

Document title

OPTIQ® Orderbook Snapshot and MDG Lite – Production Connectivity

EURONEXT MILAN CASH AND DERIVATIVES MARKETS

Document type or subject FEED CONFIGURATION DOCUMENT

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PREFACE

DOCUMENT HISTORY

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

VERSION NO.	DATE	CHANGE DESCRIPTION
1.0	Jan 2023	Optiq [®] Snapshot and MDG Lite Production and Disaster Recovery – Environment feed configuration details.
<u>1.1</u>	<u>May 2023</u>	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)

REFERENCE MATERIAL

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

- Euronext Markets Optiq MDG Client Specifications
- Euronext Cash and Derivatives Markets Optiq MDG Production Connectivity
- Optig[®] MDG Lite Client Specifications

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FURTHER INFORMATION

1. INTRODUCTION

This document provides all multicast and TCP/IP addresses required to access the Euronext Optiq[®] Production and Disaster Recovery (DR) for Optiq Snapshot and MDG Lite services.

The Euronext Optiq[®] 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.

The document should be read in conjunction with the Euronext Cash and Derivatives Markets – Optiq MDG External User Acceptance Connectivity document, in order to derive a combined view of the Euronext Production and DR available services.

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

1.1 SET OF CHANNELS FOR OPTIQ SNAPSHOT AND MDG LITE SERVICES

The partitioning of Optiq Snapshot and MDG Lite Channels is aligned with partitioning of Optiq Segments. Only Italy Channels are supported.

Optiq Segment	Number of Partitions	MDG Set Of Channels ID	MDG Set Of Channels Name
		18	Equities Italy [MTAA, MIVX, EXGM]
1. Equities	4	<u>44</u>	Equities ETLX [ETLX]
		45	Italy GEM [BGEM]
2. Funds	1	39	Italy Funds [ETFP, ATFX]
		<u>40</u>	Fixed Income Italy (MOT/ExtraMOT)
<u>3. Fixed Income</u>	<u>1</u>	<u>42</u>	Fixed Income ETLX (Bond-X)
4 Warrants and Cartificator	2	<u>41</u>	Warrants and Certificates Italy (SEDEX)
4. Warrants and Certificates	<u>2</u>	<u>43</u>	Warrants and Certificates ETLX (Cert-X)
14. Euronext Block	1	19	Italy TAH [XTAH]

1.2 CHANNEL TYPES AND CHANNEL ID

The Channel Types and Channel ID's that are available to each customer depend on the available bandwidth on customer connections to the SFTI Network and the services that were selected in the SFTI[®] order form. Depending on the Asset Class, the following Optiq Orderbook Snapshot channel types are made available to customers:

- 1. Pre-trade Multicast services
 - a. MBO Best 10 Bid and Ask orders
 - b. MBP Best 10 Bid and Ask price levels

In addition, depending on both the Asset Class and the MDG Lite users access enablement, the following MDG Lite services via TCP connection are made available to customers:

- 2. MDG Lite
 - a. MBO Best 10 Bid and Ask orders
 - b. MBP Best 10 Bid and Ask price levels
 - c. BBBO Best Bid and Ask price levels
 - d. Full book using Market Update messages (includes Best Bid and Best Offer)
 - e. Full book using Order Update messages (includes Best Bid and Best Offer)
 - f. Post Trade Full Trade Information
 - g. Reference Data

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

Environment	Channel ID	Real- Time/Snapshot	Multicast Group Feed A	Multicast Group Feed B
Production	1(n)xxx	Real-Time		
	2(n)xxx	Snapshot	224.0.208.xxx	224.0.209.xxx

The Source Multicast IP for MBO/MBP Real-time and Snapshot, and MDG Lite destination Ips for Feed A and B are:

Description	IP Address
Primary IP Address MDG Lite Destination	212.107.95.0/24
Secondary IP Address of MDG Lite Destination	212.197.254.0/24
Primary IP Address Source of Multicast Disaster Recovery IP Address Source of Multicast and MDG- Lite-	<u>212.107.93.0/24</u>
Secondary IP Address Source of Multicast	<u>212.107.94.0/24</u>

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

2.1 MDG SET OF CHANNELS ID 18 – EQUITIES ITALY

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

Channel Type	MBO 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	224.0.208.10 224.0.209.10	10010	11010	12010	13010
		Snapshot			
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.10	20010	21010	22010	23010
Multicast Group IP Feed B	224.0.209.10				

Channel Type	MBP 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	224.0.208.9 224.0.209.9	10009	11009	12009	13009
	\$	Snapshot			
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.9	20009	21009	22009	23009
Multicast Group IP Feed B	224.0.209.9				

Channel Type	MDG Lite	Channel ID /Port					
Real-time							
Partition 1 Partition 2 Partition 3 Partition 4							
Primary MDG Lite	e IP	212.107.95.86:10009	212.107.95.86:11009	212.107.95.86:12009	212.107.95.86:13009		
Secondary MDG Lite IP		212.107.95.89:10009	212.107.95.90:11009	212.107.95.91:12009	212.107.95.89:13009		

Secondary MDG Lite IP

Environment DISASTER RECOVERY			MDGSetOfChann	els ID	18	
Optiq Segment name		Equities	MDGSetOfChannelsName		Equities Italy	
Channel Type	MDG Lite	Channel ID /Port				
	Real-time					
	Partition 1 Partition 2 Partition 3 Partition 4					
Primary MDG Lit	e IP	212.197.254.43:10009	212.197.254.43:11009	212.197.254.43:12009	212.197.254.43:13009	

212.197.254.44:10009 212.197.254.45:11009 212.197.254.46:12009 212.197.254.44:13009

Environment	PROD	MDGSetOf(Channels ID		<u>44</u>
Optiq Segment name	<u>Equities</u>	MDGSetOfCl	nannelsName	Equities ETLX	
Channel Type	MBO		Channel	ID /Port	
	<u> </u>	Real-time			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition	3 Partition
<u>Multicast Group IP Feed A</u> Multicast Group IP Feed B	<u>224.0.208.12</u> 224.0.209.12	<u>10012</u>	<u>11012</u>	<u>12012</u>	<u>13012</u>
	5	Snapshot			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition	3 Partition
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.12 224.0.209.12	<u>20012</u>	<u>21012</u>	<u>22012</u>	<u>23012</u>
Channel Type	MBP		<u>Channe</u>	I ID /Port	
Obernal Creed	-	Real-time	Deutitien 0	Deutitieur	2 Deutitieur
Channel Speed	<u>100M</u>	Partition 1 10011	Partition 2 11011	Partition 1201	
<u>Multicast Group IP Feed A</u> Multicast Group IP Feed B	<u>224.0.208.11</u> 224.0.209.11	10011	<u>11011</u>	1201	<u>1 13011</u>
	5	Snapshot			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition	3 Partition
<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u>	<u>224.0.209.11</u> 224.0.209.11	<u>20011</u>	<u>21011</u>	<u>22011</u>	<u>23011</u>
Channel Type MDG Lite		<u>Ch</u>	annel ID /Port		
	I	Real-time			
	Partition 1	Partition	<u>2</u> Partiti	<u>on 3</u>	Partition 4
Channel Speed					
Channel Speed Primary MDG Lite IP	<u>212.107.95.90:10011</u>	212.107.95.90:110	<u>)11</u> <u>212.107.9</u>	<u>5.91:12011</u> 2	12.107.95.91:1301

Environment	DISASTER RECOVERY			<u>44</u>	
Optiq Segment name	<u>Equities</u>	MDGSetOfChannelsName		Equities ETLX	
Channel Type MDG Li	te	Channel ID /Port			
	E	<u>Real-time</u>			
	Partition 1	Partition 2	Partition 3	Partition 4	
Primary MDG Lite IP	<u>212.197.254.45:10011</u>	<u>212.197.254.45:11011</u>	<u>212.197.254.46:12011</u>	212.197.254.46:13011	
Secondary MDG Lite IP	<u>212.197.254.46:10011</u>	<u>212.197.254.46:11011</u>	212.197.254.45:12011	<u>212.197.254.45:13011</u>	

2.12.3 MDG SET OF CHANNELS ID 45 – GLOBAL EQUITY MARKET

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

Channel Type	MBO	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	224.0.208.14 224.0.209.14	10014	11014	12014	13014			
		Snapshot						
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4			
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.14 224.0.209.14	20014	21014	22014	23014			

Channel Type	MBP	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	224.0.208.13 224.0.209.13	10013	11013	12013	13013		
		Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4		
Multicast Group IP Feed A	224.0.208.13	20013	21013	22013	23013		
Multicast Group IP Feed B	224.0.209.13						

Channel Type	MDG Lite	Channel ID /Port					
Real-time							
Channel Speed		Partition 1	Partition 2	Partition 3	Partition 4		
Primary MDG Lite IP		212.107.95.89:10013	212.107.95.89:11013	212.107.95.89:12013	212.107.95.89:13013		
Secondary MDG	Lite IP	212.107.95.86:10013	212.107.95.90:11013	212.107.95.91:12013	212.107.95.86:13013		

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

Channel Type	MDG Lite	Channel ID /Port					
Real-time							
		Partition 1	Partition 2	Partition 3	Partition 4		
Primary MDG Lite IP		212.197.254.44:10013	212.197.254.44:11013	212.197.254.44:12013	212.197.254.44:13013		
Secondary MDG Lite IP		212.197.254.43:10013	212.197.254.45:11013	212.197.254.46:12013	212.197.254.43:13013		

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

3.1 MDG SET OF CHANNELS ID 39 – FUNDS ETF ITALY

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

Channel Type	MBO	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						
	Snapshot							
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	20002						

Channel Type	MBP	Channel ID /Port					
Real-time							
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4		
Multicast Group IP Feed A	224.0.208.1	10001					
Multicast Group IP Feed B	224.0.209.1						
		Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4		
Multicast Group IP Feed A	224.0.208.1	20001					
Multicast Group IP Feed B	224.0.209.1						

Channel Type	MDG Lite	Channel ID /Port					
Real-time							
Channel S	Channel Speed						
Primary MDG Lite	e IP	212.107.95.86:10001					
Secondary MDG Lite IP		212.107.95.90:10001					

Environm	ient	DISASTER MDGSetOfChannels I RECOVERY			39	
Optiq Segment name		Funds	MDGSetOfChannelsName		Funds ETF Italy	
Channel Type	MDG Lite		Channel	ID /Port		
Real-time						
		R	leai-linne			
		Partition 1	.eai-uine			

212.197.254.45:10001

Secondary MDG Lite IP

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

4.1 MDG SET OF CHANNELS ID 40 – FIXED INCOME Italy (MOT/ExtraMOT)

Environment	PROD	MDGSetOfChannels ID	<u>40</u>
Optiq Segment name	Fixed Income	MDGSetOfChannelsName	Fixed Income Italy (MOT/ExtraMOT)

Channel Type	MBO	<u>Channel ID /Port</u>			
		Real-time			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.4	<u>10004</u>			
Multicast Group IP Feed B	<u>224.0.209.4</u>				
		Snapshot	-		-
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.4	<u>20004</u>			
Multicast Group IP Feed B	224.0.209.4				

Channel Type	MBP		Channel	ID /Port	
		Real-time			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	<u>224.0.208.3</u>	<u>10003</u>			-
Multicast Group IP Feed B	<u>224.0.209.3</u>		-	-	-
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.3	<u>20003</u>			
Multicast Group IP Feed B	<u>224.0.209.3</u>				

Channel Type	MDG Lite	Channel ID /Port				
		<u>R</u>	<u>eal-time</u>			
Channel S	<u>beed</u>	Partition 1	Partition 2	Partition 3	Partition 4	
Primary MDG Lite	<u>e IP</u>	212.107.95.90:10003				
Secondary MDG	Lite IP	<u>212.107.95.89:10003</u>				

<u>Environment</u>	DISASTER RECOVERY	MDGSetOfChann	<u>els ID</u>	<u>40</u>
Optiq Segment name	Fixed Income	MDGSetOfChannel	<u>sName</u>	Fixed Income Italy (MOT/ExtraMOT)
Channel Type MDG Lite		<u>Channel</u>	ID /Port	
	R	<u>eal-time</u>		
	Partition 1			
Primary MDG Lite IP	212.197.254.45:10003			
Secondary MDG Lite IP	212.197.254.44:10003			

4.2

.2	MDG SET OF CHANNELS	ID 42 – FIXED IN	<u>COME ETLX (</u>	Bond-X)			
	Environment	PROD	MDGSetOfC	hannels ID		<u>42</u>	1
	Optiq Segment name	Fixed Income	MDGSetOfCh	Fixed Income ETLX (Bond-X)			
							•
	Channel Type	MBO		Channel	ID /Port		
			<u>Real-time</u>				
	Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partitic	on 3	Partition 4
	Multicast Group IP Feed A	<u>224.0.208.6</u>	<u>10006</u>				
	Multicast Group IP Feed B	<u>224.0.209.6</u>					
			<u>Snapshot</u>				
	Channel Speed	100M	Partition 1	Partition 2	Partitio	on 3	Partition 4
	Multicast Group IP Feed A	224.0.208.6	20006				
	Multicast Group IP Feed B	224.0.209.6					
	Channel Type	MBP		Channel	ID /Port		
			<u>Real-time</u>				
	Channel Speed	<u>100M</u>	Real-time Partition 1	Partition 2	Partitic	on <u>3</u>	Partition 4
	<u>Channel Speed</u> Multicast Group IP Feed A			Partition 2	Partitic	on <u>3</u>	Partition 4
		<u>100M</u>	Partition 1	Partition 2	Partitic	<u>on 3</u>	Partition 4
	Multicast Group IP Feed A	<u>100M</u> 224.0.208.5 224.0.209.5	Partition 1	Partition 2	Partitic	<u>on 3</u>	Partition 4
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u>	<u>100M</u> 224.0.208.5 224.0.209.5	Partition 1 10005	Partition 2 Partition 2	Partitic Partitic		Partition 4 Partition 4
	Multicast Group IP Feed A	<u>100M</u> 224.0.208.5 224.0.209.5	Partition 1 10005 Snapshot Partition 1				
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u> <u>Channel Speed</u>	<u>100M</u> 224.0.208.5 224.0.209.5 100M	Partition 1 10005 Snapshot				
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u> <u>Channel Speed</u> <u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u>	<u>100M</u> 224.0.208.5 224.0.209.5 <u>224.0.209.5</u> <u>100M</u> 224.0.208.5	Partition 1 10005 Snapshot Partition 1 20005	Partition 2			
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u> <u>Channel Speed</u> <u>Multicast Group IP Feed A</u>	<u>100M</u> 224.0.208.5 224.0.209.5 <u>224.0.209.5</u> <u>100M</u> 224.0.208.5	Partition 1 10005 Snapshot Partition 1 20005				
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u> <u>Channel Speed</u> <u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u>	<u>100M</u> 224.0.208.5 224.0.209.5 <u>100M</u> 224.0.208.5 224.0.209.5	Partition 1 10005 Snapshot Partition 1 20005	Partition 2			
	Multicast Group IP Feed A Multicast Group IP Feed A Multicast Group IP Feed A Multicast Group IP Feed B	<u>100M</u> 224.0.208.5 224.0.209.5 <u>100M</u> 224.0.208.5 224.0.209.5	Partition 1 10005 Snapshot Partition 1 20005 Cha eal-time	Partition 2 nnel ID /Port	Partitic	<u>on 3</u>	
	<u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u> <u>Channel Speed</u> <u>Multicast Group IP Feed A</u> <u>Multicast Group IP Feed B</u>	<u>100M</u> 224.0.208.5 224.0.209.5 100M 224.0.208.5 224.0.209.5	Partition 1 <u>10005</u> Chapshot Partition 1 <u>20005</u>	Partition 2 nnel ID /Port	Partitic	<u>on 3</u>	Partition 4
	Multicast Group IP Feed A Multicast Group IP Feed B Channel Speed Multicast Group IP Feed A Multicast Group IP Feed B Channel Type MDG Lite Channel Speed Primary MDG Lite IP	100M 2224.0.208.5 224.0.209.5 224.0.209.5 224.0.209.5 224.0.209.5 224.0.209.5 224.0.209.5 224.0.209.5	Partition 1 10005 Snapshot Partition 1 20005 Cha eal-time	Partition 2 nnel ID /Port	Partitic	<u>on 3</u>	Partition 4
	Multicast Group IP Feed A Multicast Group IP Feed A Multicast Group IP Feed A Multicast Group IP Feed B MDG Lite MDG Lite Channel Speed MDG Lite	<u>100M</u> <u>224.0.208.5</u> <u>224.0.209.5</u> <u>100M</u> <u>224.0.208.5</u> <u>224.0.209.5</u> <u>224.0.209.5</u>	Partition 1 10005 Snapshot Partition 1 20005 Cha eal-time	Partition 2 nnel ID /Port	Partitic	<u>on 3</u>	Partition 4

<u>Environment</u>	DISASTER RECOVERY	MDGSetOfChanne	<u>42</u>	
Optiq Segment name	Fixed Income	MDGSetOfChannel	<u>sName</u>	Fixed Income ETLX (Bond-X)
Channel Type MDG Lite		<u>Channel</u>	ID /Port	
	<u>R</u>	<u>leal-time</u>		
	Partition 1			
Primary MDG Lite IP	212.197.254.46:10005			
Secondary MDG Lite IP	<u>212.197.254.43:10005</u>			

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

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

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

Channel Type	MBP		<u>Channel</u>	ID /Port	
		<u>Real-time</u>			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	<u>224.0.208.7</u> 224.0.209.7	<u>10007</u>	<u>11007</u>		
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A Multicast Group IP Feed B	<u>224.0.208.7</u> 224.0.209.7	<u>20007</u>	<u>21007</u>		

Channel Type MDG Lite	Channel ID /Port				
	<u>I</u>	<u>Real-time</u>			
Channel Speed	Partition 1	Partition 2	Partition 3	Partition 4	
Primary MDG Lite IP	212.107.95.91:10007	<u>212.107.95.91:11007</u>			
Secondary MDG Lite IP	212.107.92.86:10007	<u>212.107.92.89:11007</u>			

Environment	DISASTER RECOVERY	MDGSetOfChann	<u>els ID</u>	<u>41</u>
Optiq Segment name	<u>Warrants &</u> <u>Certificates</u>	MDGSetOfChannelsName		<u>Warrants &</u> <u>Certificates Italy</u> (<u>SEDEX)</u>
Channel Type MDG Lite		Channel		
		<u>teal-time</u>		
	Partition 1			
Primary MDG Lite IP	212.197.254.46:10007	212.197.254.46:11007		
Secondary MDG Lite IP	<u>212.197.254.43:10007</u>	212.197.254.44:11007		

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

Environment	PROD	MDGSetOf	Channels ID	4	<u>3</u>
Optiq Segment name	Warrants & Certificates	MDGSetOfChannelsName		Warrants & Certificates E (Cert-X)	
Channel Type	MBP		<u>Channel</u>	ID /Port	
		Real-time			
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.8	<u>10008</u>	<u>11008</u>		
Multicast Group IP Feed B	<u>224.0.209.8</u>				
Channel Speed	<u>100M</u>	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	<u>224.0.208.8</u>	<u>20008</u>	<u>21008</u>		
Multicast Group IP Feed B	<u>224.0.209.8</u>				
Channel Type MDG Lite		<u>Cha</u>	annel ID /Port		
		Real-time			
Channel Speed	Partition 1	Partition 2	2 Partition	n 3 Parl	ition 4

<u>212.107.95.90:10008</u> <u>212.107.95.90:11008</u>

<u>212.107.95.86:10008</u> <u>212.107.95.89:11008</u>

Primary MDG Lite IP

Secondary MDG Lite IP

Environment	DISASTER RECOVERY	MDGSetOfChann	<u>els ID</u>	<u>43</u>
Optiq Segment name	<u>Warrants &</u> <u>Certificates</u>	MDGSetOfChannel	l <u>sName</u>	<u>Warrants &</u> <u>Certificates ETLX</u> (Cert-X)
	Channel ID /Port			
Channel Type MDG Lite		<u>Channel</u>	ID /Port	
Channel Type MDG Lite	Ī	<u>Channel</u> Real-time	ID /Port	
Channel Type MDG Lite	Partition 1		<u>ID /Port</u>	
Channel Type MDG Lite Primary MDG Lite IP		<u>Real-time</u>	<u>ID /Port</u>	

4.6. OPTIQ SEGMENT – 14. EURONEXT BLOCK

4.16.1 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	MBO	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	224.0.208.16 224.0.209.16	10016					
	Snapshot						
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4		
Multicast Group IP Feed A Multicast Group IP Feed B	224.0.208.16 224.0.209.16	20016					

Channel Type	MBP	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	224.0.208.15 224.0.209.15	10015			
Snapshot					
Channel Speed	100M	Partition 1	Partition 2	Partition 3	Partition 4
Multicast Group IP Feed A	224.0.208.15	20015			
Multicast Group IP Feed B	224.0.209.15				

Channel Type	MDG Lite	Channel ID /Port					
Real-time							
Channel Speed		Partition 1					
Primary MDG Lite	e IP	212.107.95.89:10015					
Secondary MDG Lite IP		212.107.95.91:10015					

Environment		DISASTER RECOVERY	MDGSetOfChannels ID		19		
Optiq Segment name		Block	MDGSetOfChannelsName		Trading After Hours Italy		
Channel Type	MDG Lite	Channel ID /Port					
Real-time							
		Partition 1					
Primary MDG Lite IP		212.197.254.44:10015					
Secondary MDG Lite IP		212.197.254.46:10015					