



London
Stock Exchange Group

LONDON STOCK EXCHANGE GROUP GROUP TICKER PLANT

GTP 004 - PARAMETERS GUIDE

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Guide Disclaimer

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For further information, please contact your usual London Stock Exchange Group contact.

1. Documentation

1.1 This Guide

The purpose of this document is to provide an overview of the various product parameters required to enable customer connections to, and for interaction with, the Group Ticker Plant. This includes network topology information and replay and recovery parameters.

It will be updated and reissued when appropriate to do so.

1.2 Readership

This document is particularly relevant to technical teams within member firms, information vendors and other market participants who currently receive or are interested in receiving London Stock Exchange Group market data from the Group Ticker Plant.

When read in conjunction with other Group Ticker Plant documents it is intended to provide all required information to configure customer systems.

1.3 Document Series

This guide, **GTP004 – Parameters Guide**, forms part of the documentation library supporting those clients interacting with the Group Ticker Plant. For information, the full series of currently available documentation is outlined below:

- GTP001 – Product Guide;
- GTP002 – Technical Guide;
- GTP003 – Statistics Guide;
- GTP004 – Parameters Guide (this document);
- GTP005 – Testing Services Guide;
- GTP006 – External Sources Guide;
- GTP007 – GTP Lite Guide.
- GTP008 – Market Attributes Guide

Further documentation to support activities such as testing and displaying our data will be released in due course.

The full library of Group Ticker Plant documentation can be found at:

www.londonstockexchange.com/oneproductinfinitepossibilities

1.4 Document History

This document has been subject to the following iterations:

Issue	Date	Description
1.0	27 July 2012	First issue of this document

2.0	31 August 2012	Second issue of this document with the following iterations: 2.3 - update to IP addressing (Level 2 MBP and Other Service Line secondary feed multicast addresses); 2.4 - inclusion of replay and recovery parameters.
3.0	30 November 2012	Inclusion of IP addressing and replay and recovery parameters for Production instances.
4.0	8 February 2013	Inclusion of IP addressing for FTSE Low Latency services.
5.0	14 February 2014	Inclusion of IP addressing for GTP Lite and EuroTLX and correction to London Production Level 2 IP range.
6.0	6 March 2014	Inclusion of full-depth GTP Lite IP details.
7.0	17 April 2014	Inclusion of Production details for EuroTLX and GTP Lite.
8.0	29 July 2014	Inclusion of FTSE and Borsa Admin channel GTP Lite IP details.
9.0	25 June 2015	Inclusion of Phase 2 IP address ranges to support CDS launch.
10.0	21 October 2015	Update to include correct IP details for multicast group Z on CDS.
11.0	30 October 2015	Updated to include Phase 2 Production IP ranges.
12.0	27 January 2016	Updated to reflect suspension of Channel Z from London-based Group Ticker Plant instance.
13.0	4 May 2016	Updated to include additional IP ranges to launched to support active/active PDC/SDC architecture in Milan.
14.0	6 May 2016	Updated to reflect corrections to IP ranges included as part of Issue 13.0.
14.1	19 May 2016	Minor correction to replay and recovery ports on page 25.
15.0	8 July 2016	Updated to reflect minor corrections.
16.0	30 September 2016	Updated to support the launch of TradEcho.
17.0	10 January 2017	Formally reissued to support launch of TradEcho.
18.0	5 April 2017	Updated to include TRADEcho and Turquoise production connectivity details.
18.1	20 July 2017	Minor correction 3.4 – TRADEcho channel 8 Recovery port corrected 2.6 – Updated replay cache size for CDS
19.0	26 June 2017	Updated Production and CDS MiFID

		<p>channel information:</p> <p>2.4 – TRADEcho Phase 1 ‘Trade’ channels removed from ‘non-MiFID’ CDS ranges</p> <p>2.5 – new MiFID II post trade CDS channels</p> <p>3.1 – IDEM and EuroTLX channels greyed out to reflect their upcoming decommission under MiFID II</p> <p>3.2 – IDEM and EuroTLX channels greyed out to reflect their upcoming decommission under MiFID II</p> <p>3.3 – IDEM and EuroTLX channels greyed out to reflect their upcoming decommission under MiFID II</p> <p>3.4 – TRADEcho ‘Trade’ channels greyed out to reflect the decommission once the MiFID II compliant equivalents go live.</p> <p>3.5 – new London Production MiFID II post trade channels added.</p> <p>4.5 – new Milan Production MiFID II post trade channels added</p>
19.1	20 July 2017	<p>2.5 – Updated MiFID II post trade CDS channels</p>
19.2	05 September 2017	<p>Updates to MiFID II Feed Production I.Ps</p> <p>3 – text updated to reflect the permanent decommission of services</p> <p>3.5 – London production I.P addresses published</p> <p>4 - text updated to reflect the permanent decommission of services</p> <p>4 – Service availability times updated</p> <p>4.5 – Milan production I.P addresses published</p>
19.3	13 December 2017	<p>Decommission of FTSE Low Latency service in Production 19 Dec and CDS 18 Dec.</p>

		Removed from section 2.6 and 3.5
19.4	12 February 2018	Un-greysed out TRADEcho Trades channel to reflect re-purposing of channels for new SI Quote message 2.4 - CDS IP Address Ranges 3.4 - London Production IP Address Ranges
19.5	30 April 2018	Added Legacy CDS Connectivity Details (Section 3)
19.5.1	8 August 2018	2.6 – Corrected CDS IP Recovery Service Address
19.6	9 August 2019	2.6 – 3.6 – 5.6 Added EuroTLX Admin channel 5 and sub-sections – Removed Tertiary Feed in GTP Milan 3 and sub-sections – Corrected Primary and Secondary Multicast IPs

In subsequent issues of this document, where amendments have been made, these changes will be indicated through the use of **red text**.

1.5 Enquiries

For further information on Group Ticker Plant, please contact either your Technical Account Manager or the Client Technology Services (UK):

- Telephone: (+44) 207 797 3939
- Email: londontam@lseg.com

or Client Technology Services (Italy):

- Telephone: (+39) 02 42 41 13 99
- Telephone (Toll Free): (00800) 26 77 20 00
- Email: clients-services@borsaitaliana.it

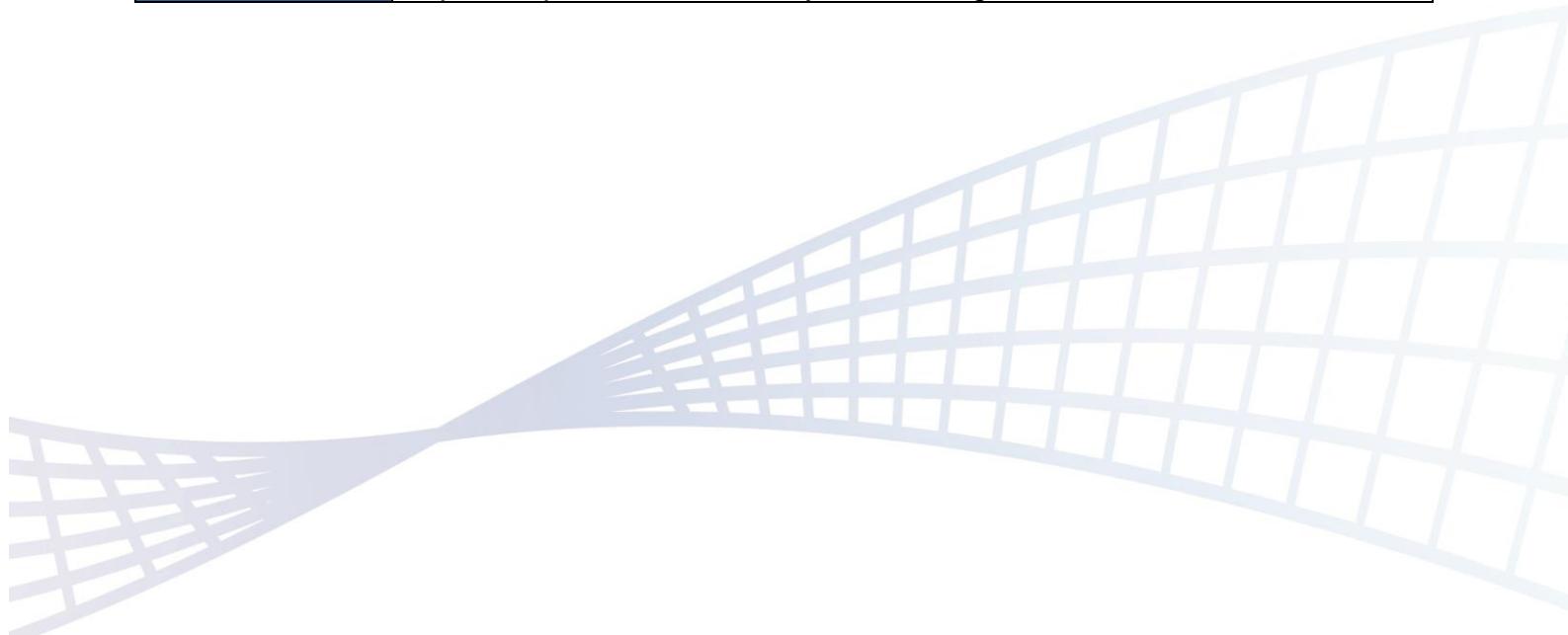
Further information can also be found on our project websites:

www.londonstockexchange.com/oneproductinfinitepossibilities

www.borsaitaliana.it/oneproductinfinitepossibilities

2. Customer Development Service (CDS)

Location	London
Access	Extranex, BltNet (via. LSEG backbone), Customer-Managed Connectivity (CMC), Exchange Hosting - London, Exchange Hosting – Milan (via. LSEG backbone).
Description	To provide a functional environment for client testing. CDS is not a performant environment and in an effort to protect client and Group networks, outbound throttle rates are set low. Customers should not expect to performance test systems using this environment.



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2.1 CDS IP Address Ranges - Level 1

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service	Replay Service	Recovery Service		
Primary Feed									
A	FTSE 100		224.4.12.64				53464		54464
B	FTSE 100		224.4.12.65				53465		54465
C	FTSE 250		224.4.12.66				53466		54466
D	Structured Products		224.4.12.67				53467		54467
E	Miscellaneous		224.4.12.68				53468		54468
F	European		224.4.12.69				53469		54469
G	International		224.4.12.70				53470		54470
H	MTA		224.4.12.71		61400	194.169 .8.222	53671	194.169 .8.220	54471
I	MTA and SEDEX		224.4.12.72				53672	53471	54472
J	Structured Products		224.4.12.73				53673	53472	54473
K	Miscellaneous		224.4.12.74				53674	53473	54473
L	IDEM		224.4.12.75				53675	53474	54474
M	IDEM		224.4.12.76				53676	53475	54475
Q	EuroTLX		224.4.12.77				53677	53476	54476
R	EuroTLX		224.4.12.78				53678	53477	54477
S	EuroTLX		224.4.12.79				53679	53478	54478
Z	TAH and MiFID		224.4.12.86				53686	53479	54479
Secondary Feed									
a	FTSE 100		224.4.13.64				53464		54464
b	FTSE 100		224.4.13.65				53465		54465
c	FTSE 250		224.4.13.66				53466		54466
d	Structured Products		224.4.13.67				53467		54467
e	Miscellaneous		224.4.13.68				53468		54468
f	European		224.4.13.69				53469		54469
g	International		224.4.13.70				53470		54470
h	MTA		224.4.13.71		61450	194.169 .8.252	53671	194.169 .8.250	54471
i	MTA and SEDEX		224.4.13.72				53672	53471	54472
j	Structured Products		224.4.13.73				53673	53472	54473
k	Miscellaneous		224.4.13.74				53674	53473	54473
l	IDEM		224.4.13.75				53675	53474	54474
m	IDEM		224.4.13.76				53676	53475	54475
q	EuroTLX		224.4.13.77				53677	53476	54476
r	EuroTLX		224.4.13.78				53678	53477	54477
s	EuroTLX		224.4.13.79				53679	53478	54478
z	TAH and MiFID		224.4.13.86				53686	53479	54479

2.2 CDS IP Address Ranges - Level 2 MBO

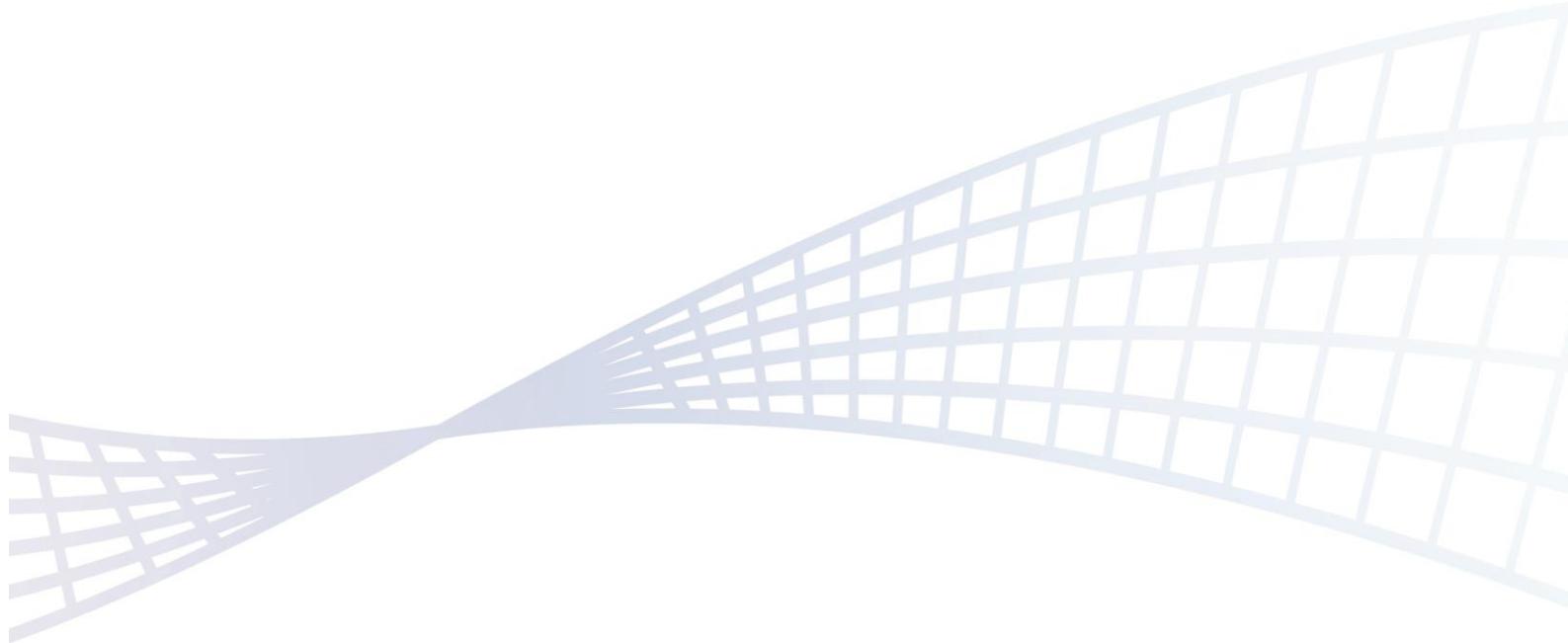
Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service	Replay Service	Recovery Service		
Primary Feed									
A	FTSE 100		224.4.12.1				53401		54401
B	FTSE 100		224.4.12.2				53402		54402
C	FTSE 250		224.4.12.3				53403		54403
D	Structured Products		224.4.12.4				53404		54404
E	Miscellaneous		224.4.12.5				53405		54405
F	European		224.4.12.6				53406		54406
G	International		224.4.12.7				53407		54407
H	MTA		224.4.12.8		61400	194.169 .8.222	53608	194.169 .8.220	54408
I	MTA and SEDEX		224.4.12.9				53609	53409	54409
J	Structured Products		224.4.12.10				53610	53410	54410
K	Miscellaneous		224.4.12.11				53611	53411	54411
L	IDEEM		224.4.12.12				53612	53412	54412
M	IDEEM		224.4.12.13				53613	53413	54413
Q	EuroTLX		224.4.12.14				53614	53414	54414
R	EuroTLX		224.4.12.15				53615	53415	54415
S	EuroTLX		224.4.12.16				53616	53416	54416
Z	TAH and MiFID		224.4.12.23				53623	53423	54423
Secondary Feed									
a	FTSE 100		224.4.13.1				53401		54401
b	FTSE 100		224.4.13.2				53402		54402
c	FTSE 250		224.4.13.3				53403		54403
d	Structured Products		224.4.13.4				53404		54404
e	Miscellaneous		224.4.13.5				53405		54405
f	European		224.4.13.6				53406		54406
g	International		224.4.13.7				53407		54407
h	MTA		224.4.13.8		61450	194.169 .8.252	53608	194.169 .8.250	54408
i	MTA and SEDEX		224.4.13.9				53609	53409	54409
j	Structured Products		224.4.13.10				53610	53410	54410
k	Miscellaneous		224.4.13.11				53611	53411	54411
l	IDEEM		224.4.13.12				53612	53412	54412
m	IDEEM		224.4.13.13				53613	53413	54413
q	EuroTLX		224.4.13.14				53614	53414	54414
r	EuroTLX		224.4.13.15				53615	53415	54415
s	EuroTLX		224.4.13.16				53616	53416	54416
z	TAH and MiFID		224.4.13.23				53623	53423	54423

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2.3 CDS IP Address Ranges - Level 2 MBP

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
A	FTSE 100		224.4.12.32				53432			54432
B	FTSE 100		224.4.12.33				53433			54433
C	FTSE 250		224.4.12.34				53434			54434
D	Structured Products		224.4.12.35				53435			54435
E	Miscellaneous		224.4.12.36				53436			54436
G	International		224.4.12.37				53437			54437
H	MTA		224.4.12.38				53438			54438
I	MTA and SEDEX		224.4.12.39				53439			54439
J	Structured Products		224.4.12.40				53440			54440
K	Miscellaneous		224.4.12.41				53641			54441
L	IDEM		224.4.12.42				53642			54442
M	IDEM		224.4.12.43				53643			54443
Q	EuroTLX		224.4.12.44				53644			54444
R	EuroTLX		224.4.12.45				53645			54445
S	EuroTLX		224.4.12.46				53646			54446
Z	TAH and MiFID		224.4.12.53				53653			54453
Secondary Feed										
a	FTSE 100		224.4.13.32				53432			54432
b	FTSE 100		224.4.13.33				53433			54433
c	FTSE 250		224.4.13.34				53434			54434
d	Structured Products		224.4.13.35				53435			54435
e	Miscellaneous		224.4.13.36				53436			54436
g	International		224.4.13.37				53437			54437
h	MTA		224.4.13.38				53638			54438
i	MTA and SEDEX		224.4.13.39				53639			54439
j	Structured Products		224.4.13.40				53640			54440
k	Miscellaneous		224.4.13.41				53641			54441
l	IDEM		224.4.13.42				53642			54442
m	IDEM		224.4.13.43				53643			54443
q	EuroTLX		224.4.13.44				53644			54444
r	EuroTLX		224.4.13.45				53645			54445
s	EuroTLX		224.4.13.46				53646			54446
z	TAH and MiFID		224.4.13.53				53653			54453

y	XMAS, XBRU...		224.4.13.123				53523		54523
z	TAH and MiFID		224.4.13.124			53724		53524	54524
5	SI Quotes		224.4.13.92				53492		54492
7	SI Quotes		244.4.13.94				53494		54494



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y	XMAS, XBRU...		224.4.1.85				53822			54822
z	TAH and MiFID		224.4.1.86			53923			53823	54823
6	TRADEcho Trades		224.4.1.87				53824		53824	54824
8	TRADEcho Trades		224.4.1.88				53825		53825	54825

2.6 CDS IP Address Ranges - Other Service Lines

					GTP Lite Service		Replay Service		Recovery Service	
Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
N	EuroTLX Admin	194.169.8.205	224.4.12.97	61400	194.169	53697	194.169	53497	194.169	54497
O	FTSE Indices		224.4.12.96		.8.222	53696	.8.220	53496	.8.220	54498
P	Borsa Admin		224.4.12.98			53698		53498		
Secondary Feed										
n	EuroTLX Admin	194.169.8.235	224.4.13.97	61450	194.169	53697	194.169	53497	194.169	54497
o	FTSE Indices		224.4.13.96		.8.252	53696	.8.250	53496	.8.250	54498
p	Borsa Admin		224.4.13.98			53698		53498		

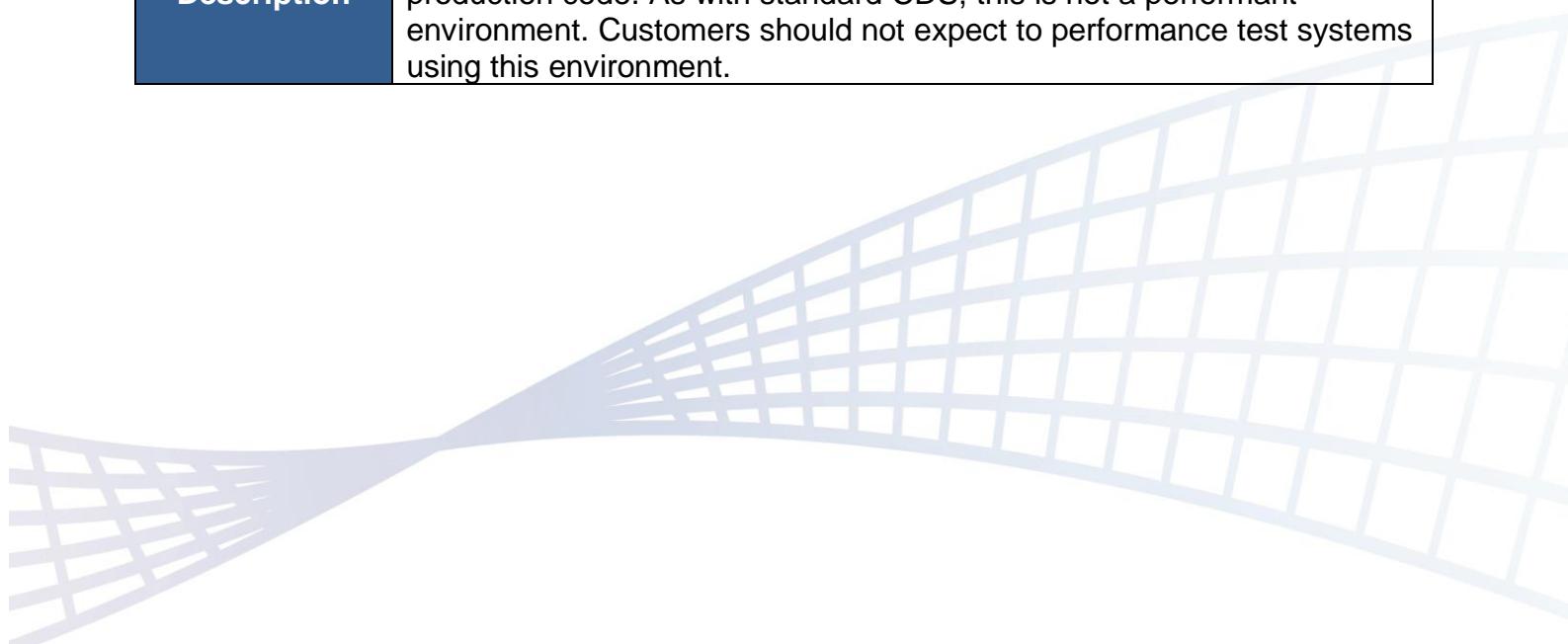
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2.7 CDS Replay and Recovery Service Parameters

	Description	Value
Replay Service	Maximum number of messages available to clients on replay services	65,000 messages
	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of replay requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests
Recovery Service	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of recovery requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests

3. Legacy Customer Development Service (LCDS)

Location	London
Access	Extranet, BltNet (via. LSEG backbone), Customer-Managed Connectivity (CMC), Exchange Hosting - London, Exchange Hosting – Milan (via. LSEG backbone).
Description	Legacy CDS is offered in addition to the standard CDS environment. The purpose of Legacy CDS is to allow client testing against the current production code. As with standard CDS, this is not a performant environment. Customers should not expect to performance test systems using this environment.



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3.1 Legacy CDS IP Address Ranges - Level 1

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
Primary Feed										
A	FTSE 100	94.46.104.2 09	224.4.16.64	61400	94.46.1 04.195	53671 53672 53673 53674 53675 53676 53677 53678 53679 53686	94.46.1 04.194	53464	94.46.1 04.194	54464
B	FTSE 100		224.4.16.65					53465		54465
C	FTSE 250		224.4.16.66					53466		54466
D	Structured Products		224.4.16.67					53467		54467
E	Miscellaneous		224.4.16.68					53468		54468
F	European		224.4.16.69					53469		54469
G	International		224.4.16.70					53470		54470
H	MTA		224.4.16.71					53471		54471
I	MTA and SEDEX		224.4.16.72					53472		54472
J	Structured Products		224.4.16.73					53473		54473
K	Miscellaneous		224.4.16.74					53474		54474
L	IDEM		224.4.16.75					53475		54475
M	IDEM		224.4.16.76					53476		54476
Q	EuroTLX		224.4.16.77					53477		54477
R	EuroTLX		224.4.16.78					53478		54478
S	EuroTLX		224.4.16.79					53479		54479
Z	TAH and MiFID		224.4.16.86					53486		54486
Secondary Feed										
a	FTSE 100	94.46.104.2 17	224.4.17.64	61450	94.46.1 04.203	53671 53672 53673 53674 53675 53676 53677 53678 53679 53686	94.46.1 04.202	53464	94.46.1 04.202	54464
b	FTSE 100		224.4.17.65					53465		54465
c	FTSE 250		224.4.17.66					53466		54466
d	Structured Products		224.4.17.67					53467		54467
e	Miscellaneous		224.4.17.68					53468		54468
f	European		224.4.17.69					53469		54469
g	International		224.4.17.70					53470		54470
h	MTA		224.4.17.71					53471		54471
i	MTA and SEDEX		224.4.17.72					53472		54472
j	Structured Products		224.4.17.73					53473		54473
k	Miscellaneous		224.4.17.74					53474		54474
l	IDEM		224.4.17.75					53475		54475
m	IDEM		224.4.17.76					53476		54476
q	EuroTLX		224.4.17.77					53477		54477
r	EuroTLX		224.4.17.78					53478		54478
s	EuroTLX		224.4.17.79					53479		54479
z	TAH and MiFID		224.4.17.86					53486		54486

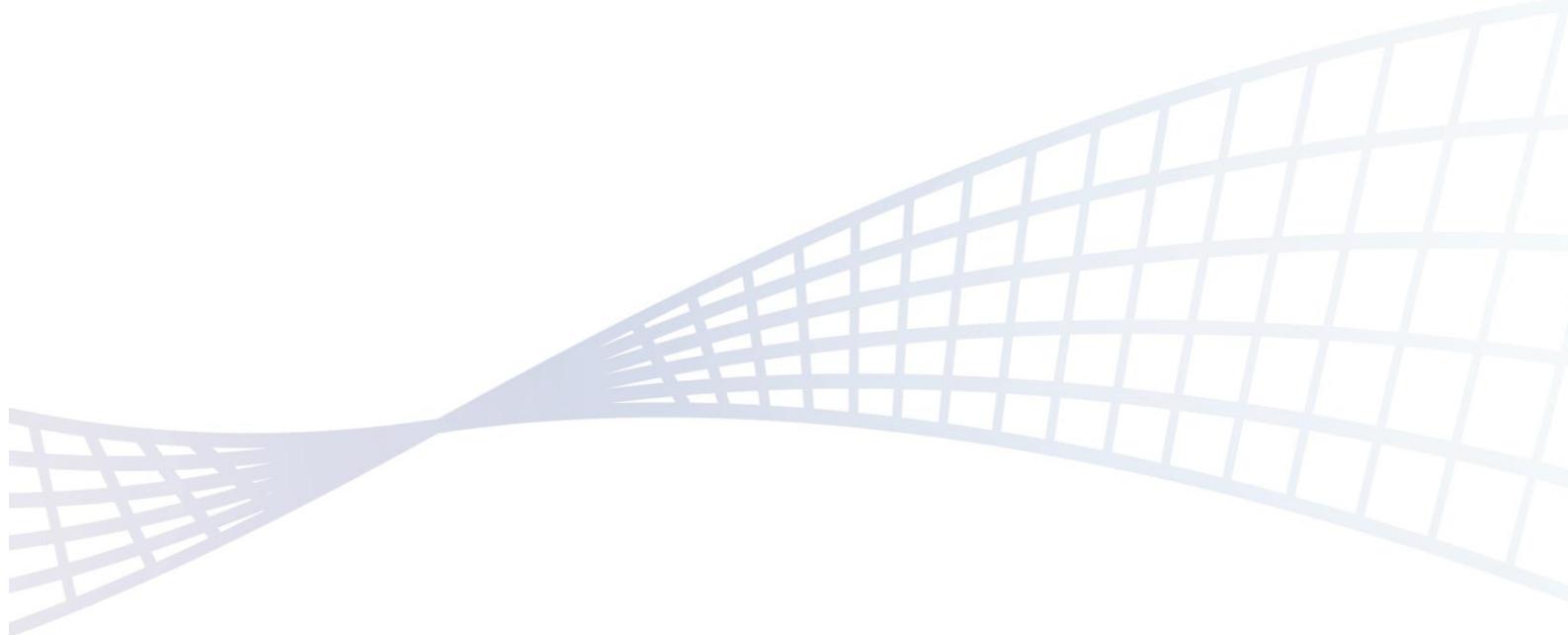
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3.4 Legacy CDS IP Address Ranges - Level 2 Incremental (Full-depth)

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
Primary Feed										
A	FTSE 100		224.4.16.102						53502	
B	FTSE 100		224.4.16.103						53503	54502
C	FTSE 250		224.4.16.104						53504	54503
D	Structured Products		224.4.16.105						53505	54504
E	Miscellaneous		224.4.16.106						53506	54505
F	European		224.4.16.107						53507	54506
G	International		224.4.16.108						53508	54507
H	MTA		224.4.16.109			53709			53509	54508
I	MTA and SEDEX		224.4.16.110			53710			53510	54509
J	Structured Products		224.4.16.111			53711			53511	54510
K	Miscellaneous		224.4.16.112			53712			53512	54511
L	IDEM		224.4.16.113			53713			53513	54512
M	IDEM		224.4.16.114		94.46.1 04.195	53714		94.46.1 04.194	53514	54513
Q	EuroTLX		224.4.16.115			53715			53515	54514
R	EuroTLX		224.4.16.116			53716			53516	54515
S	EuroTLX		224.4.16.117			53717			53517	54516
T	XLON		224.4.16.118						53518	54517
U	XPAR		224.4.16.119						53519	54518
V	XETR		224.4.16.120						53520	54519
W	XCSE, XHEL...		224.4.16.121						53521	54520
X	MTAA, XOSL...		224.4.16.122						53522	54521
Y	XAMS, XBRU...		224.4.16.123						53523	54522
Z	TAH and MiFID		224.4.16.124			53724			53524	54523
1	SI Quotes		224.4.16.92						53492	54524
3	SI Quotes		224.4.16.94						53494	54492
Secondary Feed										
a	FTSE 100		224.4.17.102						53502	
b	FTSE 100		224.4.17.103						53503	54503
c	FTSE 250		224.4.17.104						53504	54504
d	Structured Products		224.4.17.105						53505	54505
e	Miscellaneous		224.4.17.106						53506	54506
f	European		224.4.17.107						53507	54507
g	International		224.4.17.108						53508	54508
h	MTA		224.4.17.109			53709			53509	54509
i	MTA and SEDEX		224.4.17.110			53710			53510	54510
j	Structured Products		224.4.17.111			53711			53511	54511
k	Miscellaneous		224.4.17.112			53712			53512	54512
l	IDEM		224.4.17.113		94.46.1 04.203	53713		94.46.1 04.202	53513	54513
m	IDEM		224.4.17.114			53714			53514	54514
q	EuroTLX		224.4.17.115			53715			53515	54515
r	EuroTLX		224.4.17.116			53716			53516	54516
s	EuroTLX		224.4.17.117			53717			53517	54517
t	XLON		224.4.17.118						53518	54518
u	XPAR		224.4.17.119						53519	54519
v	XETR		224.4.17.120						53520	54520
w	XCSE, XHEL...		224.4.17.121						53521	54521
x	MTAA, XOSL...		224.4.17.122						53522	54522

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s	EuroTLX		224.4.17.144			53916		53816		54816
t	XLON		224.4.17.145					53817		54817
u	XPAR		224.4.17.146					53818		54818
v	XETR		224.4.17.147					53819		54819
w	XCSE, XHEL...		224.4.17.148					53820		54820
x	MTAA, XOSL...		224.4.17.149					53821		54821
y	XMAS, XBRU...		224.4.17.150					53822		54822
z	TAH and MiFID		224.4.17.151			53923		53823		54823
6	TRADEcho Trades		224.4.17.152					53824		54824
8	TRADEcho Trades		224.4.17.153					53825		54825



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3.6 Legacy CDS IP Address Ranges - Other Service Lines

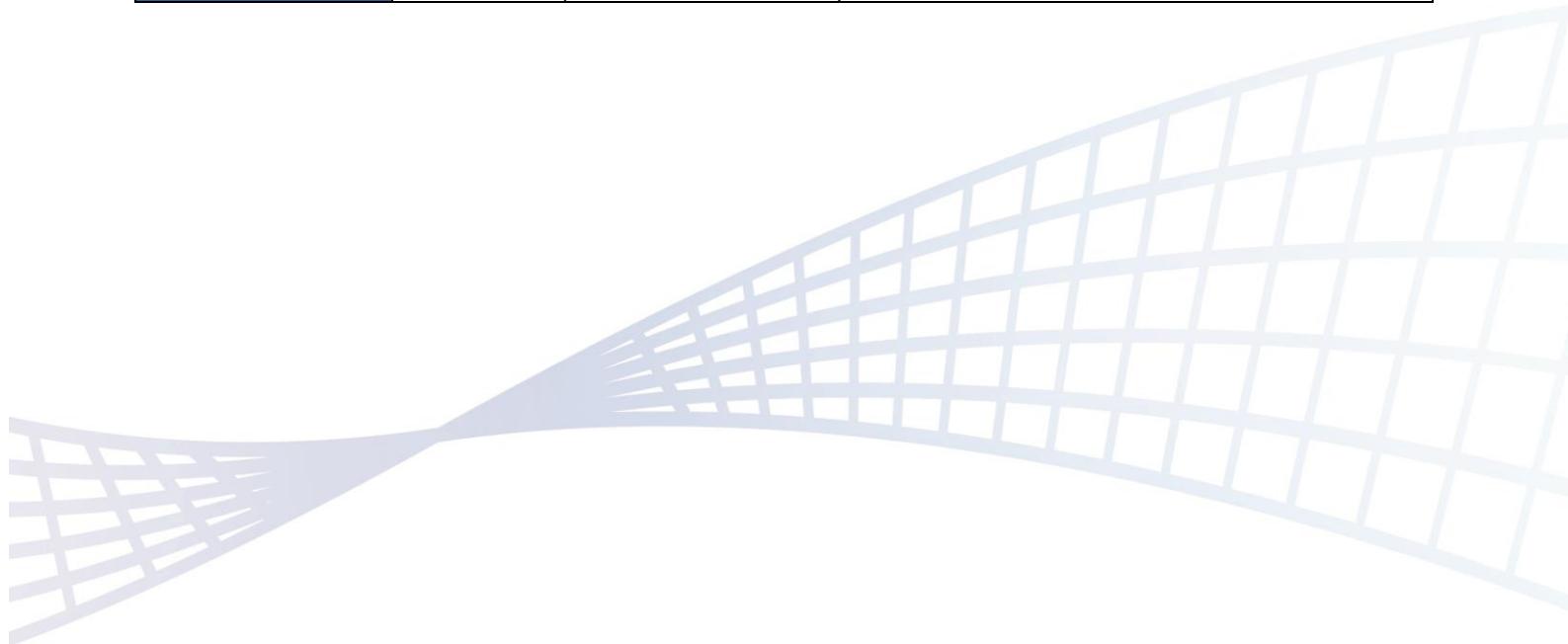
Gro -up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
Primary Feed										
N	EuroTLX Admin		224.4.16.97		94.46.1	53697	94.46.1	53497	94.46.1	54497
O	FTSE Indices	94.46.104.1 93	224.4.16.96	61400	04.195	53696	04.194	53496	04.194	54498
P	Borsa Admin		224.4.16.98			53698		53498		
Secondary Feed										
n	EuroTLX Admin		224.4.17.97		94.46.1	53697	94.46.1	53497	94.46.1	54497
o	FTSE Indices	94.46.104.2 01	224.4.17.96	61450	04.203	53696	04.202	53496	04.202	54498
p	Borsa Admin		224.4.17.98			53698		53498		

3.7 Legacy CDS Replay and Recovery Service Parameters

	Description	Value
Replay Service	Maximum number of messages available to clients on replay services	65,000 messages
	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of replay requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests
Recovery Service	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of recovery requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests

4. Production: London Instance

Location	London
Access	Extranet, NSP, Customer-Managed Connectivity (CMC), Exchange Hosting – London. BItNet, Exchange Hosting – Milan.
Description	The Production instance of Group Ticker Plant in London is available to clients from 0445 (Local London Time) and will broadcast messages from 0500 (Local London Time).



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4.1 London Production IP Address Ranges - Level 1

							Replay Service	Recovery Service	
	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed	A	FTSE 100	194.169.4.55	224.4.10.64	60400	194.169.4.35	63864	194.169.4.35	64864
	B	FTSE 100		224.4.10.65			63865		64865
	C	FTSE 250		224.4.10.66			63866		64866
	D	Structured Products		224.4.10.67			63867		64867
	E	Miscellaneous		224.4.10.68			63868		64868
	F	European		224.4.10.69			63869		64869
	G	International		224.4.10.70			63870		64870
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.11.64	60400	194.169.4.100	63864	194.169.4.100	64864
	b	FTSE 100		224.4.11.65			63865		64865
	c	FTSE 250		224.4.11.66			63866		64866
	d	Structured Products		224.4.11.67			63867		64867
	e	Miscellaneous		224.4.11.68			63868		64868
	f	European		224.4.11.69			63869		64869
	g	International		224.4.11.70			63870		64870

4.2 London Production IP Address Ranges - Level 2 MBO

							Replay Service	Recovery Service	
	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed	A	FTSE 100	194.169.4.55	224.4.10.1	60400	194.169.4.35	63801	194.169.4.35	64801
	B	FTSE 100		224.4.10.2			63802		64802
	C	FTSE 250		224.4.10.3			63803		64803
	D	Structured Products		224.4.10.4			63804		64804
	E	Miscellaneous		224.4.10.5			63805		64805
	F	European		224.4.10.6			63806		64806
	G	International		224.4.10.7			63807		64807
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.11.1	60400	194.169.4.100	63801	194.169.4.100	64801
	b	FTSE 100		224.4.11.2			63802		64802
	c	FTSE 250		224.4.11.3			63803		64803
	d	Structured Products		224.4.11.4			63804		64804
	e	Miscellaneous		224.4.11.5			63805		64805
	f	European		224.4.11.6			63806		64806
	g	International		224.4.11.7			63807		64807

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4.3 London Production IP Address Ranges - Level 2 MBP

						Replay Service	Recovery Service		
	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Virtual-IP Address	Port	
Primary Feed	A	FTSE 100	194.169.4.55	224.4.10.32	60400	194.169.4.35	63832	194.169.4.35	64832
	B	FTSE 100		224.4.10.33			63833		64833
	C	FTSE 250		224.4.10.34			63834		64834
	D	Structured Products		224.4.10.35			63835		64835
	E	Miscellaneous		224.4.10.36			63836		64836
	G	International		224.4.10.38			63838		64838
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.11.32	60400	194.169.4.100	63832	194.169.4.100	64832
	b	FTSE 100		224.4.11.33			63833		64833
	c	FTSE 250		224.4.11.34			63834		64834
	d	Structured Products		224.4.11.35			63835		64835
	e	Miscellaneous		224.4.11.36			63836		64836
	g	International		224.4.11.38			63838		34838

4.6 London Production IP Address Ranges - Level 2 Incremental (Full-depth)

						Replay Service	Recovery Service		
	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Virtual-IP Address	Port	
Primary Feed	A	FTSE 100	194.169.4.55	224.4.10.102	60400	194.169.4.35	63902	194.169.4.35	64902
	B	FTSE 100		224.4.10.103			63903		64903
	C	FTSE 250		224.4.10.104			63904		64904
	D	Structured Products		224.4.10.105			63905		64905
	E	Miscellaneous		224.4.10.106			63906		64906
	F	European		224.4.10.107			63907		64907
	G	International		224.4.10.108			63908		64908
	T	XLON		224.4.10.118			63918		64918
	U	XPAR		224.4.10.119			63919		64919
	V	XETR		224.4.10.120			63920		64920
	W	XCSE, XHEL...		224.4.10.121			63921		64921
	X	MTAA, XOSL...		224.4.10.122			63922		64922
	Y	XAMS, XBRU...		224.4.10.123			63923		64923
	4	TRADEecho SI Quoting		224.4.10.91			63894		64894
	1	New SI Quotes		224.4.10.92			63892		64892
	3	TRADEecho SI Quoting		224.4.10.93			63893		64893
	3	New SI Quotes		224.4.10.94			63894		64894
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.11.102	60400	194.169.4.100	63902	194.169.4.100	64902
	b	FTSE 100		224.4.11.103			63903		64903
	c	FTSE 250		224.4.11.104			63904		64904
	d	Structured Products		224.4.11.105			63905		64905

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e	Miscellaneous		224.4.11.106		63906		64906
f	European		224.4.11.107		63907		64907
g	International		224.4.11.108		63908		64908
t	XLON		224.4.11.118		63918		64918
u	XPAR		224.4.11.119		63919		64919
v	XETR		224.4.11.120		63920		64920
w	XCSE, XHEL...		224.4.11.121		63921		64921
x	MTAA, XOSL...		224.4.11.122		63922		64922
y	XAMS, XBRU...		224.4.11.123		63923		64923
5	TRADEecho SI Quoting		224.4.11.91		63891		64891
5	New SI Quotes		224.4.11.92		63892		64892
7	TRADEecho SI Quoting		224.4.11.93		63893		64893
7	New SI Quotes		224.4.11.94		63894		64894

*For SI Quoting, either use 'New SI Quotes' or existing 'TRADEecho SI Quoting'. Refer to GTP 002 Technical Guide.

4.7 London Production IP Address Ranges - MiFID II Post Trade Channels

	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Replay Service	Recovery Service
Primary Feed	A	FTSE 100	194.169.4.55	224.4.0.1	60400	194.169.4.35	194.169.4.35
	B	FTSE 100		224.4.0.2		63931	64931
	C	FTSE 250		224.4.0.3		63932	64932
	D	Structured Products		224.4.0.4		63933	64933
	E	Miscellaneous		224.4.0.5		63934	64934
	F	European		224.4.0.6		63935	64935
	G	International		224.4.0.7		63936	64936
	T	XLON		224.4.0.8		63937	64937
	U	XPAR		224.4.0.9		63938	64938
	V	XETR		224.4.0.10		63939	64939
	W	XCSE, XHEL...		224.4.0.11		63940	64940
	X	MTAA, XOSL...		224.4.0.12		63941	64941
	Y	XAMS, XBRU...		224.4.0.13		63942	64942
	2	TRADEecho Trades		224.4.0.14		63943	64943
	4	TRADEecho Trades		224.4.0.15		63944	64944
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.1.1	60400	194.169.4.100	194.169.4.100
	b	FTSE 100		224.4.1.2		63931	64931
	c	FTSE 250		224.4.1.3		63932	64932
	d	Structured Products		224.4.1.4		63933	64933
	e	Miscellaneous		224.4.1.5		63934	64934
	f	European		224.4.1.6		63935	64935
	g	International		224.4.1.7		63936	64936
	t	XLON		224.4.1.8		63937	64937
	u	XPAR		224.4.1.9		63938	64938
	v	XETR		224.4.1.10		63939	64939
	w	XCSE, XHEL...		224.4.1.11		63940	64940
	x	MTAA, XOSL...		224.4.1.12		63941	64941
	y	XAMS, XBRU...		224.4.1.13		63942	64942
						63943	64943

	6	TRADEcho Trades		224.4.1.14			63944		64944
	8	TRADEcho Trades		224.4.1.15			63945		64945

4.8 London Production IP Address Ranges - Other Service Lines

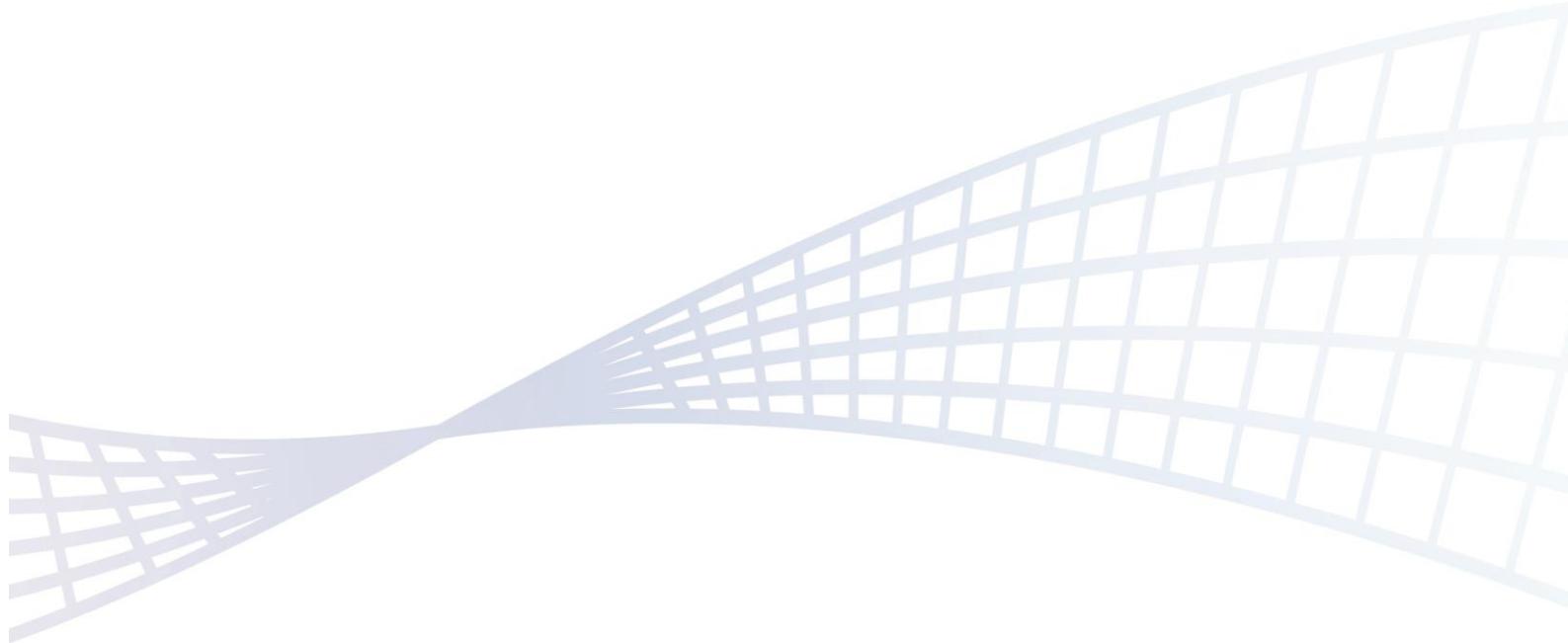
						Replay Service	Recovery Service		
	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed	O	FTSE Indices	194.169. 4.55	224.4.10.96	60400	194.169 .4.35	63896	194.169 .4.35	64898
	P	Borsa Admin		224.4.10.98			63898		
Secondary Feed	o	FTSE Indices	194.169. 4.125	224.4.11.96	60400	194.169 .4.100	63896	194.169 .4.100	64898
	p	Borsa Admin		224.4.11.98			63898		

4.9 London Production Replay and Recovery Service Parameters

		Description	Value
Replay Service		Maximum number of messages available to clients on replay services	65,000 messages
		Maximum number of logins available to clients	3,000 logins/day
		Maximum number of replay requests	5,000 requests/day
		Maximum number of concurrent outstanding requests queued	10 requests
Recovery Service		Maximum number of logins available to clients	3,000 logins/day
		Maximum number of recovery requests	5,000 requests/day
		Maximum number of concurrent outstanding requests queued	10 requests

5. Production: Milan Instance

Location	Milan
Access	Extranex, NSP, Customer-Managed Connectivity (CMC), Exchange Hosting – London. BItNet, Exchange Hosting – Milan.
Description	The Production instance of Group Ticker Plant in Milan is available to clients from 0545 (Local Milan Time) and will broadcast messages from 0500 (Local Milan Time).



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5.1 Milan Production IP Address Ranges - Level 1

Gro -up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
H	MTA		224.4.10.199		62871		63871			64871
I	MTA and SEDEX		224.4.10.200		62872		63872			64872
J	Structured Products		224.4.10.201		62873		63873			64873
K	Miscellaneous		224.4.10.202		62874		63874			64874
L	IDEIM		224.4.10.203		62875		63875			64875
M	IDEIM		224.4.10.204		62876		63876			64876
Q	EuroTLX		224.4.10.205		62877		63877			64877
R	EuroTLX		224.4.10.206		62878		63878			64878
S	EuroTLX		224.4.10.207		62879		63879			64879
Z	TAH and MiFID		224.4.10.214		62886		63886			64886
Secondary Feed										
h	MTA		224.4.11.199		62871		63871			64871
i	MTA and SEDEX		224.4.11.200		62872		63872			64872
j	Structured Products		224.4.11.201		62873		63873			64873
k	Miscellaneous		224.4.11.202		62874		63874			64874
l	IDEIM		224.4.11.203		62875		63875			64875
m	IDEIM		224.4.11.204		62876		63876			64876
q	EuroTLX		224.4.11.205		62877		63877			64877
r	EuroTLX		224.4.11.206		62878		63878			64878
s	EuroTLX		224.4.11.207		62879		63879			64879
z	TAH and MiFID		224.4.11.214		62886		63886			64886
Tertiary Feed										
h	MTA		224.4.12.199		62871		63871			64871
i	MTA and SEDEX		224.4.12.200		62872		63872			64872
j	Structured Products		224.4.12.201		62873		63873			64873
k	Miscellaneous		224.4.12.202		62874		63874			64874
q	EuroTLX		224.4.12.205		62877		63877			64877
f	EuroTLX		224.4.12.206		62878		63878			64878
s	EuroTLX		224.4.12.207		62879		63879			64879
z	TAH and MiFID		224.4.12.214		62886		63886			64886

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5.2 Milan Production IP Address Ranges - Level 2 MBO

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service	Replay Service	Recovery Service		
					Virtual-IP Address	Port	Virtual-IP Address	Port	
Primary Feed									
H	MTA	194.169.5.5 5	224.4.10.136	60400	62808	194.169 .5.37	63808	194.169 .5.35	64808
I	MTA and SEDEX		224.4.10.137		62809		63809		64809
J	Structured Products		224.4.10.138		62810		63810		64810
K	Miscellaneous		224.4.10.139		62811		63811		64811
L	IDEM		224.4.10.140		62812		63812		64812
M	IDEM		224.4.10.141		62813		63813		64813
Q	EuroTLX		224.4.10.142		62814		63814		64814
R	EuroTLX		224.4.10.143		62815		63815		64815
S	EuroTLX		224.4.10.144		62816		63816		64816
Z	TAH and MiFID		224.4.10.151		62823		63823		64823
Secondary Feed									
h	MTA	194.169.5.1 25	224.4.11.136	60400	62808	194.169 .5.102	63808	194.169 .5.100	64808
i	MTA and SEDEX		224.4.11.137		62809		63809		64809
j	Structured Products		224.4.11.138		62810		63810		64810
k	Miscellaneous		224.4.11.139		62811		63811		64811
l	IDEM		224.4.11.140		62812		63812		64812
m	IDEM		224.4.11.141		62813		63813		64813
q	EuroTLX		224.4.11.142		62814		63814		64814
r	EuroTLX		224.4.11.143		62815		63815		64815
s	EuroTLX		224.4.11.144		62816		63816		64816
z	TAH and MiFID		224.4.11.151		62823		63823		64823
Tertiary Feed									
h	MTA	194.169.5. 120	224.4.12.136	60400	62808	194.169 .5.106	63808	194.169 .5.104	64808
i	MTA and SEDEX		224.4.12.137		62809		63809		64809
j	Structured Products		224.4.12.138		62810		63810		64810
k	Miscellaneous		224.4.12.139		62811		63811		64811
q	EuroTLX		224.4.12.142		62814		63814		64814
r	EuroTLX		224.4.12.143		62815		63815		64815
s	EuroTLX		224.4.12.144		62816		63816		64816
z	TAH and MiFID		224.4.12.151		62823		63823		64823

5.3 Milan Production IP Address Ranges - Level 2 MBP

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
Primary Feed										
H	MTA	194.169.5.5 5	224.4.10.167	60400	62839	194.169 .5.37	63839	194.169 .5.35	64839	
I	MTA and SEDEX		224.4.10.168		62840		63840		64840	
J	Structured Products		224.4.10.169		62841		63841		64841	
K	Miscellaneous		224.4.10.170		62842		63842		64842	
L	IDEM		224.4.10.171		62843		63843		64843	
M	IDEM		224.4.10.172		62844		63844		64844	
Q	EuroTLX		224.4.10.173		62845		63845		64845	
R	EuroTLX		224.4.10.174		62846		63846		64846	
S	EuroTLX		224.4.10.175		62847		63847		64847	
Z	TAH and MiFID		224.4.10.182		62854		63854		64854	
Secondary Feed										
h	MTA	194.169.5.1 25	224.4.11.167	60400	62839	194.169 .5.102	63839	194.169 .5.100	64839	
i	MTA and SEDEX		224.4.11.168		62840		63840		64840	
j	Structured Products		224.4.11.169		62841		63841		64841	
k	Miscellaneous		224.4.11.170		62842		63842		64842	
l	IDEM		224.4.11.171		62843		63843		64843	
m	IDEM		224.4.11.172		62844		63844		64844	
q	EuroTLX		224.4.11.173		62845		63845		64845	
r	EuroTLX		224.4.11.174		62846		63846		64846	
s	EuroTLX		224.4.11.175		62847		63847		64847	
z	TAH and MiFID		224.4.11.182		62854		63854		64854	
Tertiary Feed										
h	MTA	194.169.5.12 0	224.4.12.167	60400	62839	194.169. 5.106	63839	194.169. 5.104	64839	
i	MTA and SEDEX		224.4.12.168		62840		63840		64840	
j	Structured Products		224.4.12.169		62841		63841		64841	
k	Miscellaneous		224.4.12.170		62842		63842		64842	
q	EuroTLX		224.4.12.173		62845		63845		64845	
f	EuroTLX		224.4.12.174		62846		63846		64846	
s	EuroTLX		224.4.12.175		62847		63847		64847	
z	TAH and MiFID		224.4.12.182		62854		63854		64854	

One product, infinite possibilities.

5.4 Milan Production IP Address Ranges - Level 2 Incremental (Full-depth)

Gro-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service		Replay Service		Recovery Service	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
H	MTA	194.169.5.5	224.4.10.237	60400	194.169 .5.37	62909	194.169 .5.35	63909	194.169 .5.35	64909
I	MTA and SEDEX		224.4.10.238			62910		63910		64910
J	Structured Products		224.4.10.239			62911		63911		64911
K	Miscellaneous		224.4.10.240			62912		63912		64912
L	IDEML		224.4.10.241			62913		63913		64913
M	IDEML		224.4.10.242			62914		63914		64914
Q	EuroTLX		224.4.10.243			62915		63915		64915
R	EuroTLX		224.4.10.244			62916		63916		64916
S	EuroTLX		224.4.10.245			62917		63917		64917
Z	TAH and MiFID		224.4.10.252			62924		63924		64924
Secondary Feed										
h	MTA	194.169.5.1	224.4.11.237	60400	194.169 .5.102	62909	194.169 .5.100	63909	194.169 .5.100	64909
i	MTA and SEDEX		224.4.11.238			62910		63910		64910
j	Structured Products		224.4.11.239			62911		63911		64911
k	Miscellaneous		224.4.11.240			62912		63912		64912
l	IDEML		224.4.11.241			62913		63913		64913
m	IDEML		224.4.11.242			62914		63914		64914
q	EuroTLX		224.4.11.243			62915		63915		64915
r	EuroTLX		224.4.11.244			62916		63916		64916
s	EuroTLX		224.4.11.245			62917		63917		64917
z	TAH and MiFID		224.4.11.252			62924		63924		64924
Tertiary Feed										
h	MTA	194.169.5.1	224.4.12.237	60400	194.169 .5.106	62909	194.169 .5.104	63909	194.169 .5.104	64909
i	MTA and SEDEX		224.4.12.238			62910		63910		64910
j	Structured Products		224.4.12.239			62911		63911		64911
k	Miscellaneous		224.4.12.240			62912		63912		64912
q	EuroTLX		224.4.12.243			62915		63915		64915
r	EuroTLX		224.4.12.244			62916		63916		64916
s	EuroTLX		224.4.12.245			62917		63917		64917
z	TAH and MiFID		224.4.12.252			62924		63924		64924

One product, infinite possibilities.

5.5 Milan Production IP Address Ranges - MiFID II Post Trade Channels

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service	Replay Service	Recovery Service	
					Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed								
H	MTA	194.169.5.5 5	224.4.0.129	60400	194.169 .5.37	62929	194.169 .5.35	63929
I	MTA and SEDEX		224.4.0.130			62930		63930
J	Structured Products		224.4.0.131			62931		64931
K	Miscellaneous		224.4.0.132			62932		64932
L	IDEM		224.4.0.133			62933		64933
M	IDEM		224.4.0.134			62934		64934
Q	EuroTLX		224.4.0.135			62935		64935
R	EuroTLX		224.4.0.136			62936		64936
S	EuroTLX		224.4.0.137			62937		64937
Z	TAH and MiFID		224.4.0.138			62938		64938
Secondary Feed								
h	MTA	194.169.5.1 25	224.4.1.129	60400	194.169 .5.102	62929	194.169 .5.100	63929
i	MTA and SEDEX		224.4.1.130			62930		64930
j	Structured Products		224.4.1.131			62931		64931
k	Miscellaneous		224.4.1.132			62932		64932
l	IDEM		224.4.1.133			62933		64933
m	IDEM		224.4.1.134			62934		64934
q	EuroTLX		224.4.1.135			62935		64935
r	EuroTLX		224.4.1.136			62936		64936
s	EuroTLX		224.4.1.137			62937		64937
z	TAH and MiFID		224.4.1.138			62938		64938
Tertiary Feed								
h	MTA	194.169.5.1 20	224.4.13.129	60400	194.169 .5.106	62929	194.169 .5.104	63929
i	MTA and SEDEX		224.4.13.130			62930		63930
j	Structured Products		224.4.13.131			62931		64931
k	Miscellaneous		224.4.13.132			62932		64932
q	EuroTLX		224.4.13.135			62935		64935
f	EuroTLX		224.4.13.136			62936		64936
g	EuroTLX		224.4.13.137			62937		64937
z	TAH and MiFID		224.4.13.138			62938		64938

One product, infinite possibilities.

5.6 Milan Production IP Address Ranges - Other Service Lines

Group-up	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Lite Service	Replay Service	Recovery Service			
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
N	EuroTLX Admin	194.169.5.5 5	224.4.10.225	60400	194.169	62897	194.169	63897	194.169	64897
O	FTSE Indices		224.4.10.224		.5.37	62896	.5.35	63896	.5.35	64898
P	Borsa Admin		224.4.10.226			62898		63898		
Secondary Feed										
n	EuroTLX Admin	194.169.5.1 25	224.4.11.225	60400	194.169	62897	194.169	63897	194.169	64897
o	FTSE Indices		224.4.11.224		.5.102	62896	.5.100	63896	.5.100	64898
p	Borsa Admin		224.4.11.226			62898		63898		
Tertiary Feed										
e	FTSE Indices	194.169.5.1 20	224.4.12.224 224.4.12.226	60400	194.169 .5.106	62896 62898	194.169 .5.104	63896 63898	194.169 .5.104	64898

5.5 Milan Production Replay and Recovery Service Parameters

	Description	Value
Replay Service	Maximum number of messages available to clients on replay services	65,000 messages
	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of replay requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests
Recovery Service	Maximum number of logins available to clients	3,000 logins/day
	Maximum number of recovery requests	5,000 requests/day
	Maximum number of concurrent outstanding requests queued	10 requests