



**MARKET
DATA FEED**

OASIS MDFS Message Reference

Version: 0.16

Revision History

Version	Date	Description
0.12	2024/03/11	UAT release.
0.13	2024/04/16	<ol style="list-style-type: none"> 1. Updated the values for tag "625 = TradingSessionSubID" in all messages throughout the document. 2. Updated the note for tag "625 = LastMsgSeqNumProcessed" in section "2.1 Header" to reflect its use in heartbeat messages. 3. Removed unused values "3 = Delete Thru", "4 = Delete From" and "5 = Overlay" from tag "279 = MDUpdateAction" throughout the document.
0.14	2024/05/24	<ol style="list-style-type: none"> 1. Added custom tag "20011 = ATHEXSecurityCategory" to "f = SecurityStatus", "W = MarketDataSnapshotFullRefresh", "X = MarketDataIncrementalRefresh" and all related sections. 2. Updated values for tag "167 = SecurityType" in "f = SecurityStatus", "W = MarketDataSnapshotFullRefresh", "X = MarketDataIncrementalRefresh" and all related sections. 3. Added tag "264 = MarketDepth" to "W = MarketDataSnapshotFullRefresh", "X = MarketDataIncrementalRefresh" and all related sections. 4. Added tag "1023 = MDPriceLevel" to sections "3.3.2 Top of Book Update" and "4.3.2 Top of Book Update". 5. Updated value descriptions and notes for tag "625 = TradingSessionSubID" in "h = TradingSessionStatus" and "f = SecurityStatus" messages. 6. Added value "2 = Filled" to tag "39 = OrdStatus" to "W = MarketDataSnapshotFullRefresh", "X = MarketDataIncrementalRefresh" and sections related to Order Depth Update messages.
0.15	2024/07/24	<ol style="list-style-type: none"> 1. Updated sections "3.2. Order Depth" and "4.2. Order Depth" to clarify that they do not apply to Standard Combination instruments. 2. Changed value "e = Previous Closing Price (Start of Day Price)" to "t = Start of Day Price" for tag "269 = MDEntryType". 3. Updated section "5. TCP/IP Retransmission Service Messages". 4. Changed the FIX Data Type of tag "20005 = ATHEXOrderEntryDate" to "LocalMktDate". 5. Added sections "3.9. MSCI Delayed (Special Group)" & "4.9. MSCI Delayed (Special Group)". 6. Updated naming and descriptions all MSCI/MXGRR related sections.
0.16	2025/01/20	<ol style="list-style-type: none"> 1. Added Section "2.2. Application Sequence Control" 2. Updated section "2.4. 0 = Heartbeat" 3. Added value "2 = Delete" to tag "279 = MDUpdateAction" in section "3.1.6. Closing Price". 4. Updated section "3.1.6. Closing Price". 5. Updated section "3.1.8. Auction Price". 6. Updated section "5.7. j = BusinessMessageReject" to remove ErrorCode for Incorrect ApplReqID and remove optional ApplReqID field. 7. Updated sections "2.8. W = MarketDataSnapshotFullRefresh", "2.9. X = MarketDataIncrementalRefresh", "3.2.2. Order Depth Update", "3.3.2. Top of Book Update", "3.4.2. Price Depth Update", "4.2.2. Order Depth Update", "4.3.2. Top of Book Update", "4.4.2. Price Depth Update" to include new values: "b = Market Bid" and "c = Market Offer" for tag "269 = MDEntryType". 8. Updated sections "3.3.2. Top of Book Update", "3.4.2. Price Depth Update", "4.3.2. Top of Book Update", "4.4.2. Price Depth Update" to mark tag "1023= MDPriceLevel" as optional.

		<ol style="list-style-type: none">9. Updated sections “3.3.2. Top of Book Update”, “3.4.2. Price Depth Update”, “4.3.2. Top of Book Update”, “4.4.2. Price Depth Update” to mark tag “270 = MDEntryPx” as optional.10. Updated sections “3.3.2. Top of Book Update”, “3.4.2. Price Depth Update”, “4.3.2. Top of Book Update”, “4.4.2. Price Depth Update” to add a note for tag “271 = MDEntrySize” for ATO+Market/ATC volumes.11. Updated description of tag “326 = SecurityTradingStatus” in sections “2.5. f = SecurityStatus”, “3.1.2. Security Status”, “4.1.2. Security status”.12. Added note containing the maximum length for variable length tags with the “String” datatype throughout the document.13. Updated section “5.4. BW = ApplicationMessageRequest”.14. Updated section “5.5. BX = ApplicationMessageRequestAck”.15. Updated section “5.6. BY = ApplicationMessageReport”.16. Deleted section “5.7. j = BusinessMessageReject”.17. Updated section “5.7. UMDR = MulticastDataRetransmission” and changed the message to “UEFD = EncapsulatedFASTData”.
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1. Introduction

This document describes the format of FIX messages disseminated through the MDFS. The data format follows the [FIX 5.0 SP2](#) specification. Some messages, tags and tag values from [FIX Extension Packs](#) the [FIX 5.0 SP2](#) specification are utilized in MDFS messages. If a message, tag or value is not marked as custom and is not included in the [FIX 5.0 SP2](#) specification, then details about it can be found at the [latest version of the FIX Specification](#).

Note: Values in the Data Type column correspond to the FIX Datatypes available [here](#).

Note: Cells with a **Yellow Background** indicate custom tags.

Cells with an **Orange Background** indicate custom values.

Cells with a **Green Background** indicate tags that are not included in that message type in the standard FIX specification.

2. FIX Message Specification

2.1. Header

Note: Included at the beginning of all messages. Only the tag 35=MsgType is included in subsequent tables.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 8	BeginString	Y	String	FIXT.1.1
→ 9	BodyLength	Y	Length	
→ 35	MsgType	Y	String	3 = Reject 5 = Logout A = Logon B = News BW = ApplicationMessageRequest BX = ApplicationMessageRequestAck BY = ApplicationMessageReport f = SecurityStatus h = TradingSessionStatus W = MarketDataSnapshotFullRefresh X = MarketDataIncrementalRefresh Custom Values: UEFD = EncapsulatedFastData
→ 49	SenderCompID	Y	String	Note: Max. 50 characters
→ 56	TargetCompID	Y	String	Note: Max. 50 characters
→ 34	MsgSeqNum	Y	SeqNum	
→ 52	SendingTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ 369	LastMsgSeqNumProcessed		SeqNum	Contains the value of tag "34 = MsgSeqNum" of the last message processed before the generation of this message. Note: Used for Snapshot synchronization and Heartbeats.
→ 20009	ATHEXSnapshotIndicator		Int	0 = Start of cycle 1 = End of cycle 2 = Start and end of cycle (applies when the cycle is comprised of a single message)
→ 20010	ATHEXFragmentIndicator		Int	0 = Start of fragmented message 1 = Middle of fragmented message 2 = End of fragmented message
Component End				

2.2. Application Sequence Control

Note: Included in all Marked Data messages (e.g. Incremental Refresh, Snapshot, Security Status, Trading Session Status, News etc.) and heartbeats in multicast traffic, after the header component.

Tag	Name	R	Data Type	Value
Component	ApplSeqCtrl			
→ 1180	ApplID	Y	String	Note: Used to identify each group. Is comprised of the group's name and the "_INCR" or "_SNAP" suffix (e.g. XATH_CASH_GENERAL_INCR, XATH_CASH_GENERAL_SNAP).
→ 1181	ApplSeqNum	Y	SeqNum	Note: Sequence number per group. Will always be "0" for multicast traffic heartbeats.
Component End				

2.3. Trailer

Note: Included at the end of all messages. It is omitted in subsequent tables.

Tag	Name	R	Data Type	Value
Component	StandardTrailer	Y		
→ 10	CheckSum	Y	String	Note: 3 characters
Component End				

2.4. 0 = Heartbeat

This message is transmitted when no other messages have been transmitted in the past 30 seconds. Heartbeat messages in multicast traffic always have tag "34=MsgSeqNum" with value set to "0" and are omitted in Snapshot Multicast Groups.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	0 = Heartbeat
→ 34	MsgSeqNum	Y	SeqNum	
Component End				

2.5. f = SecurityStatus

These messages are transmitted to notify of changes in an instrument's phase and/or status.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	f = SecurityStatus
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ 20001	ATHEXMarketID	Y	Char	
Component End				
625	TradingSessionSubID		String	2 = Opening (Auction Price is calculated) 3 = (Continuous) Trading 4 = Closing Custom Values:

				<p>101 = Start 102 = Pre-Call (Auction) 104 = ATC Orders Are Released in Order Book 105 = End 106 = Stop (conclusion of a Call-Auction)</p> <p>Note: Corresponds to the Instrument's Phase.</p>
326	SecurityTradingStatus		Int	<p>2 = Trading Halt 3 = Resume</p> <p>Custom Values: 101 = Active 102 = Suspend</p> <p>Note: The value "3 = Resume" is sent for an instrument when its Halt period concludes and it enters a Pre-Call period.</p> <p>The value "101 = Active" will be sent for the instrument after the end of either "102 = Suspend" or "3 = Resume".</p> <p>When an instrument has the status of "2 = Trading Halt" or "102 = Suspend" no orders can be entered.</p>
327	HaltReason		Int	<p>Custom Values: 101 = Exchange 102 = Volatility Interrupter</p>
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

2.6. h = TradingSessionStatus

These messages are transmitted to signify changes to a market's status.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	h = TradingSessionStatus
Component End				
207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
20001	ATHEXMarketID	Y	Char	
20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
336	TradingSessionID	Y	String	1 = Day
625	TradingSessionSubID	Y	String	For board "M = Main": 3 = (Continuous) Trading 4 = Closing Custom Values: 102 = Pre-Call (Auction) 103 = Projected Price Calculation (Auction) 105 = End 106 = Stop (conclusion of a Call-Auction. Used in Auction-Type markets only) 107 = Run Off (conclusion of all trading activity) 108 = Halt For boards other than "M = Main": 2 = Opening Custom Values: 105 = End 108 = Halt
340	TradSesStatus	Y	Int	1 = Halted 2 = Open 3 = Closed 4 = Pre-Open 5 = Pre-Close
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

2.7. B = News

These messages contain news/announcements from the exchange.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	B = News
Component End				
1474	LanguageCode	Y	Language	en = English el = Greek Note: ISO 639-1 Language Code
148	Headline	Y	String	
Component	LinesOfTextGrp	Y		
→ RG Start 33	NoLinesOfText	Y	NumInGroup	Note: Integer.
→ → 58	Text	Y	String	Note: Max. 80 characters.
→ RG End				
Component End				
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

2.8. W = MarketDataSnapshotFullRefresh

These messages are transmitted through the snapshot multicast groups and contain all the pertinent information needed to get the current state of an instrument and its order books.

If a multicast group has no data to send (e.g. when no trades have occurred in a snapshot group for trades) an empty message with the tag "20009 = ATHEXSnapshotIndicator" with a value of "2 = Start and end of cycle" will be sent to indicate the empty cycle.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType		Int	1 = Top of Book 2 = Price Depth 3 = Order Depth
Component	Instrument			
→ 55	Symbol		String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory		Int	0 = Stock / Rights 1 = ETF 2 = Warrant 3 = Stock Index 4 = ETF Indicative Net Asset Value (INAV) 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType		String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note

					TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked	
→	207		SecurityExchange		Exchange	Note: Venue ID (ISO 10383 MIC).
→	231		ContractMultiplier		Float	Note: Nominal Value for bonds.
→	159		AccruedInterestAmt		Amt	Note: For Bonds.
→	20001		ATHEXMarketID		Char	
Component End						
Component						
			MDFullGrp	Y		
→	RG 268		NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	MDEntryType		Char	0 = Bid 1 = Offer 2 = Trade 3 = Index Value 4 = Opening Price 5 = Closing Price 7 = Trading Session High Price 8 = Trading Session Low Price b = Market bid c = Market offer g = Threshold Limits and Price Banding J = Empty Book Custom Values: t = Start of Day Price u = Projected Closing Price v = Projected Auction Price w = Auction Price x = Trading Session Last Price (The last price with which the given Instrument was traded, during the trading day) y = Total Volume (The sum of the volumes of all Instrument trades occurred, during the trading day) z = Total Value (The total value traded in the given Market for the given Instrument, during the trading day)
→	→	20002	ATHEXBoardID		Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
→	→	270	MDEntryPx		Price	
→	→	271	MDEntrySize		Qty	Note: Used to represent Total Volume for MDEntryType = y (Total Volume).
→	→	264	MarketDepth		Int	1 = Top of Book 5 = 5 Levels 10 = 10 Levels

→	→	1023	MDPriceLevel		Int		
→	→	346	NumberOfOrders		Int		
→	→	290	MDEntryPositionNo		Int		
→	→	37	OrderID		String	Note: 8 Numeric Characters. Unique for the day.	
→	→	39	OrdStatus		Char	2 = Filled 4 = Cancelled C = Expired Custom Values: I = Inactive N = Not Released O = Open	
→	→	14	CumQty		Qty	Note: Matched Volume.	
→	→	59	TimeInForce		Char	0 = Day (or Session) 1 = Good Till Cancel (GTC) 2 = At the Opening (OPG) 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 6 = Good Till Date (GTD) 7 = At the Close	
→	→	40	OrdType		Char	1 = Market 3 = Stop 4 = Stop Limit 7 = Limit or Better	
→	→	20003	ATHEXSpecialCondition		Char	A = All or None I = Stop Index M = Minimum Fill O = Multiple of S = Stop Instrument	
→	→	20004	ATHEXConditionVolume		Qty	Note: Used to represent volume when ATHEXSpecialCondition = M or ATHEXSpecialCondition = O.	
→	→	20005	ATHEXOrderEntryDate		LocalMktDate	Note: YYYYMMDD format.	
→	→	277	TradeCondition		String	0 = Cancel	
→	→	1003	TradeID		String	Note: 6 Numeric Characters. Unique for the day.	
→	→	1024	MDOriOriginType		Int	0 = Book 1 = Off-Book 3 = Quote Driven Market 5 = Auction Driven Market	
→	→	625	TradingSessionSubID		String	2 = Opening 3 = (Continuous) Trading 4 = Closing 5 = Post-Trading	
→	→	1115	OrderCategory		Char	3 = Privately Negotiated Trade	
→	→	Component		TrdRegPublicationGrp			
→	→	→	RG 2668	NoTrdRegPublications	NumInGroup		
→	→	→	→	2669	TrdRegPublicationType	Int	0 = Pre-Trade Transparency Waiver
→	→	→	→	2670	TrdRegPublicationReason	Int	0 = No Preceding Order in Book as Transaction Price Set Within Average Spread of a Liquid Instrument (NLIQ) 1 = No Preceding Order in Book as Transaction Price Depends on

									System-Set Reference Price for an Illiquid Instrument (OILQ) 2 = No Preceding Order in Book as Transaction Price Is Subject to Conditions Other Than Current Market Price (PRIC) 3 = No Public Price for Preceding Order as Public Reference Price Was Used for Matching Orders (RFPT) 4 = No Public Price Quoted as Instrument Is Illiquid (ILQD) 5 = No Public Price Quoted Due to Size (SIZE)
→	→	→	RG End						
→	→	Component End							
→	→	Component		TradePriceConditionGrp					
→	→	→	RG 1838		NoTradePriceConditions		NumInGroup		
→	→	→	→	1839	TradePriceCondition		Int		13 = Special Dividend
→	→	→	RG End						
→	→	Component End							
→	→	2667		AlgorithmicTradeIndicator		Int			0 = Non-Algorithmic Trade 1 = Algorithmic Trade
→	→	1390		TradePublishIndicator		Int			1 = Publish Trade
→	→	570		PreviouslyReported		Boolean			N = Not Reported to Counterparty or Market Y = Previously Reported to Counterparty or Market
→	→	20006		ATHEXTotalVolume		Qty			Note: The total number of stocks/contracts traded up to that point.
→	→	20007		ATHEXTradeValue		Qty			Note: Notional Amount.
→	→	20008		ATHEXIndexType		Char			B = Base C = Closing O = Opening T = Trading
→	→	Component		PriceLimits					
→	→	→	1148		LowLimitPrice		Price		Note: Floor Price.
→	→	→	1149		HighLimitPrice		Price		Note: Ceiling Price.
→	→	Component End							
→	→	60		TransactTime		UTCTimestamp			Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End								
Component End									

2.9. X = MarketDataIncrementalRefresh

These messages are transmitted via the incremental multicast groups throughout the trading session to signify trades, orders, price levels, index values, start of day prices, high/low limits, closing prices, instrument summaries and auction prices .

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType		Int	1 = Top of Book 2 = Price Depth 3 = Order Depth
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 3 = Stock Index 4 = ETF Indicative Net Asset Value (INAV) 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType		String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note

							TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	231	ContractMultiplier		Float	Note: Nominal Value for Bonds.
→	→	→	159	AccruedInterestAmt		Amt	Note: For Bonds.
→	→	→	20001	ATHEXMarketID		Char	
→	→	Component End					
→	→	→	269	MDEntryType	Y	Char	0 = Bid 1 = Offer 2 = Trade 3 = Index Value 4 = Opening Price 5 = Closing Price 7 = Trading Session High Price 8 = Trading Session Low Price b = Market bid c = Market offer g = Threshold Limits and Price Banding J = Empty Book Custom Values: t = Start of Day Price u = Projected Closing Price v = Projected Auction Price w = Auction Price x = Trading Session Last Price (The last price with which the given Instrument was traded, during the trading day) y = Total Volume (The sum of the volumes of all Instrument trades occurred, during the trading day) z = Total Value (The total value traded in the given Market for the given Instrument, during the trading day)
→	→	→	20002	ATHEXBoardID		Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
→	→	→	270	MDEntryPx		Price	
→	→	→	271	MDEntrySize		Qty	Note: Used to represent Total Volume for MDEntryType = y (Total Volume).
→	→	→	264	MarketDepth		Int	1 = Top of Book 5 = 5 Levels

						10 = 10 Levels
→	→	1023	MDPPriceLevel		Int	
→	→	346	NumberOfOrders		Int	
→	→	290	MDEntryPositionNo		Int	
→	→	37	OrderID		String	Note: 8 Numeric Characters. Unique for the day.
→	→	39	OrdStatus		Char	2 = Filled 4 = Cancelled C = Expired Custom Values: I = Inactive N = Not Released O = Open
→	→	14	CumQty		Qty	Note: Matched Volume.
→	→	59	TimeInForce		Char	0 = Day (or Session) 1 = Good Till Cancel (GTC) 2 = At the Opening (OPG) 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 6 = Good Till Date (GTD) 7 = At the Close
→	→	40	OrdType		Char	1 = Market 3 = Stop 4 = Stop Limit 7 = Limit or Better
→	→	20003	ATHEXSpecialCondition		Char	A = All or None I = Stop Index M = Minimum Fill O = Multiple of S = Stop Instrument
→	→	20004	ATHEXConditionVolume		Qty	Note: Used to represent volume when ATHEXSpecialCondition = M or ATHEXSpecialCondition = O.
→	→	20005	ATHEXOrderEntryDate		LocalMktDate	Note: YYYYMMDD format.
→	→	277	TradeCondition		String	0 = Cancel
→	→	1003	TradeID		String	Note: 6 Numeric Characters. Unique for the day
→	→	1024	MDOriOriginType		Int	0 = Book 1 = Off-Book 3 = Quote Driven Market 5 = Auction Driven Market
→	→	625	TradingSessionSubID		String	2 = Opening 3 = (Continuous) Trading 4 = Closing 5 = Post-Trading
→	→	1115	OrderCategory		Char	3 = Privately Negotiated Trade
→	→	Component		TrdRegPublicationGrp		
→	→	→	RG 2668	NoTrdRegPublications	NumInGroup	
→	→	→	→	2669	TrdRegPublicationType	0 = Pre-Trade Transparency Waiver
→	→	→	→	2670	TrdRegPublicationReason	0 = No Preceding Order in Book as Transaction Price Set Within Average Spread of a Liquid Instrument (NLIQ)

									1 = No Preceding Order in Book as Transaction Price Depends on System-Set Reference Price for an Illiquid Instrument (OILQ) 2 = No Preceding Order in Book as Transaction Price Is Subject to Conditions Other Than Current Market Price (PRIC) 3 = No Public Price for Preceding Order as Public Reference Price Was Used for Matching Orders (RFPT) 4 = No Public Price Quoted as Instrument Is Illiquid (ILQD) 5 = No Public Price Quoted Due to Size (SIZE)
→	→	→	RG End						
→	→	→	Component End						
→	→	→	Component	TradePriceConditionGrp					
→	→	→	RG 1838	NoTradePriceConditions		NumInGroup			
→	→	→	→ 1839	TradePriceCondition		Int		13 = Special Dividend	
→	→	→	RG End						
→	→	→	Component End						
→	→	→	2667	AlgorithmicTradeIndicator		Int		0 = Non-Algorithmic Trade 1 = Algorithmic Trade	
→	→	→	1390	TradePublishIndicator		Int		1 = Publish Trade	
→	→	→	570	PreviouslyReported		Boolean		N = Not Reported to Counterparty or Market Y = Previously Reported to Counterparty or Market	
→	→	→	20006	ATHEXTotalVolume		Qty		Note: The total number of stocks/contracts traded up to that point.	
→	→	→	20007	ATHEXTradeValue		Qty		Note: Notional Amount.	
→	→	→	20008	ATHEXIndexType		Char		B = Base Index C = Closing Index O = Opening Index T = Trading Index	
→	→	→	Component	PriceLimits					
→	→	→	1148	LowLimitPrice		Price		Note: Floor Price.	
→	→	→	1149	HighLimitPrice		Price		Note: Ceiling Price.	
→	→	→	Component End						
→	→	→	60	TransactTime	Y	UTCTimestamp		Note: YYYYMMDD-HH:MM:SS.ssssss format.	
→	→	→	RG End						
→	→	→	Component End						

3. Incremental Messages by Group Type

This section contains the layout of various incremental messages sent by the MDFS according to the multicast group type.

3.1. General

This group will send messages that relate to the trading session status, security status, index values, start of day prices, high/low limits, closing prices, instrument summaries, auction prices and news.

3.1.1. Trading Session Status

A message will be transmitted to signify changes to a market's status. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	h = TradingSessionStatus
Component End				
207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
20001	ATHEXMarketID	Y	Char	
20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
336	TradingSessionID	Y	String	1 = Day
625	TradingSessionSubID	Y	String	For board "M = Main": 3 = (Continuous) Trading 4 = Closing Custom Values: 102 = Pre-Call (Auction) 103 = Projected Price Calculation (Auction) 105 = End 106 = Stop (conclusion of a Call-Auction. Used in Auction-Type markets only) 107 = Run Off (conclusion of all trading activity) 108 = Halt For boards other than "M = Main": 2 = Opening Custom Values: 105 = End 108 = Halt
340	TradSesStatus	Y	Int	1 = Halted 2 = Open 3 = Closed 4 = Pre-Open 5 = Pre-Close
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

3.1.2. Security Status

A message will be transmitted to notify of changes in an instrument's phase or status. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	f = SecurityStatus
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ 20001	ATHEXMarketID	Y	Char	
Component End				
625	TradingSessionSubID		String	2 = Opening (Auction Price is calculated) 3 = (Continuous) Trading 4 = Closing

				<p>Custom Values: 101 = Start 102 = Pre-Call (Auction) 104 = ATC Orders Are Released in Order Book 105 = End 106 = Stop (conclusion of a Call-Auction)</p> <p>Note: Corresponds to the Instrument's Phase.</p>
326	SecurityTradingStatus		Int	<p>2 = Trading Halt 3 = Resume</p> <p>Custom Values: 101 = Active 102 = Suspend</p> <p>Note: The value "3 = Resume" is sent for an instrument when its Halt period concludes and it enters a Pre-Call period.</p> <p>The value "101 = Active" will be sent for the instrument after the end of either "102 = Suspend" or "3 = Resume".</p> <p>When an instrument has the status of "2 = Trading Halt" or "102 = Suspend" no orders can be entered.</p>
327	HaltReason		Int	<p>Custom Values: 101 = Exchange 102 = Volatility Interrupter</p>
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

3.1.3. Index Value

A message will be transmitted every time the trading platform calculates the value of an index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index 4 = ETF Indicative Net Asset Value (INAV)
→ → → 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ → Component End				
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

3.1.4. Start of Day Price

A message will be transmitted at the beginning of the trading day. It contains two repeating groups, one containing the start of day price, and one containing the high/low limits. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ → → 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).

→	→	→	231	ContractMultiplier		Float	Note: Nominal Value for bonds.
→	→	→	159	AccruedInterestAmt		Amt	Note: For Bonds.
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	g = Threshold limits and price banding Custom Values: t = Start of Day Price
→	→	270		MDEntryPx		Price	
→	→	Component		PriceLimits			
→	→	→	1148	LowLimitPrice		Price	Note: Floor Price.
→	→	→	1149	HighLimitPrice		Price	Note: Ceiling Price.
→	→	Component End					
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.1.5. High/Low Limit Modification

A message will be transmitted if the static high and low limits for the given instrument change. The message will only contain the tags "1148= LowLimitPrice" and/or "1149= HighLimitPrice" if their value has changed. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant

							XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	g = Threshold limits and price banding
→	→	Component		PriceLimits			
→	→	→	1148	LowLimitPrice		Price	Note: Floor Price.
→	→	→	1149	HighLimitPrice		Price	Note: Ceiling Price.
→	→	Component End					
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.1.6. Closing Price

A message regarding an instrument's closing price will be transmitted in the following occasions:

- **Closing Price:** The closing price has been calculated by the trading platform. If for any reason the trading platform recalculates the closing price of an instrument, then the MDFS will disseminate a new closing price message for the given instrument with the new price.
- **Projected Closing Price:** This value applies only to markets that have a closing auction phase and only if their listed instruments are set up to follow a given set of closing auction rules. One such message will be transmitted whenever the projected closing price or volume changes. Please note that the trading platform uses a given set of business rules to derive these values and these values can be equal to:
 - The projected auction price and volume
 - The alternative closing price and volume computed by the exchange's algorithm of choice. Although the alternative closing price will always be greater than zero the same does not hold true for its volume. The volume can equal to zero if there is no order matching at the given price.

When the closing price is calculated, the message sent will contain two repeating groups:

- The first with tag "279 = MDUpdateAction" having the value "2 = Delete" and tag "269 = MDEntryType" having the value "u = Projected Closing Price".
- The second with tag "279 = MDUpdateAction" having the value "0 = New" and tag "269 = MDEntryType" having the value "5 = Closing price".

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns

							FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	5 = Closing price Custom Values: u = Projected Closing Price
→	→	270		MDEntryPx	Y	Price	
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.1.7. Instrument Summary

A message will be transmitted for each instrument right after the corresponding market status changes to end of day. It will one contain repeating group of each type specified in the values for field "269 = MDEntryType", excluding any that have been sent before and have not changed

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFNRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ → → 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ → → 20001	ATHEXMarketID	Y	Char	

→	→	Component End				
→	→	269	MDEntryType	Y	Char	<p>4 = Opening Price 5 = Closing Price 7 = Trading session high price 8 = Trading session low price</p> <p>Custom Values: t = Start of Day Price x = Trading Session Last Price (The last price with which the given Instrument was traded, during the trading day) y = Total Volume (The sum of the volumes of all Instrument trades occurred, during the trading day) z = Total Value (The total value traded in the given Market for the given Instrument, during the trading day)</p>
→	→	270	MDEntryPx		Price	Note: Used for all MDEntryTypes Except for Total Volume.
→	→	271	MDEntrySize		Qty	Note: Used to represent Total Volume for MDEntryType = y (Total Volume).
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

3.1.8. Auction Price

A message regarding an instrument's auction price will be transmitted in the following occasions:

- **Projected Auction Price:** The trading platform allows a market to have a projected auction price calculation phase. During that phase, the trading platform will calculate and send the projected auction price for each instrument participating in this market, whenever the instrument's number of matchable orders changes. Such messages will also be sent for a security during an auction caused by a volatility interrupter or other halt reason.
- **Auction Price:** Whenever a market opens from an auction the trading platform will calculate and send the auction open price for all instruments listed under this market. Only one such message will be sent for each instrument after each auction opening. One such message will also be sent for an instrument if it opens from an auction caused by a volatility interrupter or other halt reason. Please note that such a message will not be sent at the opening of a closing auction if the closing price becomes derived from an algorithm and not from the opening of that auction.

When an auction price is calculated, the message sent will contain two repeating groups:

- The first with tag "279 = MDUpdateAction" having the value "2 = Delete" and tag "269 = MDEntryType" having the value "v = Projected Auction Price".
- The second with tag "279 = MDUpdateAction" having the value "0 = New" and tag "269 = MDEntryType" having the value "w = Auction Price".

If another auction takes place, when the first projected auction price is calculated, the message sent will contain two repeating groups:

- The first with tag "279 = MDUpdateAction" having the value "2 = Delete" and tag "269 = MDEntryType" having the value "w = Auction Price".
- The second with tag "279 = MDUpdateAction" having the value "0 = New" and tag "269 = MDEntryType" having the value "v = Projected Auction Price".

This is repeated for each subsequent auction.

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination

→	→	→	167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	→	269	MDEntryType	Y	Char	Custom Values: v = Projected Auction Price w = Auction Price
→	→	→	270	MDEntryPx	Y	Price	
→	→	→	271	MDEntrySize	Y	Qty	
→	→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.1.9. News

A message will be transmitted to disseminate news/announcements from the exchange. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	B = News
Component End				
1474	LanguageCode	Y	Language	en = English el = Greek Note: ISO 639-1 Language Code
148	Headline	Y	String	
Component	LinesOfTextGrp	Y		
→ RG Start 33	NoLinesOfText	Y	NumInGroup	Note: Integer.
→ → 58	Text	Y	String	Note: Max. 80 characters.
→ RG End				
Component End				
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

3.2. Order Depth

This group will send messages that contain all the necessary instructions needed to maintain each instrument's order depth book. These messages are not sent for Standard Combination instruments.

3.2.1. Empty Book

A message instructing the client to empty the order depth book of an instrument. These messages are sent at the start of the trading session for instruments that have no active orders. This message will also be sent after the unlikely event of a MDFS failure, where all order books will need to be emptied to avoid possible corruption.

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	3 = Order Depth
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note

							TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	J = Empty book
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.2.2. Order Depth Update

A message signifying an order will be transmitted in the following occasions:

- At the beginning of the trading session if the order's lifetime spans multiples days (where tag "59 = TimeInForce" has a value of "1 = Good Till Cancel (GTC)" or "6 = Good Till Date (GTD)")
- When a new order is entered in the trading platform
- When an already placed order is changed (e.g. order status, volume, price etc.). In this case tags "37 = OrderID" and "20005 = ATHEXOrderEntryDate" fields can be used to relate the reported modification with the original order.

This message type is not transmitted for combinations.

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	3 = Order Depth
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo
→ → → 167	SecurityType	Y	String	CB = Convertible Bond

							<p>CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFNRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked</p>
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→		269	MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer
→	→		20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
→	→		270	MDEntryPx		Price	
→	→		271	MDEntrySize	Y	Qty	
→	→		290	MDEntryPositionNo	Y	Int	
→	→		37	OrderID	Y	String	Note: 8 Numeric Characters. Unique for the day.
→	→		39	OrdStatus	Y	Char	2 = Filled 4 = Cancelled C = Expired Custom Values: I = Inactive N = Not Released

						O = Open
→	→	14	CumQty	Y	Qty	Note: Matched Volume.
→	→	59	TimeInForce	Y	Char	0 = Day (or Session) 1 = Good Till Cancel (GTC) 2 = At the Opening (OPG) 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 6 = Good Till Date (GTD) 7 = At the Close
→	→	40	OrdType		Char	1 = Market 3 = Stop 4 = Stop Limit 7 = Limit or Better
→	→	20003	ATHEXSpecialCondition		Char	A = All or None I = Stop Index M = Minimum Fill O = Multiple of S = Stop Instrument
→	→	20004	ATHEXConditionVolume		Qty	Note: Used to represent volume when ATHEXSpecialCondition = M or ATHEXSpecialCondition = O.
→	→	20005	ATHEXOrderEntryDate	Y	LocalMktDate	Note: YYYYMMDD format.
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

3.3. Top of Book

This group will send messages that contain all the necessary instructions needed to maintain each instrument's top of book.

3.3.1. Empty Book

A message instructing the client to empty the top of book of an instrument. These messages are sent at the start of the trading session for instruments that have no active orders. This message will also be sent after the unlikely event of a MDFS failure, where all order books will need to be emptied to avoid possible corruption.

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	1 = Top of Book
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US

							TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	→	269	MDEntryType	Y	Char	J = Empty book
→	→	→	264	MarketDepth	Y	Int	1 = Top of Book
→	→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.3.2. Top of Book Update

A message will be transmitted whenever there is a change at an instrument's top of book. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	1 = Top of Book
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond

							EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269	MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer	
→	→	270	MDEntryPx		Price		
→	→	271	MDEntrySize	Y	Qty	Note: Contains the total ATO+Market/ATC volume when 269=MDEntryType is b="Market bid" or c="Market offer".	
→	→	264	MarketDepth	Y	Int	1 = Top of Book	
→	→	1023	MDPriceLevel		Int		
→	→	346	NumberOfOrders	Y	Int		
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.	
→	RG End						
Component End							

3.4. Price Depth 5/10

This group will send messages that contain all the necessary instructions needed to maintain each instrument's Price Depth 5/10 book.

3.4.1. Empty Book

A message instructing the client to empty the price depth 5/10 book of an instrument. These messages are sent at the start of the trading session for instruments that have no active orders. This message will also be sent after the unlikely event of a MDFS failure, where all order books will need to be emptied to avoid possible corruption.

The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	2 = Price Depth
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US

							TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	→	269	MDEntryType	Y	Char	J = Empty book
→	→	→	264	MarketDepth	Y	Int	5 = 5 Levels 10 = 10 Levels
→	→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.4.2. Price Depth Update

A message will be transmitted whenever one or more price levels of an instrument's price depth 5/10 book are changed. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
1021	MDBookType	Y	Int	2 = Price Depth
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer
→ → 279	MDUpdateAction	Y	Char	0 = New 1 = Change 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond

							EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC)..
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer
→	→	270		MDEntryPx		Price	
→	→	271		MDEntrySize	Y	Qty	Note: Contains the total ATO+Market/ATC volume when 269=MDEntryType is b="Market bid" or c="Market offer".
→	→	264		MarketDepth	Y	Int	5 = 5 Levels 10 = 10 Levels
→	→	1023		MDPriceLevel		Int	
→	→	346		NumberOfOrders	Y	Int	
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End						
Component End							

3.5. Trades

This group will send messages that contain details of trades or trade cancellations for each instrument.

3.5.1. Trade

A message will be transmitted in the event of a trade or trade cancellation. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New 2 = Delete
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ → → 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ → → 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note

							TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→	→	→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	→	→	20001	ATHEXMarketID	Y	Char	
→	→	Component End					
→	→	269		MDEntryType	Y	Char	2 = Trade
→	→	20002		ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
→	→	270		MDEntryPx	Y	Price	
→	→	271		MDEntrySize	Y	Qty	
→	→	277		TradeCondition		String	0 = Cancel
→	→	1003		TradeID	Y	String	Note: 6 Numeric Characters. Unique for the day.
→	→	1024		MDOriOriginType	Y	Int	0 = Book 1 = Off-Book 3 = Quote Driven Market 5 = Auction Driven Market
→	→	625		TradingSessionSubID	Y	String	2 = Opening 3 = (Continuous) Trading 4 = Closing 5 = Post-Trading
→	→	1115		OrderCategory		Char	3 = Privately Negotiated Trade
→	→	Component		TrdRegPublicationGrp			
→	→	→	RG 2668	NoTrdRegPublications		NumInGroup	
→	→	→	→	2669	TrdRegPublicationType	Int	0 = Pre-Trade Transparency Waiver
→	→	→	→	2670	TrdRegPublicationReason	Int	0 = No Preceding Order in Book as Transaction Price Set Within Average Spread of a Liquid Instrument (NLIQ) 1 = No Preceding Order in Book as Transaction Price Depends on System-Set Reference Price for an Illiquid Instrument (OILQ) 2 = No Preceding Order in Book as Transaction Price Is Subject to Conditions Other Than Current Market Price (PRIC) 3 = No Public Price for Preceding Order as Public Reference Price Was Used for Matching Orders (RFPT) 4 = No Public Price Quoted as Instrument Is Illiquid (ILQD) 5 = No Public Price Quoted Due to Size (SIZE)

→	→	→	RG End				
→	→		Component End				
→	→		Component	TradePriceConditionGrp			
→	→	→	RG 1838	NoTradePriceConditions		NumInGroup	
→	→	→	→	1839	TradePriceCondition	Int	13 = Special Dividend
→	→	→	RG End				
→	→		Component End				
→	→		2667	AlgorithmicTradeIndicator	Y	Int	0 = Non-Algorithmic Trade 1 = Algorithmic Trade
→	→		1390	TradePublishIndicator	Y	Int	1 = Publish Trade
→	→		570	PreviouslyReported	Y	Boolean	N = Not Reported to Counterparty or Market Y = Previously Reported to Counterparty or Market
→	→		20006	ATHEXTotalVolume	Y	Qty	Note: The total number of stocks/contracts traded up to that point.
→	→		20007	ATHEXTradeValue	Y	Qty	Note: Notional Amount.
→	→		60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD- HH:MM:SS.ssssss format.
→			RG End				
			Component End				

3.6. FTSE (Special Group)

This is a special group that disseminates the index value of the FTSE index and is exclusive to the XATH venue.

3.6.1. Index Value

A message will be transmitted every time the trading platform calculates the value of the FTSE index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	FTSE
→ → → 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ → → 207	SecurityExchange	Y	Exchange	XATH
→ → Component End				
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

3.7. MSCI General (Special Group)

This is a special group that disseminates the base & closing index value of the MSCI Greece Rebased index and is exclusive to the XATH venue.

3.7.1. Index Value

A message will be transmitted when the trading platform calculates the base or closing index value of the MSCI Greece Rebased index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	MXGRR
→ → → 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ → → 207	SecurityExchange	Y	Exchange	XATH
→ → Component End				
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

3.8. MSCI Updates (Special Group)

This is a special group that disseminates the opening & trading index value of the MSCI Greece Rebased index and is exclusive to the XATH venue.

3.8.1. Index Value

A message will be transmitted whenever the trading platform calculates the opening or trading index value of the MSCI Greece Rebased index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	MXGRR
→ → → 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ → → 207	SecurityExchange	Y	Exchange	XATH
→ → Component End				
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

3.9. MSCI Delayed (Special Group)

This is a special group that disseminates the index value of the MSCI Greece Rebased index with a delay and is exclusive to the XATH venue.

3.9.1. Index Value

A message will be transmitted whenever the trading platform calculates the index value of the MSCI Greece Rebased index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	X = MarketDataIncrementalRefresh
Component End				
Component	MDIncGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 279	MDUpdateAction	Y	Char	0 = New
→ → Component	Instrument	Y		
→ → → 55	Symbol	Y	String	MXGRRD
→ → → 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ → → 207	SecurityExchange	Y	Exchange	XATH
→ → Component End				
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

4. Snapshot Messages by Group Type

This section contains the layout of various Snapshot messages sent by the MDFs according to the multicast group type.

4.1. General

This group disseminates messages that relate to the current Trading Session Status, Security Status, Index Values, Instrument Info and News.

4.1.1. Trading Session Status

This message contains a market's current status. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	h = TradingSessionStatus
Component End				
207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
20001	ATHEXMarketID	Y	Char	
20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
336	TradingSessionID	Y	String	1 = Day
625	TradingSessionSubID	Y	String	For board "M = Main": 3 = (Continuous) Trading 4 = Closing Custom Values: 102 = Pre-Call (Auction) 103 = Projected Price Calculation (Auction) 105 = End 106 = Stop (conclusion of a Call-Auction. Used in Auction-Type markets only) 107 = Run Off (conclusion of all trading activity) 108 = Halt For boards other than "M = Main": 2 = Opening Custom Values: 105 = End 108 = Halt
340	TradSesStatus	Y	Int	1 = Halted 2 = Open 3 = Closed 4 = Pre-Open 5 = Pre-Close
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

4.1.2. Security Status

This message contains an instrument's current status and/or phase. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	f = SecurityStatus
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ 20001	ATHEXMarketID	Y	Char	
Component End				
625	TradingSessionSubID		String	2 = Opening (Auction Price is calculated) 3 = (Continuous) Trading 4 = Closing Custom Values: 101 = Start 102 = Pre-Call (Auction)

				<p>104 = ATC Orders Are Released in Order Book 105 = End 106 = Stop (conclusion of a Call-Auction)</p> <p>Note: Corresponds to the Instrument's Phase.</p>
326	SecurityTradingStatus		Int	<p>2 = Trading Halt 3 = Resume</p> <p>Custom Values: 101 = Active 102 = Suspend</p> <p>Note: The value "3 = Resume" is sent for an instrument when its Halt period concludes and it enters a Pre-Call period.</p> <p>The value "101 = Active" will be sent for the instrument after the end of either "102 = Suspend" or "3 = Resume".</p> <p>When an instrument has the status of "2 = Trading Halt" or "102 = Suspend" no orders can be entered.</p>
327	HaltReason		Int	<p>Custom Values: 101 = Exchange 102 = Volatility Interrupter</p>
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

4.1.3. Index Value

This message contains all the index value updates for the day for an index. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index 4 = ETF Indicative Net Asset Value (INAV)
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
Component End				
Component	MDFullGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

4.1.4. Instrument Info

This message contains the current high/low limits, start of day price, closing price, summary, and the latest auction price for an instrument. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ 231	ContractMultiplier		Float	Note: Nominal Value for bonds.
→ 159	AccruedInterestAmt		Amt	Note: For Bonds.
→ 20001	ATHEXMarketID	Y	Char	

Component End						
Component			MDFullGrp	Y		
→	RG 268		NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	MDEntryType	Y	Char	<p>4 = Opening Price 5 = Closing Price 7 = Trading Session High Price 8 = Trading Session Low Price g = Threshold Limits and Price Banding</p> <p>Custom Values: t = Start of Day Price u = Projected Closing Price v = Projected Auction Price w = Auction Price x = Trading Session Last Price (The last price with which the given Instrument was traded, during the trading day) y = Total Volume (The sum of the volumes of all Instrument trades occurred, during the trading day) z = Total Value (The total value traded in the given Market for the given Instrument, during the trading day)</p>
→	→	270	MDEntryPx		Price	
→	→	271	MDEntrySize		Qty	
→	→	Component				
→	→	PriceLimits				
→	→	→	1148	LowLimitPrice	Price	Note: Floor Price.
→	→	→	1149	HighLimitPrice	Price	Note: Ceiling Price.
→	→	Component End				
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

4.1.5. News

This message contains news/announcements from the exchange. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	B = News
Component End				
1474	LanguageCode	Y	Language	en = English el = Greek Note: ISO 639-1 Language Code
148	Headline	Y	String	
Component	LinesOfTextGrp	Y		
→ RG Start 33	NoLinesOfText	Y	NumInGroup	Note: Integer.
→ → 58	Text	Y	String	Note: Max. 80 characters.
→ RG End				
Component End				
60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.

4.2. Order Depth

This group disseminates the instructions needed to construct each instrument's order depth book at its current state. These messages are not sent for Standard Combination instruments.

4.2.1. Empty Book

This message is sent whenever the order depth book of an instrument is empty when the snapshot cycle is disseminated. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType	Y	Int	3 = Order Depth
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→ 20001	ATHEXMarketID	Y	Char	

Component End					
Component		MDFullGrp	Y		
→	RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	Y	Char	J = Empty book
→	→	60	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End				
Component End					

4.2.2. Order Depth Update

This message contains the necessary instructions needed to construct an instrument's order depth book at its current state. This message type is not transmitted for combinations. The message will have the following format:

Tag	Name	R	Data Type	Value
Component		StandardHeader	Y	
→	35	MsgType	Y String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType	Y	Int	3 = Order Depth
Component		Instrument	Y	
→	55	Symbol	Y String	Note: Max. 15 alphanumeric characters.
→	20011	ATHEXSecurityCategory	Y Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo
→	167	SecurityType	Y String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked

→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).	
→	20001	ATHEXMarketID	Y	Char		
Component End						
Component		MDFullGrp	Y			
→	RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.	
→	→	269	MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer
→	→	20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)
→	→	270	MDEntryPx		Price	
→	→	271	MDEntrySize	Y	Qty	
→	→	290	MDEntryPositionNo	Y	Int	
→	→	37	OrderID	Y	String	Note: 8 Numeric Characters. Unique for the day.
→	→	39	OrdStatus	Y	Char	2 = Filled 4 = Cancelled C = Expired Custom Values: I = Inactive N = Not Released O = Open
→	→	14	CumQty	Y	Qty	Note: Matched Volume.
→	→	59	TimeInForce	Y	Char	0 = Day (or Session) 1 = Good Till Cancel (GTC) 2 = At the Opening (OPG) 3 = Immediate or Cancel (IOC) 4 = Fill or Kill (FOK) 6 = Good Till Date (GTD) 7 = At the Close
→	→	40	OrdType		Char	1 = Market 3 = Stop 4 = Stop Limit 7 = Limit or Better
→	→	20003	ATHEXSpecialCondition		Char	A = All or None I = Stop Index M = Minimum Fill O = Multiple of S = Stop Instrument
→	→	20004	ATHEXConditionVolume		Qty	Note: Used to represent volume when ATHEXSpecialCondition = M or ATHEXSpecialCondition = O.
→	→	20005	ATHEXOrderEntryDate	Y	LocalMktDate	Note: YYYYMMDD format.
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

4.3. Top of Book

This group disseminates the instructions needed to construct each instrument's top of book at its current state.

4.3.1. Empty Book

This message is sent whenever the top of book of an instrument is empty when the snapshot cycle is disseminated. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType	Y	Int	1 = Top of Book
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked
→ 207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).

→	20001	ATHEXMarketID	Y	Char	
Component End					
Component		MDFullGrp	Y		
→	RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	Y	Char	J = Empty book
→	→	264	Y	Int	1 = Top of Book
→	→	60	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End				
Component End					

4.3.2. Top of Book Update

This message contains the necessary instructions needed to construct an instrument's top of book at its current state. The message will have the following format:

Tag	Name	R	Data Type	Value	
Component		StandardHeader	Y		
→	35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End					
1021	MDBookType	Y	Int	1 = Top of Book	
Component		Instrument	Y		
→	55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→	20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→	167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFNRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note

					TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked	
→	207		SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	20001		ATHEXMarketID	Y	Char	
Component End						
Component			MDFullGrp	Y		
→	RG 268		NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer
→	→	270	MDEntryPx	Y	Price	
→	→	271	MDEntrySize	Y	Qty	Note: Contains the total ATO+Market/ATC volume when 269=MDEntryType is b="Market bid" or c="Market offer".
→	→	264	MarketDepth	Y	Int	1 = Top of Book
→	→	1023	MDPriceLevel		Int	
→	→	346	NumberOfOrders	Y	Int	
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

4.4. Price Depth 5/10

This group disseminates the instructions needed to construct each instrument's price depth 5/10 book at its current state.

4.4.1. Empty Book

This message is sent whenever the price depth 5/10 of an instrument is empty when the snapshot cycle is disseminated. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType	Y	Int	2 = Price Depth
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked

→	207	SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	20001	ATHEXMarketID	Y	Char	
Component End					
Component		MDFullGrp	Y		
→	RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→	→	269	Y	Char	J = Empty book
→	→	264	Y	Int	5 = 5 Levels 10 = 10 Levels
→	→	60	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End				
Component End					

4.4.2. Price Depth Update

This message contains the necessary instructions needed to construct an instrument's price depth 5/10 book at its current state. The message will have the following format:

Tag	Name	R	Data Type	Value
Component		StandardHeader	Y	
→	35	MsgType	String	W = MarketDataSnapshotFullRefresh
Component End				
1021	MDBookType	Y	Int	2 = Price Depth
Component		Instrument	Y	
→	55	Symbol	String	Note: Max. 15 alphanumeric characters.
→	20011	ATHEXSecurityCategory	Y	Int 0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→	167	SecurityType	Y	String CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFNRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US

					TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note WAR = Warrant XLINKD = Indexed Linked	
→	207		SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).
→	20001		ATHEXMarketID	Y	Char	
Component End						
Component			MDFullGrp	Y		
→	RG 268		NoMDEntries	Y	NumInGroup	Note: Integer
→	→	269	MDEntryType	Y	Char	0 = Bid 1 = Offer b = Market bid c = Market offer
→	→	270	MDEntryPx	Y	Price	
→	→	271	MDEntrySize	Y	Qty	Note: Contains the total ATO+Market/ATC volume when 269=MDEntryType is b="Market bid" or c="Market offer".
→	→	264	MarketDepth	Y	Int	5 = 5 Levels 10 = 10 Levels
→	→	1023	MDPriceLevel		Int	
→	→	346	NumberOfOrders	Y	Int	
→	→	60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→	RG End					
Component End						

4.5. Trades

This group disseminates all trades and trade cancellations that have happened so far in the current trading session for each instrument.

4.5.1. Trade

This message contains the details of a trade or trade cancellation that happened during the current trading session. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	Note: Max. 15 alphanumeric characters.
→ 20011	ATHEXSecurityCategory	Y	Int	0 = Stock / Rights 1 = ETF 2 = Warrant 5 = Bond 6 = Option 7 = Future 8 = Repo 9 = Standard Combination
→ 167	SecurityType	Y	String	CB = Convertible Bond CORP = Corporate Bond CPP = Corporate Private Placement CS = Common Stock DUAL = Dual Currency EUCORP = Euro Corporate Bond EUFNRN = Euro Corporate Floating Rate Notes EUSOV = Euro Sovereigns FUT = Future MF = Mutual Fund (Exchange-Traded Fund) MLEG = Multileg Instrument NONE = No Security Type OOF = Options on Futures OPT = Option PS = Preferred Stock REPO = Repurchase STRUCT = Structured Notes TB = Treasury Bill - non US TCAL = Principal Strip Of A Callable Bond Or Note TINT = Interest Strip From Any Bond Or Note TIPS = Treasury Inflation Protected Security TPRN = Principal Strip From A Non-Callable Bond Or Note

						WAR = Warrant XLINKD = Indexed Linked	
→	207		SecurityExchange	Y	Exchange	Note: Venue ID (ISO 10383 MIC).	
→	20001		ATHEXMarketID	Y	Char		
Component End							
Component			MDFullGrp	Y			
→	RG 268		NoMDEntries	Y	NumInGroup	Note: Integer.	
→	→	269	MDEntryType	Y	Char	2 = Trade	
→	→	20002	ATHEXBoardID	Y	Char	B = Pre-Agreed F = Forced Sales (with the Hit and Take method) M = Main O = Odd Lot S = Special Terms (with the Hit and Take method)	
→	→	270	MDEntryPx	Y	Price		
→	→	271	MDEntrySize	Y	Qty		
→	→	277	TradeCondition		String	0 = Cancel	
→	→	1003	TradeID	Y	String	Note: 6 Numeric Characters. Unique for the day.	
→	→	1024	MDOriOriginType	Y	Int	0 = Book 1 = Off-Book 3 = Quote Driven Market 5 = Auction Driven Market	
→	→	625	TradingSessionSubID	Y	String	2 = Opening 3 = (Continuous) Trading 4 = Closing 5 = Post-Trading	
→	→	1115	OrderCategory		Char	3 = Privately Negotiated Trade	
→	→	Component			TrdRegPublicationGrp		
→	→	→	RG 2668		NoTrdRegPublications	NumInGroup	
→	→	→	→	2669	TrdRegPublicationType	Int	0 = Pre-Trade Transparency Waiver
→	→	→	→	2670	TrdRegPublicationReason	Int	0 = No Preceding Order in Book as Transaction Price Set Within Average Spread of a Liquid Instrument (NLIQ) 1 = No Preceding Order in Book as Transaction Price Depends on System-Set Reference Price for an Illiquid Instrument (OILQ) 2 = No Preceding Order in Book as Transaction Price Is Subject to Conditions Other Than Current Market Price (PRIC) 3 = No Public Price for Preceding Order as Public Reference Price Was Used for Matching Orders (RFPT) 4 = No Public Price Quoted as Instrument Is Illiquid (ILQD) 5 = No Public Price Quoted Due to Size (SIZE)
→	→	→	RG End				
→	→	Component End					
→	→	Component			TradePriceConditionGrp		

→	→	→	RG 1838	NoTradePriceConditions		NumInGroup	
→	→	→	→ 1839	TradePriceCondition		Int	13 = Special Dividend
→	→	→	RG End				
→	→		Component End				
→	→	2667		AlgorithmicTradeIndicator	Y	Int	0 = Non-Algorithmic Trade 1 = Algorithmic Trade
→	→	1390		TradePublishIndicator	Y	Int	1 = Publish Trade
→	→	570		PreviouslyReported	Y	Boolean	N = Not Reported to Counterparty or Market Y = Previously Reported to Counterparty or Market
→	→	20006		ATHEXTotalVolume	Y	Qty	Note: The total number of stocks/contracts traded up to that point.
→	→	20007		ATHEXTradeValue	Y	Qty	Note: Notional Amount.
→	→	60		TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.sssss format.
→			RG End				
			Component End				

4.6. FTSE (Special Group)

This is a special group that disseminates the index value of the FTSE index for the current session and is exclusive to the XATH venue.

4.6.1. Index Value

This message contains the index value for the FTSE index for the current session. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	FTSE
→ 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ 207	SecurityExchange	Y	Exchange	XATH
Component End				
Component	MDFullGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

4.7. MSCI General (Special Group)

This is a special group that disseminates the base & closing index value for the MSCI Greece Rebased index for the current session and is exclusive to the XATH venue.

4.7.1. Index Value

This message contains the base or closing index value of the MSCI Greece Rebased index for the current session. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	MXGRR
→ 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ 207	SecurityExchange	Y	Exchange	XATH
Component End				
Component	MDFullGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

4.8. MSCI Updates (Special Group)

This is a special group that disseminates the opening & trading index value for the MSCI Greece Rebased index for the current session and is exclusive to the XATH venue.

4.8.1. Index Value

This message contains the opening or trading index value of the MSCI Greece Rebased index for the current session. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	MXGRR
→ 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ 207	SecurityExchange	Y	Exchange	XATH
Component End				
Component	MDFullGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

4.9. MSCI Delayed (Special Group)

This is a special group that disseminates the index value for the MSCI Greece Rebased index for the current session and is exclusive to the XATH venue.

4.9.1. Index Value

This message contains the index value of the MSCI Greece Rebased index for the current session. The message will have the following format:

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	W = MarketDataSnapshotFullRefresh
Component End				
Component	Instrument	Y		
→ 55	Symbol	Y	String	MXGRRD
→ 20011	ATHEXSecurityCategory	Y	Int	3 = Stock Index
→ 207	SecurityExchange	Y	Exchange	XATH
Component End				
Component	MDFullGrp	Y		
→ RG 268	NoMDEntries	Y	NumInGroup	Note: Integer.
→ → 269	MDEntryType	Y	Char	3 = Index Value
→ → 270	MDEntryPx	Y	Price	
→ → 20008	ATHEXIndexType	Y	Char	B = Base Index C = Closing Index O = Opening Index T = Trading Index
→ → 60	TransactTime	Y	UTCTimestamp	Note: YYYYMMDD-HH:MM:SS.ssssss format.
→ RG End				
Component End				

5. TCP/IP Retransmission Service Messages

This section contains the format of FIX messages used exclusively by the TCP/IP Retransmission Service. The “Header” and “Trailer” components of these messages are identical to the ones described in [section 2](#) of this document.

5.1. 3 = Reject

The TCP/IP Retransmission Service will send this message as a response to an invalid “BW = ApplicationMessageRequest” message in case of a Session-Level validation error.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→	35	Y	String	3 = Reject
Component End				
45	RefSeqNum	Y	SeqNum	Note: Reference message sequence number.
58	Text	Y	String	Note: Text explaining the rejection reason.

5.2. 5 = Logout

The TCP/IP Retransmission Service will send this message as a response to a failed logon attempt or after the retransmission has been completed.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→	35	Y	String	5 = Logout
Component End				
58	Text	Y	String	Note: Text explaining the logout reason.

5.3. A = Logon

This message is sent by the client as the first message when opening a session with the TCP/IP Retransmission Service. The TCP/IP Retransmission Service will also send this message as a response to a successful logon attempt.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→	35	Y	String	A = Logon
Component End				
98	EncryptMethod	Y	Int	0 = None
108	HeartBtInt	Y	Int	Note: Value will always be “0”. No heartbeat messages will be sent via the retransmission service.
1137	DefaultApplVerID	Y	String	9 = FIX50SP2
553	Username	Y	String	
554	Password	Y	String	
925	NewPassword		String	Note: This tag must be filled when sending the first logon message in order to change the user’s password from the

			default value. The user may also fill this tag any time they wish to change their password. Note: The password must be at least 12 characters long and contain at least one of each: uppercase letters, lowercase letters, numbers, and special characters.
--	--	--	---

5.4. BW = ApplicationMessageRequest

The client should send this message, following a successful logon attempt, to request the retransmission of a range of messages from a multicast group.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	BW = ApplicationMessageRequest
Component End				
1346	ApplReqID	Y	String	Note: Unique identifier for request. The first request of the day should contain the value "1" and each subsequent request should contain the previous request's ID incremented by 1.
1347	ApplReqType	Y	Int	0 = Retransmission of application messages for the specified Applications.
20012	ATHEXMessageEncoding		Int	0 = FAST Note: Absence of this field implies FAST encoding.
Component	ApplIDRequestGrp	Y		
→ RG Start 1351	NoApplIDs	Y		Note: Value must always be "1".
→ → 1355	RefApplID	Y	String	Note: Identifier for the Multicast Group for which to request retransmission (e.g. "XATH_CASH_GENERAL"). This value is present in tag "1180 = ApplID" of all market data messages, suffixed by "_INCR" or "_SNAP" which should be removed before sending a request.
→ → 1182	ApplBegSeqNum		SeqNum	Note: Required for "1347 = ApplReqType" = 0. Message sequence number of first message in range to be retransmitted.
→ → 1183	ApplEndSeqNum		SeqNum	Note: Required for "1347 = ApplReqType" = 0. Message sequence number of last message in range to be retransmitted. If the value is "0", messages will be retransmitted until either the limit per request is reached, or until there are no more messages left to send for the requested multicast group.
→ RG End				
Component End				

5.5. BX = ApplicationMessageRequestAck

The TCP/IP Retransmission Service will send this message as a response to a “ApplicationMessageRequest” message.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	BX = ApplicationMessageRequestAck
Component End				
1353	ApplResponseID	Y	String	Note: Unique identifier for the request acknowledgement. The value will be a copy of the associated request’s tag “1346 = ApplReqID” value with the character “A” appended.
1346	ApplReqID	Y	String	Note: Identifier of the request associated with this ACK message.
1347	ApplReqType	Y	Int	0 = Retransmission of application messages for the specified Applications.
1348	ApplResponseType	Y	Int	0 = Request successfully processed 1 = Application does not exist 2 = Messages not available Custom Values: 100 = User not authorized
Component	ApplIDRequestAckGrp			
→ 1351	NoApplIDs	Y		Note: Value will always be “1”.
→ → 1355	RefApplID	Y	String	Note: Identifier for the Multicast Group for which the retransmission was requested.
→	RG End			
Component End				
58	Text	Y	String	Note: Response description.

5.6. BY = ApplicationMessageReport

The TCP/IP Retransmission Service will send this message to the client inform them about the end of a retransmission.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	BY = ApplicationMessageReport
Component End				
1356	ApplReportID	Y	String	Note: Unique identifier for report. The value will be a copy of the associated request's tag "1346 = ApplReqID" value with the character "R" appended.
1346	ApplReqID	Y	String	Note: Identifier of the request associated with this report message.
1426	ApplReportType	Y	Int	3 = Application message re-send completed.
Component	ApplIDReportGrp	Y		
→ RG Start 1351	NoApplIDs	Y		Note: Value will always be "1".
→ → 1355	RefApplID	Y	String	Note: Identifier for the Multicast Group for which the retransmission was requested.
→ → 1357	RefApplLastSeqNum	Y	SeqNum	Note: The message sequence number of the last message in the retransmission.
→ RG End				
Component End				

5.7. UEFD = EncapsulatedFASTData

The TCP/IP Retransmission Service will send these messages when retransmitting the requested FAST messages.

Tag	Name	R	Data Type	Value
Component	StandardHeader	Y		
→ 35	MsgType	Y	String	Custom Values: UEFD = EncapsulatedFASTData
Component End				
95	RawDataLength	Y	Length	Note: Number of bytes in raw data field. Will always be the first tag after the header.
96	RawData	Y	Data	Note: Contains the FAST message which was broadcasted in the Multicast Group