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PREFACE

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DOCUMENT HISTORY

The following table provides a description of all changes to this document.

VERSION NO.	DATE	CHANGE DESCRIPTION
1.0	September 2016	Optiq® Market Data Gateway Production and Disaster Recovery (DR) Environment feed configuration details.
1.1	March 2017	Retail Matching Facility renamed into Best of Book. BBBO changed into FBMU for Equities/Funds/Fixed Income and Bourse de Luxembourg. Change of the layout of the feed configuration. Addition of the DR Source IP Addresses for Feed A and B.
1.2	March 2017	Corrected made to Environment field, now correctly showing PROD.
1.3	May 2017	Corrected Euronext Indices channel, Index Options Netherlands Partition 2 and Index Options France Partition 2.
1.4	June 2017	Correction Equity and Index Futures Netherlands 10G partition 2 and Commodity Derivatives Snapshot Partition 1.
1.5	November 2017	New Channels added for APA SI Quotes and APA Trade Publication to Optiq Segment – 10, Trade Reporting and Publication.
1.6	June 2018	Removal of MDG Set Of Channels ID 12 – Trade Reporting And Publication
1.7	July 2018	New Channels added for ETF Access to Optiq Segment – 2, Funds. Removal of MDG Set Of Channels ID 10 – Societe Generale Systematic Internaliser (SI)
1.8	July 2018	New Channels added for Best of Book (RMF) Funds.
1.9	July 2018	MDG Set of Channels 9 and 15 renamed for Euronext Dublin Integration.
2.0	November 2018	New Channels added for Euronext Block

VERSION NO.	DATE	CHANGE DESCRIPTION
2.1	November 2018	Changes made to Derivatives Feed Configuration for Optiq Step 3. MDG Set of Channels 18, 19 and 28 removed. Introduction of new Optiq Segments for Equity Derivatives, Index Derivatives and Financial Derivatives. MDG Set of Channels 20 to 26 renamed.
2.2	January 2019	Changed the amount of Partitions for Equity Derivatives from 2 to 3 and For Index Derivatives from 2 to 1.
2.3	October 2019	Removal of the Derivatives 100M FBMU channel IDs.
2.4	January 2020	Addition of Optiq Segment 16 for the Irish Bonds and Funds
2.5	February 2020	Addition of MDG Set of Channels 10 for Equities Norway and 12 for Fixed Income Nordic ABM
2.6	July 2021	Addition of MDG Set of Channels 34 for Forex
2.7	October 2021	Adding 1 Warrants partition configuration
3.0	December 2021	New target specifications of the new Euronext Data Centre in Aruba Bergamo Italy
3.1	April 2022	Disaster Recovery IP addresses changed
5.16.0	June 2022	**change of version numbering logic** Addition of new cash markets EQUities and ETFs/Funds sets-of-channels for Borsa Italiana integration: “18” (Equities Italy), “45” (Italy GEM), “39” (Italy ETF plus), “19” (Italy TAH)
5.18.0	September 2022	Adjustment of naming for MDG Set of Channels “19”, “39” and “45” Decommissioning of FBOU.100M Real Time for MDG Set of Channels “1” and “32” Decommissioning of FBMU.100M Real Time for MDG Set of Channels “4”
5.23.0	March 2023	Addition of new set of channels for Borsa Italiana integration: “40” (Fixed Income Italy – MOT/ExtraMOT), “41” (Warrants and Certificates Italy (Sedex)) “42” (Fixed Income ETLX (Bond-X)), “43” (Warrants and Certificates ETLX (Cert-X)) and “44” (Equities ETLX)
5.23.1	March 2023	Correction of Partition IDs for: - MDG Set of Channels ID 40 – FBOU – 1G - MDG Set of Channels ID 41 – FBMU – 1G - MDG Set of Channels ID 43 – FBMU
5.23.2	April 2023	Correction of the following Partition IDs: - MDG Set of Channels ID 41 – FBMU Snapshot channel -> Missing 100M FBMU Snapshot channel - MDG Set of Channels ID 43 – FBMU Snapshot channel -> Deletion of incorrect real-time 1G FBMU channel
5.23.3	May 2023	- Correction on a typo for several IP addresses: in the last 3 digits of IP addresses it should not start with ‘0’. Example: ‘224.0.212.042’ is replaced by ‘224.0.212.42 - Mention to ‘SFTI’ removed as it is replaced by ‘CMC’ since the migration
5.28.0	June 2023	- Addion of new MDG Set of Channels IDs: 28 (Index Futures Italy), 36 (Equity Derivatives Italy) and 37 (Index Options Italy)

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VERSION NO.	DATE	CHANGE DESCRIPTION
3565.32.0	February 2024	- Removal of Optiq Segment 15 (Forex) and the corresponding MDG Set of Channel ID 34 (Forex) which is not in used - Removal of 100M FBMU in Real Time for MDG Set of Channels IDs 16, 20, 21, 22, 23, 24, 25, 26, 27, 28, 36 and 37
5.353.0	January 2025	- Addition of new MDG Set of Channels IDs: 38 - Commodity Energies (Power)
5.355.0	April 2025	- Removal of Optiq Segment 10 (Trade Reporting and Publication Real- Time and Snapshot Configuration) and the corresponding MDG Set of Channels IDs 29 and 30 (APA SI Quotes and APA Trade Publication) which are not used
5.356.0	May 2025	- Removal of [ETFP] MIC from "MDG Set Of Channels ID" = 39 - Addition of [ETFP] MIC to "MDG Set Of Channels ID" = 1 - In Optiq Segment 2, Updated title for "MDG Set Of Channels ID" = 39 to ATFX
6.361.0	October 2025	- Addition of new "MDG Set of Channels ID" = 46 (Equities IPO France)
6.370.0	September 2026	- Reviewed formatting of the document - Removed reference to Financial Derivatives / Currency Derivatives, decommissioned - Removed MDG set of Channels 32 – ETF Access, decommissioned - Aligned values '28 Index Futures Italy' and '37 Index Options Italy' in Optiq Segments, Partitions and MDG Set of Channels
6.370.1	November 2026	- Addition of new Euronext ATHENS channel "MDG Set of Channels 51" - Addition of new Euronext ATHENS channel "MDG Set of Channels 50" - Addition of new Euronext ATHENS channel "MDG Set of Channels 52" - Addition of new Euronext ATHENS channel "MDG Set of Channels 53" - Removal of MDG set of Channels 33, Euronext Block, decommisioned

REFERENCE MATERIAL

The following document, which either should be read in conjunction with this document or which provide other relevant information for the user:

- Optiq MDG Messages - Interface Specification - Euronext Cash and Derivatives Markets

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FURTHER INFORMATION

- For additional information please visit: www.euronext.com/optiq

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1. INTRODUCTION

This document provides all multicast addresses required to access the Euronext Optiq® Market Data Gateway Production and Disaster Recovery (DR).

The Euronext Optiq® Market Data Gateway Production environment (PROD) is located in Bergamo and the Disaster Recovery (DR) environment is located at St. Denis. The Production Primary (P) and Secondary (S) Source IP Address ranges are provided in this document for the live and standby systems as part of the High Availability mechanism.

Customers are requested to allow the Production Primary, Production Secondary and Disaster Recovery (DR) Source IP Address ranges through their Firewalls.

With the XML Standing Data files for the different Optiq Segments, customers will be able to map which instruments are available in which channel. The Optiq MDG feed configuration can be found at the end of each Standing Data file available and these will be provided on a daily basis in XML format. It is required to use the feed configuration details as part of the standing data files to connect to the feed on a daily basis.

In case a new partition is added to an Optiq Segment, customers are required to adapt to this type of change using the Optiq MDG Standing Data files that include the feed configuration details.

1.1 OPTIQ SEGMENTS, PARTITIONS AND MDG SET OF CHANNELS

Below you will find an overview of the available Optiq Segments, the number of partitions per Optiq Segment and the MDG Set Of Channels ID and Name that are part of each Optiq Segment. The Optiq Segments listed in the below table are also available in the real-time Standing Data (1007) messages and Contract Standing Data (1013) messages and also available in Standing Data files.

Optiq Segment	Number of Partitions	MDG Set of Channels ID	MDG Set of Channels Name
1. Equities	4	6	Equities Netherlands
		5	Equities France
		7	Equities Belgium
		8	Equities Portugal
		9	Equities Dublin
		10	Equities Norway
		11	Best of Book (RMF)
		18	Equities Italy [MTAA, MIVX, EXGM]
		45	Italy GEM [BGEM]
		51	Equities Greece
2. Funds	1	1	Funds Netherlands, France, Belgium, Portugal, Norway, Ireland, Italy [ETFP]
		39	Funds Italy [ATFX]
		31	Best of Book (RMF) Funds
		50	Funds ETF Greece
3. Fixed Income	1	2	Fixed Income
		12	Fixed Income Nordic ABM

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Optiq Segment	Number of Partitions	MDG Set of Channels ID	MDG Set of Channels Name
		40	Fixed Income Italy (MOT/ExtraMOT)
		42	Fixed Income ETLX (Bond-X)
4. Warrants and Certificates	2	4	Warrants and Certificates
		41	Warrants and Certificates Italy (SEDEX)
		43	Warrants and Certificates ETLX (Cert-X)
5. Bourse de Luxembourg	1	3	Bourse De Luxembourg
9. Indices	1	13	Euronext Indices
		14	Euronext iNAVs
		15	Euronext Dublin Indices
14. Euronext Block	1		
		19	Italy TAH [XTAH][1]
		46	Equities IPO France[2]
16. Irish Bonds & Funds	1	35	Euronext Dublin Bonds and Funds
8. Commodity Derivatives	1	16	Commodity Derivatives
	1	38	Commodity Energies (Power)
11. Index Derivatives	1	23	Index Options France
		24	Index Options Netherlands
		25	Index Derivatives Other
		26	Index Futures France
		27	Index Futures Netherlands
		28	Index Futures Italy
		37	Index Options Italy
		53	Index Derivatives Greece
12. Equity Derivatives	3	20	Equity Derivatives France
		21	Equity Derivatives Netherlands
		22	Equity Derivatives Other
		52	Equity Derivatives Greece

1.2 CHANNEL TYPES AND CHANNEL IDS

The Channel Types and Channel ID's that are available to each customer depend on the available bandwidth on customer connections to the CMC Network and the services that were selected in the connectivity order

[1] While TAH -trading after hours- concerns equities instruments, it is hosted for technical reasons in the BLK (Blocks) Optiq segment
[2] While Equities IPO France concerns equities instruments, it is hosted for technical reasons in the BLK (Blocks) Optiq segment

form. Depending on the Asset Class, the following Optiq MDG channel types are made available to customers:

1. Pre-trade
    a. BBBO – Best Bid and Offer
    b. FBMU – Full Book by Price (using Market Update message) (includes Best Bid and Best Offer)
    c. FBOU – Full Book by Order (using Order Update message) (includes Best Bid and Best Offer)
2. Post Trade – REFT –Reference Data and Full Trade Information
3. Indices – REFI – Index Reference Data and Index messages
4. Irish Bonds & Funds – IBFR - Irish Bonds & Funds Reference Data
5. Euronext Blocks – EBLK – Blocks market segment data

Please read chapter **2.1 TYPE OF MARKET DATA CHANNELS** of the Euronext Cash and Derivatives Markets. – Optiq MDG Messages - Interface Specification for more details.

1.3 ADDITION OF A NEW PARTITION

The Channel ID contains 5 numbers and is provided as a field in the Optiq MDG packet header.

1. The first number on the left is used to identify if the channel is a real-time channel (1) or snapshot (2)
2. The second number is n= partition number -1, with n=0 for the first partition, n=1 for the second partition, etc.
3. The last three number xxx represent the last numbers on the right used for the Multicast Group IP.

Each partition as part of an Optiq Segment has a Feed A and a Feed B and uses a unique Source IP address from the ranges as specified below:

Feed A/B	Feed A	Feed B
Rendez-vous Point on Colocation	212.107.67.240	212.107.67.241
Rendez-vous Point on CMC	212.107.67.248	212.107.67.249
Primary IP Address	212.107.93.0/24	212.107.94.0/24
Secondary IP Address	Same as above	Same as above
Disaster Recovery IP Address	212.197.240.0/24	212.197.241.0/24

Customers are required to allow the whole range as specified above through their Firewalls to allow for the addition of a new partition within an Optiq Segment. In case of a new partition

1. A new Source IP will be used for the new partition
2. The Multicast Group IP Addresses for Feed A and B remain unchanged for the new partition
3. A new Channel ID is defined as 1(n)xxx, which is equal to the ports used for the new partition.

The Multicast Group IP addresses for Real-time and Snapshot, for Feed and B are:

Environment	Channel ID	Real-Time/Snapshot	Multicast Group Feed A	Multicast Group Feed B
Production	1(n)xxx	Real-Time	224.0.208.0/24	224.0.209.0/24
	2(n)xxx	Snapshot	224.0.210.0/24	224.0.211.0/24

2. OPTIQ SEGMENT – 1. EQUITIES REAL-TIME AND SNAPSHOT CONFIGURATION

2.1 MDG SET OF CHANNELS ID 6 – EQUITIES NETHERLANDS

Environment	PROD	MDGSetOfChannels ID	6
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Netherlands

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.120 224.0.209.120	10120	11120	12120	13120
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.120 224.0.211.120	20120	21120	22120	23120

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.121 224.0.209.121	10121	11121	12121	13121
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.122 224.0.209.122	10122	11122	12122	13122
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.121 224.0.211.121	20121	21121	22121	23121

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.123 224.0.209.123	10123	11123	12123	13123
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.124 224.0.209.124	10124	11124	12124	13124
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.125 224.0.209.125	10125	11125	12125	13125
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.123 224.0.211.123	20123	21123	22123	23123

2.2 MDG SET OF CHANNELS ID 5 – EQUITIES FRANCE

Environment	PROD	MDGSetOfChannels ID	5
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities France

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.110 224.0.209.110	10110	11110	12110	13110
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.110 224.0.211.110	20110	21110	22110	23110

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.111 224.0.209.111	10111	11111	12111	13111
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.112 224.0.209.112	10112	11112	12112	13112
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.111 224.0.211.111	20111	21111	22111	23111

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.113 224.0.209.113	10113	11113	12113	13113
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.114 224.0.209.114	10114	11114	12114	13114
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.115 224.0.209.115	10115	11115	12115	13115
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.113 224.0.211.113	20113	21113	22113	23113

2.3 MDG SET OF CHANNELS ID 7 – EQUITIES BELGIUM (INCLUDING PUBLIC AUCTION MARKET)

Environment	PROD	MDGSetOfChannels ID	7
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Belgium (Including Public Auction Market)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.100 224.0.209.100	10100	11100	12100	13100
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.100 224.0.211.100	20100	21100	22100	23100

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.101 224.0.209.101	10101	11101	12101	13101
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.102 224.0.209.102	10102	11102	12102	13102
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.101 224.0.211.101	20101	21101	22101	23101

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.103 224.0.209.103	10103	11103	12103	13103
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.104 224.0.209.104	10104	11104	12104	13104
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.103 224.0.211.103	20103	21103	22103	23103

2.4 MDG SET OF CHANNELS ID 8 – EQUITIES PORTUGAL

Environment	PROD	MDGSetOfChannels ID	8
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Portugal

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.105 224.0.209.105	10105	11105	12105	13105
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.105 224.0.211.105	20105	21105	22105	23105

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.106 224.0.209.106	10106	11106	12106	13106
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.107 224.0.209.107	10107	11107	12107	13107
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.106 224.0.211.106	20106	21106	22106	23106

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.108 224.0.209.108	10108	11108	12108	13108
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.109 224.0.209.109	10109	11109	12109	13109
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.108 224.0.211.108	20108	21108	22108	23108

2.5 MDG SET OF CHANNELS ID 9 – EQUITIES IRELAND

Environment	PROD	MDGSetOfChannels ID	9
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Ireland

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.165	10165	11165	12165	13165
Multicast Group IP Feed B	224.0.209.165				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.165	20165	21165	22165	23165
Multicast Group IP Feed B	224.0.211.165				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.166	10166	11166	12166	13166
Multicast Group IP Feed B	224.0.209.166				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.167	10167	11167	12167	13167
Multicast Group IP Feed B	224.0.209.167				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.166	20166	21166	22166	23166
Multicast Group IP Feed B	224.0.211.166				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.168	10168	11168	12168	13168
Multicast Group IP Feed B	224.0.209.168				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.169	10169	11169	12169	13169
Multicast Group IP Feed B	224.0.209.169				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.168	20168	21168	22168	23168
Multicast Group IP Feed B	224.0.211.168				

2.6 MDG SET OF CHANNELS ID 10 – EQUITIES NORWAY

Environment	PROD	MDGSetOfChannels ID	10
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Norway

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.85 224.0.209.85	10085	11085	12085	13085
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.85 224.0.211.85	20085	21085	22085	23085

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.86 224.0.209.86	10086	11086	12086	13086
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.87 224.0.209.87	10087	11087	12087	13087
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.86 224.0.211.86	20086	21086	22086	23086

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.88 224.0.209.88	10088	11088	12088	13088
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.89 224.0.209.89	10089	11089	12089	13089
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.88 224.0.211.88	20088	21088	22088	23088

2.7 MDG SET OF CHANNELS ID 11 – BEST OF BOOK (RMF)

Environment	PROD	MDGSetOfChannels ID	11
Optiq Segment name	Equities	MDGSetOfChannelsName	Best of Book (RMF)

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.138 224.0.209.138	10138	11138	12138	13138
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.139 224.0.209.139	10139	11139	12139	13139
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.138 224.0.211.138	20138	21138	22138	23138

2.8 MDG SET OF CHANNELS ID 18 – EQUITIES ITALY

Environment	PROD	MDGSetOfChannels ID	18
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Italy

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.75 224.0.209.75	10075	11075	12075	13075
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.75 224.0.211.75	20075	21075	22075	23075

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.76 224.0.209.76	10076	11076	12076	13076
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.77 224.0.209.77	10077	11077	12077	13077
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4

Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.76 224.0.211.76	20076	21076	22076	23076

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.126 224.0.209.126	10126	11126	12126	13126
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.127 224.0.209.127	10127	11127	12127	13127
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.126 224.0.211.126	20126	21126	22126	23126

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.78 224.0.209.78	10078	11078	12078	13078
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.79 224.0.209.79	10079	11079	12079	13079
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.80 224.0.209.80	10080	11080	12080	13080
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.78 224.0.211.78	20078	21078	22078	23078

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2.9 MDG SET OF CHANNELS ID 44 – EQUITIES ETLX

Environment	PROD	MDGSetOfChannels ID	44
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities ETLX

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.30	10030	11030	12030	13030
Multicast Group IP Feed B	224.0.209.30				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.30	20030	21030	22030	23030
Multicast Group IP Feed B	224.0.211.30				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.33	10033	11033	12033	13033
Multicast Group IP Feed B	224.0.209.33				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.34	10034	11034	12034	13034
Multicast Group IP Feed B	224.0.209.34				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.33	20033	21033	22033	23033
Multicast Group IP Feed B	224.0.211.33				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.31	10031	11031	12031	13031
Multicast Group IP Feed B	224.0.209.31				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.32	10032	11032	12032	13032
Multicast Group IP Feed B	224.0.209.32				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.31	20031	21031	22031	23031
Multicast Group IP Feed B	224.0.211.31				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.35				

Multicast Group IP Feed B	224.0.209.35	10035	11035	12035	13035
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A	224.0.208.36	10036	11036	12036	13036
Multicast Group IP Feed B	224.0.209.36				
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A	224.0.210.35	20035	21035	22035	23035
Multicast Group IP Feed B	224.0.211.35				

2.10 MDG SET OF CHANNELS ID 45 – GLOBAL EQUITY MARKET

Environment	PROD	MDGSetOfChannels ID	45
Optiq Segment name	Equities	MDGSetOfChannelsName	Global Equity Market

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.81	10081	11081	12081	13081
Multicast Group IP Feed B	224.0.209.81				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.81	20081	21081	22081	23081
Multicast Group IP Feed B	224.0.211.81				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.83	10083	11083	12083	13083
Multicast Group IP Feed B	224.0.209.83				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.97	10097	11097	12097	13097
Multicast Group IP Feed B	224.0.209.97				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.83	20083	21083	22083	23083
Multicast Group IP Feed B	224.0.211.83				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.82	10082	11082	12082	13082
Multicast Group IP Feed B	224.0.209.82				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.96	10096	11096	12096	13096
Multicast Group IP Feed B	224.0.209.96				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.82	20082	21082	22082	23082
Multicast Group IP Feed B	224.0.211.82				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.84				

Multicast Group IP Feed B	224.0.209.84	10084	11084	12084	13084
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A	224.0.208.98	10098	11098	12098	13098
Multicast Group IP Feed B	224.0.209.98				
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A	224.0.210.84	20084	21084	22084	23084
Multicast Group IP Feed B	224.0.211.84				

2.11 MDG SET OF CHANNELS ID 51 – EQUITIES GREECE

Environment	Prod	MDGSetOfChannels ID	51
Optiq Segment name	Equities	MDGSetOfChannelsName	Equities Greece

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.1 224.0.209.1	**10001**	**11001**	**12001**	**13001**
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.1 224.0.211.1	**20001**	**21001**	**22001**	**23001**

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.2 224.0.209.2	**10002**	**11002**	**12002**	**13002**
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.3 224.0.209.3	**10003**	**11003**	**12003**	**13003**
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.2 224.0.211.2	**20002**	**21002**	**22002**	**23002**

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.4 224.0.209.4	**10004**	**11004**	**12004**	**13004**
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.5 224.0.209.5	**10005**	**11005**	**12005**	**13005**
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.4 224.0.211.4	**20004**	**21004**	**22004**	**23004**

3. OPTIQ SEGMENT – 2. FUNDS REAL-TIME AND SNAPSHOT CONFIGURATION

3.1 MDG SET OF CHANNELS ID 1 – FUNDS (Default)

Environment	PROD	MDGSetOfChannels ID	1
Optiq Segment name	Funds	MDGSetOfChannelsName	Funds

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.130	10130			
Multicast Group IP Feed B	224.0.209.130				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.130	20130			
Multicast Group IP Feed B	224.0.211.130				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.131	10131			
Multicast Group IP Feed B	224.0.209.131				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.132	10132			
Multicast Group IP Feed B	224.0.209.132				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.131	20131			
Multicast Group IP Feed B	224.0.211.131				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.134	10134			
Multicast Group IP Feed B	224.0.209.134				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.135	10135			
Multicast Group IP Feed B	224.0.209.135				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.133	20133			
Multicast Group IP Feed B	224.0.211.133				

3.2 MDG SET OF CHANNELS ID 39 – FUNDS ITALY (ATFX)

Environment	PROD	MDGSetOfChannels ID	39
Optiq Segment name	Funds	MDGSetOfChannelsName	Funds ETF Italy

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.50 224.0.209.50	10050			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.50 224.0.211.50	20050			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.51 224.0.209.51	10051			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.52 224.0.209.52	10052			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.51 224.0.211.51	20051			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.53 224.0.209.53	10053			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.54 224.0.209.54	10054			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.53 224.0.211.53	20053			

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.56 224.0.209.56	10056			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.57 224.0.209.57	10057			

Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.55 224.0.211.55	20055			

3.3 MDG SET OF CHANNELS ID 31 – BEST OF BOOK (RMF) FUNDS

Environment	PROD	MDGSetOfChannels ID	31
Optiq Segment name	Funds	MDGSetOfChannelsName	Best of Book (RMF) Funds

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.136 224.0.209.136	10136			
Channel Speed	1G	Partition 1			
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.137 224.0.209.137	10137			
Channel Speed	100M	Partition 1			
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.136 224.0.211.136	20136			

3.4 MDG SET OF CHANNELS ID 50 – FUNDS GREECE

Environment	Prod	MDGSetOfChannels ID	50
Optiq Segment name	Funds	MDGSetOfChannelsName	Funds Greece

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.99 224.0.209.99	10099			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.99 224.0.211.99	20099			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.116 224.0.209.116	**10116**			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.117 224.0.209.117	**10117**			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.116 224.0.211.116	**20116**			

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.118 224.0.209.118	**10118**			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.119 224.0.209.119	**10119**			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.118 224.0.211.118	**20118**			

4. OPTIQ SEGMENT – 3. FIXED INCOME REAL-TIME AND SNAPSHOT CONFIGURATION

4.1 MDG SET OF CHANNELS ID 2 – FIXED INCOME Default

Environment	PROD	MDGSetOfChannels ID	2
Optiq Segment name	Fixed Income	MDGSetOfChannelsName	Fixed Income

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.150	10150			
Multicast Group IP Feed B	224.0.209.150				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.150	20150			
Multicast Group IP Feed B	224.0.211.150				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.151	10151			
Multicast Group IP Feed B	224.0.209.151				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.152	10152			
Multicast Group IP Feed B	224.0.209.152				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.151	20151			
Multicast Group IP Feed B	224.0.211.151				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.153	10153			
Multicast Group IP Feed B	224.0.209.153				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.154	10154			
Multicast Group IP Feed B	224.0.209.154				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.153	20153			
Multicast Group IP Feed B	224.0.211.153				

4.2 MDG SET OF CHANNELS ID 12 – FIXED INCOME NORDIC ABM

Environment	PROD	MDGSetOfChannels ID	12
Optiq Segment name	Fixed Income	MDGSetOfChannelsName	Fixed Income Nordic ABM

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.149	10149			
Multicast Group IP Feed B	224.0.209.149				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.149	20149			
Multicast Group IP Feed B	224.0.211.149				

4.3 MDG SET OF CHANNELS ID 40 – FIXED INCOME ITALY (MOT/ExtraMOT)

Environment	PROD	MDGSetOfChannels ID	40
Optiq Segment name	Fixed Income	MDGSetOfChannelsName	FIXED INCOME Italy (MOT/extraMOT)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.40	10040			
Multicast Group IP Feed B	224.0.209.40				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.40	20040			
Multicast Group IP Feed B	224.0.211.40				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.41	10041			
Multicast Group IP Feed B	224.0.209.41				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.42	10042			
Multicast Group IP Feed B	224.0.209.42				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.41	20041			
Multicast Group IP Feed B	224.0.211.41				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.43 224.0.209.43	10043			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.44 224.0.209.44	10044			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.43 224.0.211.43	20043			

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.45 224.0.209.45	10045			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.46 224.0.209.46	10046			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.45 224.0.211.45	20045			

4.4 MDG SET OF CHANNELS ID 42 – FIXED INCOME ETLX (Bond-X)

Environment	PROD	MDGSetOfChannels ID	42
Optiq Segment name	Fixed Income	MDGSetOfChannelsName	Fixed Income ETLX (Bond-X)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.60 224.0.209.60	10060			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.60 224.0.211.60	20060			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.58 224.0.209.58	10058			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4

Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.59 224.0.209.59	10059			
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.58 224.0.211.58	20058			

Channel Type	**FBMU**	**Channel ID /Port**			
Real-time					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.61 224.0.209.61	10061			
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.62 224.0.209.62	10062			
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.61 224.0.211.61	20061			

Channel Type	**FBOU**	**Channel ID /Port**			
Real-time					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.63 224.0.209.63	10063			
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.64 224.0.209.64	10064			
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.63 224.0.211.63	20063			

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5. OPTIQ SEGMENT – 4. WARRANTS & CERTIFICATES REAL-TIME AND SNAPSHOT CONFIGURATION

5.1 MDG SET OF CHANNELS ID 4 – WARRANTS & CERTIFICATES

Environment	PROD	MDGSetOfChannels ID	4
Optiq Segment name	Warrants & Certificates	MDGSetOfChannelsName	Warrants & Certificates

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.155 224.0.209.155	10155	11155		
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.155 224.0.211.155	20155	21155		

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.156 224.0.209.156	10156	11156		
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.157 224.0.209.157	10157	11157		
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.156 224.0.211.156	20156	21156		

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.159 224.0.209.159	10159	11159		
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.158 224.0.211.158	20158	21158		

5.2 MDG SET OF CHANNELS ID 41 – WARRANTS & CERTIFICATES Italy (SEDEX)

Environment	PROD	MDGSetOfChannels ID	41
Optiq Segment name	Warrants & Certificates	MDGSetOfChannelsName	Warrants & Certificates Italy (SEDEX)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.65	10065	11065		
Multicast Group IP Feed B	224.0.209.65				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.65	20065	21065		
Multicast Group IP Feed B	224.0.211.65				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.66	10066	11066		
Multicast Group IP Feed B	224.0.209.66				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.67	10067	11067		
Multicast Group IP Feed B	224.0.209.67				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.66	20066	21066		
Multicast Group IP Feed B	224.0.211.66				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.69	10069	11069		
Multicast Group IP Feed B	224.0.209.69				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.68	20068	21068		
Multicast Group IP Feed B	224.0.211.68				

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5.3 MDG SET OF CHANNELS ID 43 – WARRANTS & CERTIFICATES ETLX (Cert-X)

Environment	PROD	MDGSetOfChannels ID	43
Optiq Segment name	Warrants & Certificates	MDGSetOfChannelsName	Warrants & Certificates ETLX (Cert-X)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.20	10020	11020		
Multicast Group IP Feed B	224.0.209.20				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.20	20020	21020		
Multicast Group IP Feed B	224.0.211.20				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.21	10021	11021		
Multicast Group IP Feed B	224.0.209.21				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.22	10022	11022		
Multicast Group IP Feed B	224.0.209.22				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.21	20021	21021		
Multicast Group IP Feed B	224.0.211.21				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.24	10024	11024		
Multicast Group IP Feed B	224.0.209.24				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.23	20023	21023		
Multicast Group IP Feed B	224.0.211.23				

6. OPTIQ SEGMENT – 5. BOURSE DE LUXEMBOURG REAL-TIME AND SNAPSHOT CONFIGURATION

6.1 MDG SET OF CHANNELS ID 3 – BOURSE DE LUXEMBOURG

Please note that the Bourse de Luxembourg Index messages are included in the Referential Data and Full Trade Information (REFT) real-time and snapshot channels.

Environment	PROD	MDGSetOfChannels ID	3
Optiq Segment name	Bourse de Luxembourg	MDGSetOfChannelsName	Bourse de Luxembourg

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.170 224.0.209.170	10170			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.170 224.0.211.170	20170			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.171 224.0.209.171	10171			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.172 224.0.209.172	10172			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.171 224.0.211.171	20171			

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.173 224.0.209.173	10173			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.174 224.0.209.174	10174			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.173 224.0.211.173	20173			

7. OPTIQ SEGMENT – 9. INDICES REAL-TIME AND SNAPSHOT CONFIGURATION

7.1 MDG SET OF CHANNELS ID 13 – EURONEXT INDICES

Environment	PROD	MDGSetOfChannels ID	13
Optiq Segment name	Indices	MDGSetOfChannelsName	Euronext Indices

Channel Type	REFI	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.250	10250			
Multicast Group IP Feed B	224.0.209.250				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.250	20250			
Multicast Group IP Feed B	224.0.211.250				

7.2 MDG SET OF CHANNELS ID 14 – EURONEXT INAV'S

Environment	PROD	MDGSetOfChannels ID	14
Optiq Segment name	Indices	MDGSetOfChannelsName	Euronext iNAV's

Channel Type	REFI	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.251	10251			
Multicast Group IP Feed B	224.0.209.251				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.251	20251			
Multicast Group IP Feed B	224.0.211.251				

7.3 MDG SET OF CHANNELS ID 15 – EURONEXT DUBLIN INDICES

Environment	PROD	MDGSetOfChannels ID	15
Optiq Segment name	Indices	MDGSetOfChannelsName	Euronext Dublin Indices

Channel Type	REFI	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.252	10252			
Multicast Group IP Feed B	224.0.209.252				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.252	20252			
Multicast Group IP Feed B	224.0.211.252				

8. OPTIQ SEGMENT – 14. EURONEXT BLOCK

8.1 MDG SET OF CHANNELS ID 19 – TRADING AFTER HOURS ITALY

Environment	PROD	MDGSetOfChannels ID	19
Optiq Segment name	Block	MDGSetOfChannelsName	Trading After Hours Italy

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.70	10070			
Multicast Group IP Feed B	224.0.209.70				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.70	20070			
Multicast Group IP Feed B	224.0.211.70				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.128	10128			
Multicast Group IP Feed B	224.0.209.128				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.129	10129			
Multicast Group IP Feed B	224.0.209.129				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.128	20128			
Multicast Group IP Feed B	224.0.211.128				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.71	10071			
Multicast Group IP Feed B	224.0.209.71				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.72	10072			
Multicast Group IP Feed B	224.0.209.72				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.71	20071			
Multicast Group IP Feed B	224.0.211.71				

Channel Type	FBOU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.73	10073			
Multicast Group IP Feed B	224.0.209.73				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.74	10074			
Multicast Group IP Feed B	224.0.209.74				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.73	20073			
Multicast Group IP Feed B	224.0.211.73				

8.2 MDG SET OF CHANNELS ID 46 – EQUITIES IPO FRANCE

Environment	PROD	MDGSetOfChannels ID	46
Optiq Segment name	Block	MDGSetOfChannelsName	Equities IPO France

Channel Type	EBLK	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.19	10019			
Multicast Group IP Feed B	224.0.209.19				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.19	20019			
Multicast Group IP Feed B	224.0.211.19				

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9. OPTIQ SEGMENT – 16. IRISH BONDS & FUNDS

9.1 MDG SET OF CHANNELS ID 35 – EURONEXT DUBLIN BONDS AND FUNDS

Environment	PROD	MDGSetOfChannels ID	35
Optiq Segment name	Irish Bonds & Funds	MDGSetOfChannelsName	Euronext Dublin Bonds and Funds

Channel Type	IBFR	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.226 224.0.209.226	10226			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.226 224.0.211.226	20226			

10. OPTIQ SEGMENT – 8. COMMODITY DERIVATIVES REAL-TIME AND SNAPSHOT CONFIGURATION

10.1 MDG SET OF CHANNELS ID 16 – COMMODITY DERIVATIVES

Environment	PROD	MDGSetOfChannels ID	16
Optiq Segment name	Commodity Derivatives	MDGSetOfChannelsName	Commodity Derivatives

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.245 224.0.209.245	10245			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.245 224.0.211.245	20245			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.246 224.0.209.246	10246			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.247 224.0.209.247	10247			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.246 224.0.211.246	20246			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.249 224.0.209.249	10249			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.248 224.0.211.248	20248			

10.2 MDG SET OF CHANNELS ID 38 – COMMODITY ENERGIES (POWER)

Environment	PROD	MDGSetOfChannels ID	38
Optiq Segment name	Commodity Derivatives	MDGSetOfChannelsName	Commodity Energies (Power)

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.211 224.0.209.211	10211			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.211 224.0.211.211	20211			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.212 224.0.209.212	10212			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.212 224.0.211.212	20212			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.214 224.0.209.214	10214			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.214 224.0.211.214	20214			

11. OPTIQ SEGMENT – 11. INDEX DERIVATIVES REAL-TIME AND SNAPSHOT CONFIGURATION

11.1 MDG SET OF CHANNELS ID 23 – INDEX OPTIONS FRANCE

Environment	PROD	MDGSetOfChannels ID	23
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Options France

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.220	10220			
Multicast Group IP Feed B	224.0.209.220				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.220	20220			
Multicast Group IP Feed B	224.0.211.220				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.221	10221			
Multicast Group IP Feed B	224.0.209.221				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.222	10222			
Multicast Group IP Feed B	224.0.209.222				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.221	20221			
Multicast Group IP Feed B	224.0.211.221				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.224	10224			
Multicast Group IP Feed B	224.0.209.224				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.225	10225			
Multicast Group IP Feed B	224.0.209.225				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.223	20223			
Multicast Group IP Feed B	224.0.211.223				

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11.2 MDG SET OF CHANNELS ID 24 – INDEX OPTIONS NETHERLANDS

Environment	PROD	MDGSetOfChannels ID	24
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Options Netherlands

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.230	10230			
Multicast Group IP Feed B	224.0.209.230				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.230	20230			
Multicast Group IP Feed B	224.0.211.230				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.231	10231			
Multicast Group IP Feed B	224.0.209.231				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.232	10232			
Multicast Group IP Feed B	224.0.209.232				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.231	20231			
Multicast Group IP Feed B	224.0.211.231				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.234	10234			
Multicast Group IP Feed B	224.0.209.234				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.235	10235			
Multicast Group IP Feed B	224.0.209.235				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.233	20233			
Multicast Group IP Feed B	224.0.211.233				

11.3 MDG SET OF CHANNELS ID 25 – INDEX DERIVATIVES OTHER (BELGIUM AND PORTUGAL)

Environment	PROD	MDGSetOfChannels ID	25
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Derivatives Other

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.240	10240			
Multicast Group IP Feed B	224.0.209.240				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.240	20240			
Multicast Group IP Feed B	224.0.211.240				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.241	10241			
Multicast Group IP Feed B	224.0.209.241				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.242	10242			
Multicast Group IP Feed B	224.0.209.242				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.241	20241			
Multicast Group IP Feed B	224.0.211.241				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.244	10244			
Multicast Group IP Feed B	224.0.209.244				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.243	20243			
Multicast Group IP Feed B	224.0.211.243				

11.4 MDG SET OF CHANNELS ID 26 – INDEX FUTURES FRANCE

Environment	PROD	MDGSetOfChannels ID	26
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Futures France

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.190	10190			
Multicast Group IP Feed B	224.0.209.190				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.190	20190			
Multicast Group IP Feed B	224.0.211.190				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.191	10191			
Multicast Group IP Feed B	224.0.209.191				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.192	10192			
Multicast Group IP Feed B	224.0.209.192				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.191	20191			
Multicast Group IP Feed B	224.0.211.191				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.194	10194			
Multicast Group IP Feed B	224.0.209.194				
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.195	10195			
Multicast Group IP Feed B	224.0.209.195				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.193	20193			
Multicast Group IP Feed B	224.0.211.193				

11.5 MDG SET OF CHANNELS ID 27 –INDEX FUTURES NETHERLANDS

Environment	PROD	MDGSetOfChannels ID	27
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Futures Netherlands

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.200 224.0.209.200	10200			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.200 224.0.211.200	20200			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.201 224.0.209.201	10201			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.202 224.0.209.202	10202			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.201 224.0.211.201	20201			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.204 224.0.209.204	10204			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.205 224.0.209.205	10205			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.203 224.0.211.203	20203			

11.6 MDG SET OF CHANNELS ID 28 – INDEX FUTURES ITALY

Environment	PROD	MDGSetOfChannels ID	28
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Futures Italy

Channel Type	REFT	Channel ID /Port

Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.196 224.0.209.196	10196			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.196 224.0.211.196	20196			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.197 224.0.209.197	10197			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.198 224.0.209.198	10198			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.197 224.0.211.197	20197			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.199 224.0.209.199	10199			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.229 224.0.209.229	10229			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.254 224.0.211.254	20254			

11.7 MDG SET OF CHANNELS ID 37 – INDEX OPTIONS ITALY

Environment	PROD	MDGSetOfChannels ID	37
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Options Italy

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.215 224.0.209.215	10215			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.215 224.0.211.215	20215			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.216 224.0.209.216	10216			
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.217 224.0.209.217	10217			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.216 224.0.211.216	20216			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.219 224.0.209.219	10219			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.228 224.0.209.228	10228			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.218 224.0.211.218	20218			

11.8 MDG SET OF CHANNELS ID 53 – INDEX DERIVATIVES GREECE

Environment	Prod	MDGSetOfChannels ID	53
Optiq Segment name	Index Derivatives	MDGSetOfChannelsName	Index Derivs GRE

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.144 224.0.209.144	10144			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.144 224.0.211.144	20144			

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.145 224.0.209.145	**10145**			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.146 224.0.209.146	**10146**			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.145 224.0.211.145	**20145**			

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.147 224.0.209.147	**10147**			
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.148 224.0.209.148	**10148**			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.147 224.0.211.147	**20147**			

12. OPTIQ SEGMENT – 12. EQUITY DERIVATIVES REAL-TIME AND SNAPSHOT CONFIGURATION

12.1 MDG SET OF CHANNELS ID 20 – EQUITY DERIVATIVES FRANCE

Environment	PROD	MDGSetOfChannels ID	20
Optiq Segment name	Equity Derivatives	MDGSetOfChannelsName	Equity Derivatives France

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.175	10175	11175	12175	
Multicast Group IP Feed B	224.0.209.175				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.175	20175	21175	22175	
Multicast Group IP Feed B	224.0.211.175				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.176	10176	11176	12176	
Multicast Group IP Feed B	224.0.209.176				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.177	10177	11177	12177	
Multicast Group IP Feed B	224.0.209.177				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.176	20176	21176	22176	
Multicast Group IP Feed B	224.0.211.176				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.179	10179	11179	12179	
Multicast Group IP Feed B	224.0.209.179				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.178	20178	21178	22178	
Multicast Group IP Feed B	224.0.211.178				

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12.2 MDG SET OF CHANNELS ID 21 – EQUITY DERIVATIVES NETHERLANDS

Environment	PROD	MDGSetOfChannels ID	21
Optiq Segment name	Equity Derivatives	MDGSetOfChannelsName	Equity Derivatives Netherlands

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.180 224.0.209.180	10180	11180	12180	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.180 224.0.211.180	20180	21180	22180	

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.181 224.0.209.181	10181	11181	12181	
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.182 224.0.209.182	10182	11182	12182	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.181 224.0.211.181	20181	21181	22181	

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.184 224.0.209.184	10184	11184	12184	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.183 224.0.211.183	20183	21183	22183	

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12.3 MDG SET OF CHANNELS ID 22 – EQUITY DERIVATIVES OTHER (BELGIUM AND PORTUGAL)

Environment	PROD	MDGSetOfChannels ID	22
Optiq Segment name	Equity Derivatives	MDGSetOfChannelsName	Equity Derivatives Other

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.185	10185	11185	12185	
Multicast Group IP Feed B	224.0.209.185				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.185	20185	21185	22185	
Multicast Group IP Feed B	224.0.211.185				

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.186	10186	11186	12186	
Multicast Group IP Feed B	224.0.209.186				
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.187	10187	11187	12187	
Multicast Group IP Feed B	224.0.209.187				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.186	20186	21186	22186	
Multicast Group IP Feed B	224.0.211.186				

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	1G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.189	10189	11189	12189	
Multicast Group IP Feed B	224.0.209.189				
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.210.188	20188	21188	22188	
Multicast Group IP Feed B	224.0.211.188				

12.4 MDG SET OF CHANNELS ID 36 – EQUITY DERIVATIVES ITALY

Environment	PROD	MDGSetOfChannels ID	36
Optiq Segment name	Equity Derivatives	MDGSetOfChannelsName	Equity Derivatives Italy

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4

Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.210 224.0.209.210	10210	11210	12210	
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.210 224.0.211.210	20210	21210	22210	

Channel Type	**BBBO**	**Channel ID /Port**			
Real-time					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.206 224.0.209.206	10206	11206	12206	
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.207 224.0.209.207	10207	11207	12207	
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.206 224.0.211.206	20206	21206	22206	

Channel Type	**FBMU**	**Channel ID /Port**			
Real-time					
Channel Speed	**1G**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.209 224.0.209.209	10209	11209	12209	
Snapshot					
Channel Speed	**100M**	**Partition 1**	**Partition 2**	**Partition 3**	**Partition 4**
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.208 224.0.211.208	20208	21208	22208	

12.5 MDG SET OF CHANNELS ID 52 – EQUITY DERIVATIVES GREECE

Environment	Prod	MDGSetOfChannels ID	52
Optiq Segment name	Equity Derivatives	MDGSetOfChannelsName	Equity Derivatives Greece

Channel Type	REFT	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.28 224.0.209.28	10028	11028	12028	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.28 224.0.211.28	20028	21028	22028	

Channel Type	BBBO	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.29 224.0.209.29	**10029**	**11029**	**12029**	
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.37 224.0.209.37	**10037**	**11037**	**12037**	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.29 224.0.211.29	**20029**	**21029**	**22029**	

Channel Type	FBMU	Channel ID /Port			
Real-time					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.38 224.0.209.38	**10038**	**11038**	**12038**	
Channel Speed	10G	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.39 224.0.209.39	**10039**	**11039**	**12039**	
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.210.38 224.0.211.38	**20038**	**21038**	**22038**	

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