



LSEG

LONDON STOCK EXCHANGE GROUP

GROUP TICKER PLANT

**GTP 004 -
PARAMETERS GUIDE**

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One product, **infinite possibilities.**

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Guide Disclaimer

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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:

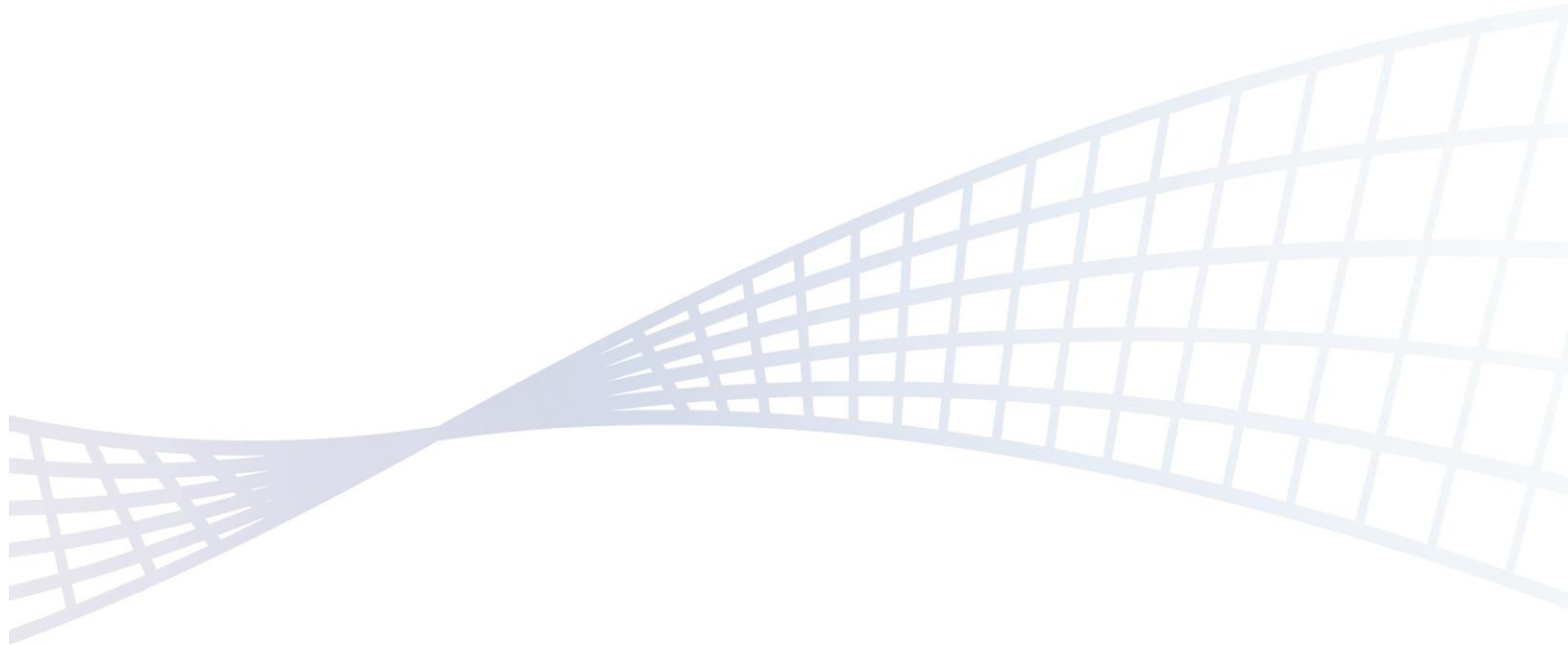
<https://www.lseg.com/areas-expertise/technology/group-technology/group-ticker-plant>

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
19.4	12 February 2018	Un-greyled 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
19.7	24 February 2020	2.6 Added the connectivity details for the new service for publishing Italian Indices. Renamed the existing service to state that it will publish only UK indices.
19.8	16 March 2020	3.1, 3.3, 3.5, 3.6 Updated the connectivity details for several Legacy CDS services. Added details for the new service for publishing Italian Indices. Renamed the existing service to state that it will publish only UK indices.
19.9	27 May 2020	2.6 – 3.6 – 5.6 EuroTLX Admin channel decommissioned
20	15 July 2020	3.2 – Corrected the IP Address for Channel L.
20.1	01 December 2020	All sections – Removed content related to Borsa Italiana and associated venues
20.2	01 February 2021	2.1, 3.1, 4.1 - L1 Incremental Service is now available for the Turquoise MTF
20.3	01 August 2021	2.7, 3.7, 4.7 – Added connectivity details for the Analytics service.

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



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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

Please contact the LSEG market data team for further information regarding data licensing for this service by emailing marketdata@lseg.com

Further information can also be found on our project websites:

<https://www.lseg.com/areas-expertise/technology/group-technology/group-ticker-plant>

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.

2.1 CDS 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										
A	FTSE 100	194.169.8.205	224.4.12.64	61400	194.169.8.222		194.169.8.220	53464	194.169.8.220	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
T	XLON		224.4.12.80					53480		54480
U	XPAR		224.4.12.81					53481		54481
V	XETR		224.4.12.82					53482		54482
W	XCSE, XHEL...		224.4.12.83					53483		54483
X	MTAA, XOSL...		224.4.12.84					53484		54484
Y	XAMS, XBRU...	224.4.12.85	53485	54485						
Secondary Feed										
a	FTSE 100	194.169.8.235	224.4.13.64	61450	194.169.8.252		194.169.8.250	53464	194.169.8.250	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
t	XLON		224.4.13.80					53480		54480
u	XPAR		224.4.13.81					53481		54481
v	XETR		224.4.13.82					53482		54482
w	XCSE, XHEL...		224.4.13.83					53483		54483
x	MTAA, XOSL...		224.4.13.84					53484		54484
y	XAMS, XBRU...	224.4.13.85	53485	54485						

2.2 CDS IP Address Ranges - Level 2 MBO

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										
A	FTSE 100	194.169.8.205	224.4.12.1	61400	194.169.8.222		194.169.8.220	53401	194.169.8.220	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
Secondary Feed										
a	FTSE 100	194.169.8.2	224.4.13.1	61450	194.169		194.169	53401	194.169	54401

b	FTSE 100	35	224.4.13.2		.8.252		.8.250	53402	.8.250	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

2.3 CDS IP Address Ranges - Level 2 MBP

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										
A	FTSE 100	194.169.8.205	224.4.12.32	61400	194.169.8.222		194.169.8.220	53432	194.169.8.220	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
Secondary Feed										
a	FTSE 100	194.169.8.235	224.4.13.32	61450	194.169.8.252		194.169.8.250	53432	194.169.8.250	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

2.4 CDS 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										
A	FTSE 100	194.169.8.205	224.4.12.102	61400	194.169.8.222		194.169.8.220	53502	194.169.8.220	54502
B	FTSE 100		224.4.12.103					53503		54503
C	FTSE 250		224.4.12.104					53504		54504
D	Structured Products		224.4.12.105					53505		54505
E	Miscellaneous		224.4.12.106					53506		54506
F	European		224.4.12.107					53507		54507
G	International		224.4.12.108					53508		54508
T	XLON		224.4.12.118					53518		54518
U	XPAR		224.4.12.119					53519		54519
V	XETR		224.4.12.120					53520		54520
W	XCSE, XHEL...		224.4.12.121					53521		54521
X	MTAA, XOSL...		224.4.12.122					53522		54522
Y	XAMS, XBRU...		224.4.12.123					53523		54523
1	SI Quotes		224.4.12.92					53492		54492

3	SI Quotes		224.4.12.94				53494		54494
Secondary Feed									
a	FTSE 100	194.169.8. 235	224.4.13.102	61450	194.169 .8.252		53502	194.169 .8.250	54502
b	FTSE 100		224.4.13.103				53503		54503
c	FTSE 250		224.4.13.104				53504		54504
d	Structured Products		224.4.13.105				53505		54505
e	Miscellaneous		224.4.13.106				53506		54506
f	European		224.4.13.107				53507		54507
g	International		224.4.13.108				53508		54508
t	XLON		224.4.13.118				53518		54518
u	XPAR		224.4.13.119				53519		54519
v	XETR		224.4.13.120				53520		54520
w	XCSE, XHEL...		224.4.13.121				53521		54521
x	MTAA, XOSL...		224.4.13.122				53522		54522
y	XMAS, XBRU...		224.4.13.123				53523		54523
5	SI Quotes						224.4.13.92		
7	SI Quotes		244.4.13.94				53494		54494

2.5 CDS IP Address Ranges - MiFID II Post Trade Channels

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										
A	FTSE 100	194.169.8.205	224.4.0.64	61400	194.169.8.222		194.169.8.220	53801	194.169.8.220	54801
B	FTSE 100		224.4.0.65					53802		54802
C	FTSE 250		224.4.0.66					53803		54803
D	Structured Products		224.4.0.67					53804		54804
E	Miscellaneous		224.4.0.68					53805		54805
F	European		224.4.0.69					53806		54806
G	International		224.4.0.70					53807		54807
T	XLON		224.4.0.80					53817		54817
U	XPAR		224.4.0.81					53818		54818
V	XETR		224.4.0.82					53819		54819
W	XCSE, XHEL...		224.4.0.83					53820		54820
X	MTAA, XOSL...		224.4.0.84					53821		54821
Y	XAMS, XBRU...		224.4.0.85					53822		54822
2	TRADEcho Trades		224.4.0.87					53824		54824
4	TRADEcho Trades	224.4.0.88	53825	54825						
Secondary Feed										
a	FTSE 100	194.169.8.235	224.4.1.64	61450	194.169.8.252		194.169.8.250	53801	194.169.8.250	54801
b	FTSE 100		224.4.1.65					53802		54802
c	FTSE 250		224.4.1.66					53803		54803
d	Structured Products		224.4.1.67					53804		54804
e	Miscellaneous		224.4.1.68					53805		54805
f	European		224.4.1.69					53806		54806
g	International		224.4.1.70					53807		54807
t	XLON		224.4.1.80					53817		54817
u	XPAR		224.4.1.81					53818		54818
v	XETR		224.4.1.82					53819		54819
w	XCSE, XHEL...		224.4.1.83					53820		54820
x	MTAA, XOSL...		224.4.1.84					53821		54821
y	XMAS, XBRU...		224.4.1.85					53822		54822
6	TRADEcho Trades		224.4.1.87					53824		54824
8	TRADEcho Trades	224.4.1.88	53825	54825						

2.6 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	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
O	FTSE Indices - UK	194.169.8.205	224.4.12.96	61400	194.169.8.222		194.169.8.220	53496	194.169.8.220	
Secondary Feed										
o	FTSE Indices - UK	194.169.8.235	224.4.13.96	61450	194.169.8.252		194.169.8.250	53496	194.169.8.250	

2.7 CDS IP Address Ranges - Analytics Channels

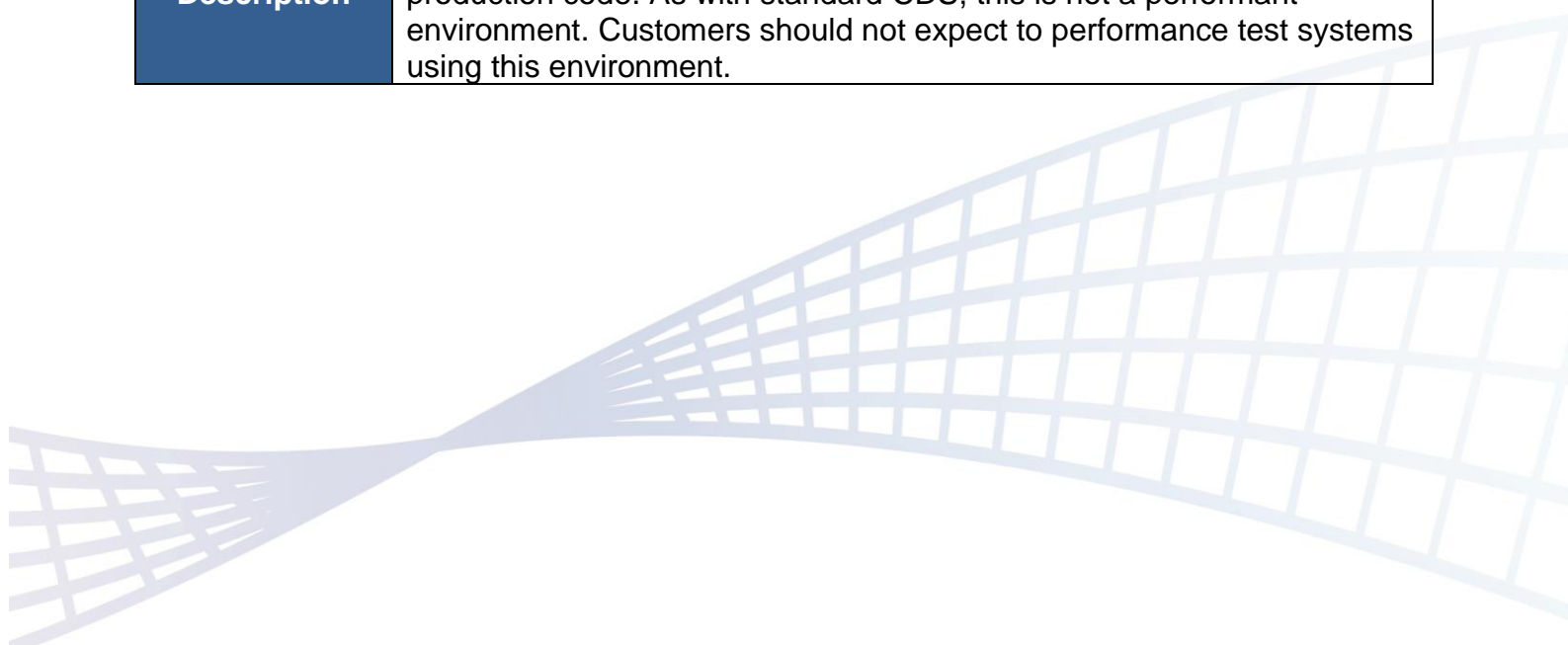
Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	GTP Live Service		Replay Service		Recovery Service	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
A	FTSE 100	194.169.8.205	224.4.0.102	61400	194.169.8.222		194.169.8.220	53851	194.169.8.220	54851
B	FTSE 100		224.4.0.103							54852
C	FTSE 250		224.4.0.104							54853
D	Structured Products		224.4.0.105							54854
E	Miscellaneous		224.4.0.106							54855
F	European		224.4.0.107							54856
G	International		224.4.0.108							54857
T	XLON		224.4.0.118							54867
U	XPAR		224.4.0.119							54868
V	XETR		224.4.0.120							54869
W	XCSE, XHEL...		224.4.0.121							54870
X	MTAA, XOSL...		224.4.0.122							54871
Y	XAMS, XBRU...		224.4.0.123							54872
Secondary Feed										
a	FTSE 100	194.169.8.235	224.4.1.102	61450	194.169.8.252		194.169.8.250	53851	194.169.8.250	54851
b	FTSE 100		224.4.1.103							54852
c	FTSE 250		224.4.1.104							54853
d	Structured Products		224.4.1.105							54854
e	Miscellaneous		224.4.1.106							54855
f	European		224.4.1.107							54856
g	International		224.4.1.108							54857
t	XLON		224.4.1.118							54867
u	XPAR		224.4.1.119							54868
v	XETR		224.4.1.120							54869
w	XCSE, XHEL...		224.4.1.121							54870
x	MTAA, XOSL...		224.4.1.122							54871
y	XMAS, XBRU...		224.4.1.123							54872

2.8 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	Extranex, 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.



3.1 Legacy CDS 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										
A	FTSE 100	94.46.104.2 09	224.4.16.64	61400	94.46.1 04.195		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
T	XLON		224.4.16.58					53458		54458
U	XPAR		224.4.16.59					53459		54459
V	XETR		224.4.16.60					53460		54460
W	XCSE, XHEL, XMCE, XSTO, XSWX and XVTX		224.4.16.61					53461		54461
X	MTAA, XOSL, WBAH, XDUB, ARCX, XBUD, XNGS, XNMS, XNYS and XPRA		224.4.16.62					53462		54462
Y	XMAS, XBRU, XLIS and XLUX		224.4.16.63					53463		54463
Secondary Feed										
a	FTSE 100	94.46.104.2 17	224.4.17.64	61450	94.46.1 04.203		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
t	XLON		224.4.17.58					53458		54458
u	XPAR		224.4.17.59					53459		54459
v	XETR		224.4.17.60					53460		54460
w	XCSE, XHEL, XMCE, XSTO, XSWX and XVTX		224.4.17.61					53461		54461
x	MTAA, XOSL, WBAH, XDUB, ARCX, XBUD, XNGS, XNMS, XNYS and XPRA		224.4.17.62					53462		54462
y	XMAS, XBRU, XLIS and XLUX		224.4.17.63					53463		54463

3.2 Legacy CDS IP Address Ranges - Level 2 MBO

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										
A	FTSE 100	94.46.104.209	224.4.16.1	61400	94.46.104.195		94.46.104.194	53401	94.46.104.194	54401
B	FTSE 100		224.4.16.2					53402		54402
C	FTSE 250		224.4.16.3					53403		54403
D	Structured Products		224.4.16.4					53404		54404
E	Miscellaneous		224.4.16.5					53405		54405
F	European		224.4.16.6					53406		54406
G	International		224.4.16.7					53407		54407
Secondary Feed										
a	FTSE 100	94.46.104.217	224.4.17.1	61450	94.46.104.203		94.46.104.202	53401	94.46.104.202	54401
b	FTSE 100		224.4.17.2					53402		54402
c	FTSE 250		224.4.17.3					53403		54403
d	Structured Products		224.4.17.4					53404		54404
e	Miscellaneous		224.4.17.5					53405		54405
f	European		224.4.17.6					53406		54406
g	International		224.4.17.7					53407		54407

3.3 Legacy CDS IP Address Ranges - Level 2 MBP

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										
A	FTSE 100	94.46.104.209	224.4.16.32	61400	94.46.104.195		94.46.104.194	53432	94.46.104.194	54432
B	FTSE 100		224.4.16.33					53433		54433
C	FTSE 250		224.4.16.34					53434		54434
D	Structured Products		224.4.16.35					53435		54435
E	Miscellaneous		224.4.16.36					53436		54436
G	International		224.4.16.37					53437		54437
Secondary Feed										
a	FTSE 100	94.46.104.217	224.4.17.32	61450	94.46.104.203		94.46.104.202	53432	94.46.104.202	54432
b	FTSE 100		224.4.17.33					53433		54433
c	FTSE 250		224.4.17.34					53434		54434
d	Structured Products		224.4.17.35					53435		54435
e	Miscellaneous		224.4.17.36					53436		54436
g	International		224.4.17.37					53437		54437

3.4 Legacy CDS 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											
A	FTSE 100	94.46.104.209	224.4.16.102	61400	94.46.104.195		94.46.104.194		53502	94.46.104.194	54502
B	FTSE 100		224.4.16.103						53503		54503
C	FTSE 250		224.4.16.104						53504		54504
D	Structured Products		224.4.16.105						53505		54505
E	Miscellaneous		224.4.16.106						53506		54506
F	European		224.4.16.107						53507		54507
G	International		224.4.16.108						53508		54508
T	XLON		224.4.16.118						53518		54518
U	XPAR		224.4.16.119						53519		54519
V	XETR		224.4.16.120						53520		54520
W	XCSE, XHEL...		224.4.16.121						53521		54521
X	MTAA, XOSL...		224.4.16.122						53522		54522
Y	XAMS, XBRU...		224.4.16.123						53523		54523
1	SI Quotes		224.4.16.92						53492		54492
3	SI Quotes	224.4.16.94	53494	54494							
Secondary Feed											
a	FTSE 100	94.46.104.217	224.4.17.102	61450	94.46.104.203		94.46.104.202		53502	94.46.104.202	54502
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
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
y	XMAS, XBRU...		224.4.17.123						53523		54523
5	SI Quotes		224.4.17.92						53492		54492
7	SI Quotes	224.4.17.94	53494	54494							

3.5 Legacy CDS IP Address Ranges - MiFID II Post Trade Channels

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											
A	FTSE 100	94.46.104.209	224.4.16.129	61400	94.46.104.195		94.46.104.194		53801	94.46.104.194	54801
B	FTSE 100		224.4.16.130						53802		54802
C	FTSE 250		224.4.16.131						53803		54803
D	Structured Products		224.4.16.132						53804		54804
E	Miscellaneous		224.4.16.133						53805		54805
F	European		224.4.16.134						53806		54806
G	International		224.4.16.135						53807		54807
T	XLON		224.4.16.145						53817		54817

U	XPAR		224.4.16.146					53818		54818
V	XETR		224.4.16.147					53819		54819
W	XCSE, XHEL...		224.4.16.148					53820		54820
X	MTAA, XOSL...		224.4.16.149					53821		54821
Y	XAMS, XBRU...		224.4.16.150					53822		54822
2	TRADEcho Trades		224.4.16.152					53824		54824
4	TRADEcho Trades		224.4.16.153					53825		54825
Secondary Feed										
a	FTSE 100	94.46.104. 217	224.4.17.129	61450	94.46.1 04.203		94.46.1 04.202	53801	94.46.1 04.202	54801
b	FTSE 100		224.4.17.130					53802		54802
c	FTSE 250		224.4.17.131					53803		54803
d	Structured Products		224.4.17.132					53804		54804
e	Miscellaneous		224.4.17.133					53805		54805
f	European		224.4.17.134					53806		54806
g	International		224.4.17.135					53807		54807
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
6	TRADEcho Trades		224.4.17.152					53824		54824
8	TRADEcho Trades		224.4.17.153					53825		54825

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	
					Virtual-IP Address	Port	Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed										
		94.46.104.2		61400	94.46.1		94.46.1		94.46.1	
O	FTSE Indices - UK	09	224.4.16.96		04.195		04.194	53496	04.194	
Secondary Feed										
		94.46.104.2		61450	94.46.1		94.46.1		94.46.1	
o	FTSE Indices - UK	17	224.4.17.96		04.203		04.202	53496	04.202	

3.7 Legacy CDS IP Address Ranges - Analytics Channels

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										
A	FTSE 100	94.46.104.209	224.4.16.180	61400	94.46.104.195		94.46.104.194	53301	94.46.104.194	54301
B	FTSE 100		224.4.16.181					53302		54302
C	FTSE 250		224.4.16.182					53303		54303
D	Structured Products		224.4.16.183					53304		54304
E	Miscellaneous		224.4.16.184					53305		54305
F	European		224.4.16.185					53306		54306
G	International		224.4.16.186					53307		54307
T	XLON		224.4.16.187					53308		54308
U	XPAR		224.4.16.188					53309		54309
V	XETR		224.4.16.189					53310		54310
W	XCSE, XHEL...		224.4.16.190					53311		54311
X	MTAA, XOSL...		224.4.16.191					53312		54312
Y	XAMS, XBRU...		224.4.16.192					53313		54313
Secondary Feed										
a	FTSE 100	94.46.104.217	224.4.17.180	61450	94.46.104.203		94.46.104.202	53301	94.46.104.202	54301
b	FTSE 100		224.4.17.181					53302		54302
c	FTSE 250		224.4.17.182					53303		54303
d	Structured Products		224.4.17.183					53304		54304
e	Miscellaneous		224.4.17.184					53305		54305
f	European		224.4.17.185					53306		54306
g	International		224.4.17.186					53307		54307
t	XLON		224.4.17.187					53308		54308
u	XPAR		224.4.17.188					53309		54309
v	XETR		224.4.17.189					53310		54310
w	XCSE, XHEL...		224.4.17.190					53311		54311
x	MTAA, XOSL...		224.4.17.191					53312		54312
y	XMAS, XBRU...		224.4.17.192					53313		54313

3.8 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	Extranex, NSP, Customer-Managed Connectivity (CMC), Exchange Hosting – London. BlitNet, 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).

4.1 London Production IP Address Ranges - Level 1

	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Replay Service		Recovery Service	
						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
	T	XLON		224.4.10.80			63880		64880
	U	XPAR		224.4.10.81			63881		64881
	V	XETR		224.4.10.82			63882		64882
	W	XCSE, XHEL...		224.4.10.83			63883		64883
	X	MTAA, XOSL...		224.4.10.84			63884		64884
Y	XAMS, XBRU...	224.4.10.85	63885	64885					
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
	t	XLON		224.4.11.80			63880		64880
	u	XPAR		224.4.11.81			63881		64881
	v	XETR		224.4.11.82			63882		64882
	w	XCSE, XHEL...		224.4.11.83			63883		64883
	x	MTAA, XOSL...		224.4.11.84			63884		64884
y	XAMS, XBRU...	224.4.11.85	63885	64885					

4.2 London Production IP Address Ranges - Level 2 MBO

	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Replay Service		Recovery Service	
						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		

One product, **infinite possibilities.**

	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

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	Port	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

4.4 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	Port	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

One product, **infinite possibilities.**

	Y	XAMS, XBRU...		224.4.10.123			63923		64923
	1	New SI Quotes		224.4.10.92			63892		64892
	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
	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	New SI Quotes					224.4.11.92		
7	New SI Quotes		224.4.11.94		63894		64894		

*For SI Quoting, use 'New SI Quotes'

4.5 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	
						Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed	A	FTSE 100	194.169.4.55	224.4.0.1	60400	194.169.4.35	63931	194.169.4.35	64931
	B	FTSE 100		224.4.0.2			63932		64932
	C	FTSE 250		224.4.0.3			63933		64933
	D	Structured Products		224.4.0.4			63934		64934
	E	Miscellaneous		224.4.0.5			63935		64935
	F	European		224.4.0.6			63936		64936
	G	International		224.4.0.7			63937		64937
	T	XLON		224.4.0.8			63938		64938
	U	XPAR		224.4.0.9			63939		64939
	V	XETR		224.4.0.10			63940		64940
	W	XCSE, XHEL...		224.4.0.11			63941		64941
	X	MTAA, XOSL...		224.4.0.12			63942		64942
	Y	XAMS, XBRU...		224.4.0.13			63943		64943
	2	TRADEcho Trades		224.4.0.14			63944		64944
	4	TRADEcho Trades		224.4.0.15			63945		64945
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.1.1	60400	194.169.4.100	63931	194.169.4.100	64931
	b	FTSE 100		224.4.1.2			63932		64932
	c	FTSE 250		224.4.1.3			63933		64933
	d	Structured Products		224.4.1.4			63934		64934
	e	Miscellaneous		224.4.1.5			63935		64935
	f	European		224.4.1.6			63936		64936
	g	International		224.4.1.7			63937		64937

	t	XLON		224.4.1.8			63938		64938
	u	XPAR		224.4.1.9			63939		64939
	v	XETR		224.4.1.10			63940		64940
	w	XCSE, XHEL...		224.4.1.11			63941		64941
	x	MTAA, XOSL...		224.4.1.12			63942		64942
	y	XAMS, XBRU...		224.4.1.13			63943		64943
	6	TRADEcho Trades		224.4.1.14			63944		64944
	8	TRADEcho Trades		224.4.1.15			63945		64945

4.6 London Production IP Address Ranges - Other Service Lines

	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Replay Service		Recovery Service	
						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	
Secondary Feed	o	FTSE Indices	194.169.4.125	224.4.11.96	60400	194.169.4.100	63896	194.169.4.100	

4.7 London Production IP Address Ranges - Analytics Channels

	Market Data Group	Multicast Channel	Multicast Source IP Address	Multicast Address	Port	Replay Service		Recovery Service	
						Virtual-IP Address	Port	Virtual-IP Address	Port
Primary Feed	A	FTSE 100	194.169.4.55	224.4.0.40	60400	194.169.4.35	63960	194.169.4.35	64960
	B	FTSE 100		224.4.0.41			63961		64961
	C	FTSE 250		224.4.0.42			63962		64962
	D	Structured Products		224.4.0.43			63963		64963
	E	Miscellaneous		224.4.0.44			63964		64964
	F	European		224.4.0.45			63965		64965
	G	International		224.4.0.46			63966		64966
	T	XLON		224.4.0.56			63976		64976
	U	XPAR		224.4.0.57			63977		64977
	V	XETR		224.4.0.58			63978		64978
	W	XCSE, XHEL...		224.4.0.59			63979		64979
	X	MTAA, XOSL...		224.4.0.60			63980		64980
Y	XAMS, XBRU...	224.4.0.61	63981	64981					
Secondary Feed	a	FTSE 100	194.169.4.125	224.4.1.40	60400	194.169.4.100	63960	194.169.4.100	64960
	b	FTSE 100		224.4.1.41			63961		64961
	c	FTSE 250		224.4.1.42			63962		64962
	d	Structured Products		224.4.1.43			63963		64963
	e	Miscellaneous		224.4.1.44			63964		64964
	f	European		224.4.1.45			63965		64965
	g	International		224.4.1.46			63966		64966
	t	XLON		224.4.1.56			63976		64976
	u	XPAR		224.4.1.57			63977		64977
	v	XETR		224.4.1.58			63978		64978
	w	XCSE, XHEL...		224.4.1.59			63979		64979
	x	MTAA, XOSL...		224.4.1.60			63980		64980
y	XAMS, XBRU...	224.4.1.61	63981	64981					

4.8 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