. During this pilot phase existing UK Level 2 Service Channel (S03) customers will be able to subscribe to the UK Level 2 Performance Channel (P03).

Prior to the introduction of the pilot service on 18 June 2007, Performance Channels will also be available during the TradElect Customer Dress Rehearsal weekends on Saturday 19 May and Saturday 2 June 2007 for those customers that have subscribed to the pilot service.

Customers are recommended to use a separate User Access Service Point (USAP) to re-request Performance Channels on Infolect. Please note that the Exchange reserves the right to suspend the Customer's Performance Channel USAP if re-requesting levels are consistently excessive and impacting the service, therefore a HVS test is highly recommended before go-live of the service to mitigate against this risk. Where a

configuration exists with P03 sharing the same USAP as Service Channels (S01 to S20) this will result in all re-requesting services being suspended if there is an issue.

Following a successful completion of this pilot phase, the full Performance Channel product will be made available as a chargeable service, with a line upgrade necessary in order to receive the data with these higher throttle settings to account for sharp bursts in the data.

4 Testing

Before a customer can receive the pilot service the Exchange highly recommends that they complete a Performance Channel HVS test to confirm that their systems and infrastructure can support the increased message throughput that Performance Channels will provide.

The complete range of Performance Channels (P01 to P20) is currently available on the Enhanced Customer Development Service and P03 is available for customers to test against on the Enhanced Conformance and High Volume Service. A subset of Performance Channels is also available in the Order Book Simulator.

Further information on the Exchange's existing testing services is available from the Technical Library section of our website at <http://www.londonstockexchange.com/techlib>

5 Technical Configuration

Performance Channels in the pilot phase will retain the same message structure as Service Channels, however, they will use a separate Service Code and be broadcast on a separate set of multi-cast IP addresses.

Service	Infolect IP Address	Port
Exchange Address	10.1.144.115	N/A

Performance Channel Code	Service Description	Infolect Multicast IP Address
P03	UK Level 2	224.4.0.3

Please note that the port number for all Performance Channels in the Production environment will be **60500**.

Customers should be aware that the same message on Service Channels and Performance Channels may have a different sequence number and will need to consider this if moving from one service to the other intraday.

For more information on the Technical Configuration of Performance Channels on the Customer Testing Services please see Appendix A.

6 Timescales

The Performance Channel Pilot Service will be available from Monday 18 June 2007 and will run for a minimum of three months. This coincides with the launch of the

Exchange's new trading system, TradElect. Prior to this the service will also be available during the TradElect Customer Dress Rehearsal weekends - Saturday 19 May and Saturday 2 June 2007.

Timescales relating to the full product launch will be announced in due course.

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 - Technical Configuration on the Customer Testing Services

Customer Development Service (CDS)

Service	TradElect Enhanced CDS Multicast IP Address	Port
Exchange Address	10.5.54.115	N/A

Performance Channel Code	Service Description	TradElect Enhanced CDS Multicast IP Address
P01	UK Level 1	224.4.0.193
P02	UK Level 1 Plus	224.4.0.194
P03	UK Level 2	224.4.0.195
P04	UK Reference Data	224.4.0.196
P05	International Level 1	224.4.0.197
P06	International Level 1 Plus	224.4.0.198
P07	International Level 2	224.4.0.199
P08	International Reference Data	224.4.0.200
P09	Dutch Trading Service Level 1	224.4.0.201
P10	Dutch Trading Service Level 1 Plus	224.4.0.202
P11	Dutch Trading Service Level 2	224.4.0.203
P12	Dutch Trading Service Reference Data	224.4.0.204
P13	Covered Warrants Level 1	224.4.0.205
P14	Covered Warrants Level 1 Plus	224.4.0.206
P15	Covered Warrants Level 2	224.4.0.207
P16	Market Status Indicators	224.4.0.208
P17	Market Reference Data	224.4.0.209
P18	RNS News	224.4.0.210
P19	DOL (Full)	224.4.0.211
P20	DOL (Changes)	224.4.0.212

Please note that the port number for all Performance Channels in the CDS environment will be **61500**.

Conformance/HVS

Service	TradElect Conformance Multicast IP Address	Port
Exchange Address	10.5.54.115	N/A

Performance Channel Code	Service Description	TradElect Conformance Multicast IP Address
P01	UK Level 1	224.4.0.225

P02	UK Level 1 Plus	224.4.0.226
P03	UK Level 2	224.4.0.227
P04	UK Reference Data	224.4.0.228
P05	International Level 1	224.4.0.229
P06	International Level 1 Plus	224.4.0.230
P07	International Level 2	224.4.0.231
P08	International Reference Data	224.4.0.232
P09	Dutch Trading Service Level 1	224.4.0.233
P10	Dutch Trading Service Level 1 Plus	224.4.0.234
P11	Dutch Trading Service Level 2	224.4.0.235
P12	Dutch Trading Service Reference Data	224.4.0.236
P13	Covered Warrants Level 1	224.4.0.237
P14	Covered Warrants Level 1 Plus	224.4.0.238
P15	Covered Warrants Level 2	224.4.0.239
P16	Market Status Indicators	224.4.0.240
P17	Market Reference Data	224.4.0.241
P18	RNS News	224.4.0.242
P19	DOL (Full)	224.4.0.243
P20	DOL (Changes)	224.4.0.244

Please note that the port number for all Performance Channels in the Conformance/HVS environment will be **62500**. Only P03 is available as part of the Performance Channel Pilot Service.