

Hf MeffGate M5.13

Fix Interface Specifications (Public information)

12 May 2023



Changes made in the latest revision

Outlined below are the main changes made in the version M5.13 (since the public information of version M5.4 on 14 June 2018):

- Trading mode. New value TradingSessionID [336] = 118 (xRolling on Stocks). Indication of Interest, Market Data Snapshot Full Refresh and Trading Session Status messages
- Trading mode. New value StipulationType [233] = 118 (xRolling on Stocks). Security List and Security List Update Report messages
- Security List and Security List Update Report: new EventType 167, 168, 169, 170, 171, 172 y
 173 for xRolling stocks are added
- Modify description of MDOriginType [1024] value 0. Market Data Snapshot Full Refresh message
- Logon message sent by HF MEFFGate. New user field: Current business session date.
 BusinessSessionDate [21505].

Outlined below are the main changes from the documentation published on 18 May 2021:

- Adapt to new "Codification tables" document, unified for all BME Exchanges
- Security List and Security List Update Report: Correct mistake in LegPrice [566], this field belongs to group <InstrumentLeg>
- Market Data Snapshot Full Refresh message. The flag 865=212 covers both pretransparency and post-transparency.
- Include the Indication of Interest operation in the RFQ section.
- New value for TradingSessionSubID [625]=204 in table 'Level2 Trading Mode' in section 'X-Ref MMT-FIX'
- 'End of a FIX session started by the receiver' diagram should only have one arrow from Server to Client
- New table 'Level 3.9 Algorithmic Indicator' in section 'X-Ref MMT-FIX'
- Market Data Snapshot Full Refresh message. New tag 2667 'AlgorithmicTradeIndicator'
- Market Data Snapshot Full Refresh message. Change the description of the E and F values of tag 269 [MDEntryType]



Outlined below are the main changes from the documentation published on 12 January 2022:

- Expand description of tag 864 in message Market Data Snapshot Full Refresh
- Market Data Snapshot Full Refresh message, tag273 must be present when tag269=6
- Security List Request message, tag263 must be present

Outlined below are the main changes from the documentation published on 27 September 2022:

Adaptation of the document to the new corporate template



Contents

Cha	nges	made in the latest revision	2
1	Intro	oduction	6
	1.1	Scope of this manual	
	1.2	Public information	
	1.3	Structure of manual	7
	1.4	Format of the message definition tables	8
	1.5	Related documents	8
2	Impl	ementation decisions	9
	2.1	Description	
	2.2	Fields ignored	9
	2.3	Unsupported fields	
	2.4	Length of String type	9
	2.5	Maximum length of message	
	2.6 2.7	Encryption	
		·	
3		Session	
	3.1	Introduction	
	3.2	FIX session and communication session.	
	3.3	Identification of the FIX session	
	3.4	Client software and FIX sessions	
	3.5 3.6	Start of the FIX session	
	3.7	High availability	
	3.8	List of messages	
	3.9	Message flow	
	3.10	Annotations and adaptations of FIX 5.0	.15
	3.11		
		3.11.1 Standard Message Header	
		3.11.2 Standard Message Trailer	
		3.11.3 Logon (Msg Type = A)	
		3.11.4 Logout (Msg Type = 5)	.22
		3.11.5 Heartbeat (Msg Type = 0)	
		3.11.6 Test Request (Msg Type = 1)	
4		eral conventions in application messages	
	4.1	Instrument block	
		4.1.1 SecurityType [167]	
		4.1.2 Underlying asset (SecurityID [48] field)	
		4.1.4 Combination of selection criteria	
	4.2	Limitation on the maximum permitted number of subscriptions	
	4.3	Reception of public information from a particular point in the session	
	4.4	Fields not informed on receipt of information	
	4.5	Timestamp format	
	4.6	SeqNum data types	.31
	4.7	X-Ref MMT-FIX	.32
5	Com	nmon Application Messages	.36
	5.1	Introduction	
	5.2	Network communication status	
	5.3	Password change	
	5.4	Rejection of application messages	
	5.5	List of messages	
	5.6	Message flow	
	5.7	Annotations and adaptations of FIX 5.0	
	5.8	Definition of messages	
		5.8.1 Network Counterparty System Status Request (Msg Type = BC)	
		5.8.2 Network Counterparty System Status Response (Msg Type = BD)	. 39



		5.8.3 User Request (Msg Type = BE)	
		5.8.4 User Response (Msg Type = BF)	41
		5.8.5 Business Message Reject (MsgType = j)	42
6	Mar	ket Information	43
	6.1	Introduction	
	6.2	Market information: Session status	
	-	6.2.1 Description	
		6.2.2 List of messages	
		6.2.3 Message flow	
		6.2.4 Annotations and adaptations of FIX 5.0	
	6.3	Market information: Securities	
	0.0	6.3.1 Description	
		6.3.2 Request security information	
		6.3.3 Reception of security definitions	
		6.3.4 Reception of security definitions	
		6.3.5 List of messages	
		6.3.6 Message flow	
		6.3.7 Annotations and adaptations of FIX 5.0	
	6.4	Market information: Prices	
	0.4	6.4.1 Description	
		6.4.2 Information request	
		6.4.3 Receipt of information	
		6.4.4 List of messages	
		6.4.5 Message flow	
	6.5	Definition of messages	
	0.5		
		6.5.1 Trading Session Status Request (Msg Type = g)	
		6.5.3 Security List Request (Msg Type = x)	
		6.5.5 Security List Update Report (Msg Type = BK)	
		6.5.6 Security Status Request (MsgType = e)	
		6.5.7 Security Status (MsgType = f)	
		6.5.8 Market Data Request (Msg Type = V)	
		6.5.9 Market Data Request Reject (Msg Type = Y)	90
		6.5.10 Market Data Snapshot Full Refresh (Msg Type = W)	
7	RFC	Q and Indication of Interest	
	7.1	Introduction	101
	7.2	List of messages	101
	7.3	Message flow	102
	7.4	Annotations and adaptations of FIX 5.0	102
	7.5	Definition of messages	
		7.5.1 Indication of Interest (Msg Type = 6)	103
8	Con	mmunication of Events	105
-	8.1	Introduction	
	8.2	List of messages	
	8.3	Message flow	
	8.4	Annotations and adaptations of FIX 5.0	
	8.5	Definition of messages	
		8.5.1 News (Msg Type = B)	
Hee	r Fial	lds	107
U36		M3	



1 Introduction

1.1 Scope of this manual

This document contains the definition of the MEFF trading system interface provided by MEFF for developing external applications. The interface is based on version 5.0 of the FIX Protocol standard (Financial Information exchange). More detailed information about the standard can be found in reference document 1 (see 1.5) or on the website www.fixprotocol.org.

The interface follows the FIX 5.0 specifications, as far as possible. In the majority of cases the structure and semantics of the messages are identical to the standard.

In some cases, the protocol has been extended to cover functions not considered by the standard. These extensions are clearly detailed in the document.

In other cases, the standard is ambiguous or indicates that the details should be mutually defined by the parties. In these cases the manual provides a detailed description to avoid any possible ambiguity.

All annotations and adaptations of the standard have been done in accordance with the recommendations in the standard.

To avoid possible duplication in the sources of information, this document does not include explanations of those matters that comply exactly with the standard. Therefore, the standard documentation should be considered as the main source of information for any matter that is not explicitly covered in this manual.

This is a reference document for those Members and ISVs that wish to develop software that can process market data using the HF MEFFGate server FIX interface.

1.2 Public information

The following table displays the public functions and their related messages.

Public function	Related messages
Obtain session status	Trading Session Status Request
Obtain Session Status	Trading Session Status
	Security List Request
	Security List
Obtain information on securities	Security List Update Report
	Security Status Request
	Security Status
	Market Data Request
Obtain information on prices	Market Data Request Reject
	Market Data – Snapshot / Full Refresh
Obtain information about RFQ	Indication of Interest
Receive information from the Market Supervisor	News



1.3 Structure of manual

The manual is divided into two parts. The first part, containing the first four chapters, gives a description of generic features of this interface.

This first chapter describes the scope of the document, its structure and introduces the related documents.

Chapter 2 "Implementation decisions" presents those annotations or restrictions arising from the implementation of the protocol defined in this manual.

Chapter 3 "FIX Session" describes those aspects related to the session level, including the detailed description of the corresponding messages.

Chapter 4 "General conventions in application messages" describes in detail specific aspects that affect the majority of the messages described in this manual.

Given the generic nature of the content, which affects all the messages, it is recommended to read chapters 2, 3 and 4 before considering other chapters.

The second part of the manual, containing the remainder of the chapters, describes the different functions supported by HF MEFFGate. Each of these chapters deals with a specific function, describing specific matters of interest.

Each of these chapters contains the following sections:

- Introduction. A brief description of the function covered in the chapter
- List of messages. List of the different messages implemented by the function
- Message flow. Description of the different scenarios for message exchange that may arise, with the corresponding message flow diagrams
- Annotations and adaptations of FIX 5.0. Details the annotations and adaptations that MEFF
 has made to the standard protocol to meet its needs
- Definition of messages. Contains a table for each message in the chapter, describing the message fields in detail



1.4 Format of the message definition tables

As explained in the previous section, a table for each message is included in those chapters where it is necessary, describing the component fields in detail.

These tables contain one field per row and have the following columns:

Column	Meaning
Tag	Field number. The fields added to the message in this implementation have an asterisk (" \ast ") after the number
Name	Name of field according to the FIX standard
Req	"Y" indicates that the field is required; "N" means that the field is optional. "Y*" means that the field is required in this implementation, but it is optional in the FIX 5.0 standard
Valid values	Accepted values for the field in the context of the message. It may be a list of values, or a range of numeric values, e.g. ">=3, <= 10". The default value for the field is also indicated in this column. To avoid confusions with the terms, the original FIX value description has been respected in the values associated with codes.
Format	Type of data in the field. It is one of the types defined by FIX, or one of these types with some additional restriction. String(n) is a String type with a maximum of n characters, or in some cases with exactly n characters. For more information on the String type, see 2.4
Description	Description of the field in the context of the message

1.5 Related documents

#	Title	Author
	Financial Information Exchange Protocol (FIX) 5.0 Service Pack 2 (9 December	
1	2013)	FIX Committee
	EP98-222 enhancing FIX 5.0 SP2	
2	HF MEFFGate – FIX Interface Specifications T5.0	MEFF



2 Implementation decisions

2.1 Description

This chapter presents the implementation decisions made by MEFF. Those aspects that the standard leaves open and have been defined in this implementation are detailed here.

2.2 Fields ignored

In some cases, the content of certain fields of the entering messages may be ignored by HF MEFFGate. When this is the case, it is clearly stated in the field description.

2.3 Unsupported fields

The unsupported fields of a message are not included in its description.

Messages sent to HF MEFFGate should not contain unsupported fields. Messages sent by HF MEFFGate never contain unsupported fields.

No required fields have been declared unsupported.

2.4 Length of String type

The FIX standard does not place any restriction on the maximum length of the String type. In this implementation the maximum length is 255 characters.

In some fields, a shorter maximum length has been established. In these cases, the type is presented as String(n), where "n" is the maximum number of characters of the field. In certain cases "n" indicates the exact length of the field, in which case it will be explicitly stated in the valid values column.

2.5 Maximum length of message

The maximum length of the messages sent or received by HF MEFFGate is 4096 bytes.

2.6 Encryption

HF MEFFGate does not use the encryption defined in the FIX standard (using the SecureData and SecureDataLen fields in the message header). The encryption is implemented through the use of SSL (Secure Socket Layer).

2.7 Identification of the HF MEFFGate FIX protocol

HF MEFFGate implements an additional function that allows both parties to agree on the HF MEFFGate FIX version that they are going to use.

It is important to distinguish between the version of the FIX protocol (in this case "5.0") and the version of the HF MEFFGate FIX protocol ("M5.13" in this edition).

More than one version of the HF MEFFGate FIX protocol may exist for the same version of FIX.

If the version requested by the client program is not available in the HF MEFFGate server in use, it will return a Logout Message with the corresponding explanatory message.



3 FIX Session

3.1 Introduction

The level of the FIX session guarantees the complete delivery of messages between both parties, without errors. HF MEFFGate implements the majority of the functions of the session level defined in the FIX 5.0 standard

3.2 FIX session and communication session

There are two types of session:

- Communication session. It begins when opening the socket (ip-address and port assigned to this service). It ends when the socket is closed.
- FIX session. This begins when a request to start a session (Logon message) is accepted. It ends when the communication is completed, preferably with the exchange of Logout messages This is a combination of two-way messages identified by a sequence of consecutive numbers. A FIX session begins when the sequence numbers of both parties are restarted with the value 1. There is no explicit way of ending a FIX session; a session ends when a new one begins.

In addition to the two mentioned types of sessions, the trading session should also be considered. A trading session in an environment begins each day when the HF MEFFGate server loads the trading system data and accepts connections for said session.

The client program must begin a new FIX session in every communication session.

Given that HF MEFFGate does not provide 24-hour support for the service, the ResetSeqNumFlag field is not required in the Logon message.

3.3 Identification of the FIX session

Once a communication session has been established, HF MEFFGate identifies the associated FIX session using four fields in the Logon message sent by the initiator:

- SenderCompID
- SenderSubID
- TargetCompID
- TargetSubID

SenderCompID identifies the member and SenderSubID identifies the trader. TargetCompID together with TargetSubID identify the environment.

No more than one FIX session can exist at a time with the same values for these four fields.



The SenderCompID, SenderSubID, TargetCompID and TargetSubID fields are present in all the FIX messages. All the messages belonging to the same FIX session must have the same values in these fields. If a message is received with values that do not correspond with those of the session, it will be rejected with a Reject message.

It should be noted that the values of these fields are inverted when the message is sent by HF MEFFGate, with respect to those sent by the client. Suppose that trader "001" of member "A001" has a session established with the Financial Contract Group at MEFF. The messages will be those shown below:

Client message to HF MEFFGate:

- SenderCompID = "A001"
- SenderSubID = "001"
- TargetCompID = Operating MIC
- o TargetSubID = "M3" *

HF MEFFGate message to client:

- SenderCompID = Operating MIC
- SenderSubID = "M3"
- TargetCompID = "A001"
- o TargetSubID = "001"

The list of values for TargerCompID/SenderCompID used by BME is located in codification table 2.

The list of values for TargetSubID/SenderSubID used by BME is located in codification table 1.

3.4 Client software and FIX sessions

A HF MEFFGate client is a software development that connects to MEFF through a HF MEFFGate server.

As noted in 3.3, a FIX session is limited to one user and one contract group. A client will be able to establish various FIX sessions simultaneously to access more than one contract group or trade in one contract group with various user codes.

A HF MEFFGate server can provide service to various sessions simultaneously, be they of the same client or various clients.

When a FIX client tries to connect with a contract group that is not available, his Logon message is answered with a Logout message with the appropriate explanation.

3.5 Start of the FIX session

On initiating a new communication session (opening a new socket), the client must initiate a new FIX session. The procedure to follow is described below.

Start a new FIX session: The value to be used in the MsgSeqNum field of the Logon message must be 1.

It should be taken into account that any subscription to information is cancelled when the FIX session ends. If this service is required when reinitiating a FIX session, it must be requested again.



3.6 Synchronisation at application level

When a client starts a FIX session (Logon message accepted), it receives a series of information related with the current Segment session.

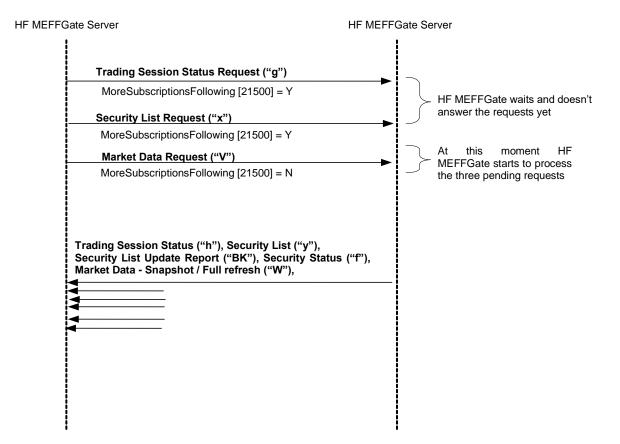
To synchronise at the application level, the client may use the tags ApplID [1180] + ApplSeqNum [1181]. Value 0 in ApplID [1180] and ApplSeqNum [1181] means updates from the beginning of the business session. If this field is not specified, then the classical behaviour is assumed (snapshot of the current situation and updates from this time).

It is recommended the use of the user defined tag MoreSubscriptionsFollowing [21500], (MoreSubscriptionsFollowing [21500] = "Y"), in the subscription request. This way allows to group market information subscription requests (Trading Session Status Request, Security List Request, Security Status Request and Market Data Request) and to establish the moment in which the HF MEFFGate will begin to treat those requests. It can be combined with the reception of public information from a particular point in session to handle connections after a disconnection. Messages will be sent in the same order in which they were generated during the session; this implies that it is possible to receive Market Data Snapshot Full Refresh while receiving Security List Update Report.

When this tag is used, MoreSubscriptionsFollowing [21500] = "Y", HF MEFFGate will leave the different subscriptions requests pending and will not process them until a subscription request with MoreSubscriptionsFollowing [21500] = "N", is received. HF MEFFGate will assume that from this moment no subsequent subscription requests will be received and therefore any subsequent request will be rejected. Below is an example of how the tag MoreSubscriptionsFollowing [21500] is used.

If this tag is not used (or MoreSubscriptionsFollowing [21500] = "N" for all subscriptions), the current behaviour will be maintained, i.e. an immediate reply to each subscription request.

Below there is a message flow using the tag MoreSubscriptionsFollowing [21500]:





It should be taken into account that any subscription to information is cancelled when the FIX session ends. If this service is required when reconnecting to a new session, it must be requested again.

The series of messages not associated to subscriptions referred to in this section correspond to the following messages:

News

3.7 High availability

To improve the availability of access to MEFF there will be various instances of the HF MEFFGate server executing in different computers.

All the instances of HF MEFFGate will be connected with the central systems of MEFF. Therefore, they will have all the necessary information.

When a HF MEFFGate server fails, the client can continue working with another HF MEFFGate. The client must carry out the necessary processes to synchronise at the application level using the tags ApplID [1180] + ApplSeqNum [1181].

When a client application that has established a FIX session fails, the client application can synchronise at the application level from another equipment following the same procedure described in the previous paragraph.

3.8 List of messages

The functionality at the session level is implemented in FIX 5.0 using five administrative messages. All these are fully supported by the HF MEFFGate FIX protocol.

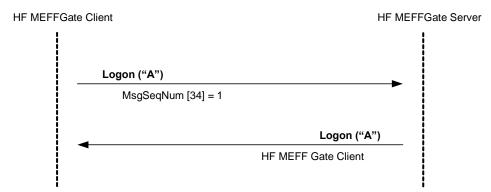
Message	Description
Logon (Msg Type = A)	Request or confirmation of the start of a FIX session
Logout (Msg Type = 5)	Request or confirmation of the end of a FIX session
Heartbeat (Msg Type = 0)	Periodic notification that the connection is alive
Test Request (Msg Type = 1)	Request to send a Heartbeat message to confirm that the connection is alive
Reject (Msg Type = 3)	Reject a message at session level



3.9 Message flow

Start of FIX session

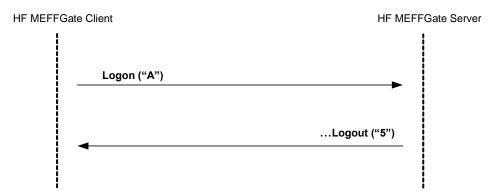
A request to start a FIX session (Logon message) that is accepted is replied to by the receiver with another Logon message. The initiator must not send another message until it has received this confirmation of acceptance.



Start of FIX session rejected

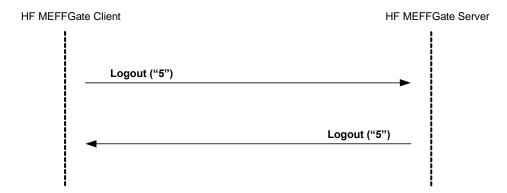
When the start of a FIX session (Logon message) is not accepted, HF MEFFGate will reply with a Logout message.

For more details on the behaviour of sequence numbers of both parties see section 0.



End of a FIX session started by the sender

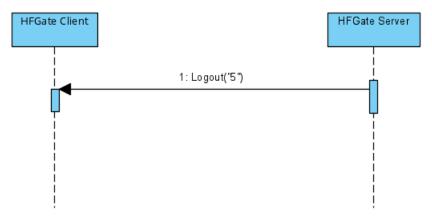
The client can end the FIX session by sending a Logout message at any time.





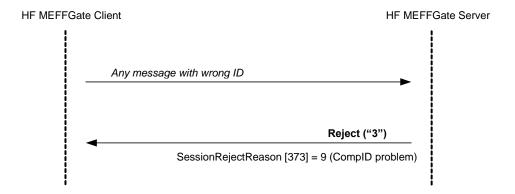
End of a FIX session started by the receiver

In exceptional circumstances, the server can end the FIX session with a Logout message.



Sending messages with identification fields of session (SenderCompID, SenderSubID, TargetCompID and TargetSubID) with different values from those associated to the current FIX session

All the messages associated to a FIX session must include the same identifying values of the session (SenderCompID, SenderSubID, TargetCompID and TargetSubID). If a message differs from the values indicated in the Logon of the session, it is rejected with a Reject message.



3.10 Annotations and adaptations of FIX 5.0

The user optional field LocalMktTimestamp [21501] has been added to the Logon message to Indicates for all tags in which a timestamp is included, the timestamp format (UTC format or local market time)

The optional fields ApplID [1180] and ApplSeqNum [1181] have been added to the Logon message to indicate that only updates from the point indicated are requested



The Text [58] and DefaultCstmApplVerID [1408] fields in the Logon message are now required

When a request to start a session (Logon message) is rejected, the receiver (MEFF) will always send a Logout message in reply

The SenderSubID [50] and TargetSubID [57] fields in the header of messages (Standard Message Header) are now required

The FIX method of encryption is not supported

The Resend Request and Sequence Reset messages are not supported (and rejected by HF MEFFGate)

The valid values of the ResetSeqNumFlag [141] field in the Logon message are limited to the value "N"

The user field BusinessSessionDate [21505] has been added to the Logon message sent by HF MEFFGate to inform the current business session date



3.11 Definition of messages

3.11.1 Standard Message Header

Header is present in all FIX messages.

Tag	Name	Req	Valid values	Format	Description
8	BeginString	Υ	FIXT.1.1	String	Indicates the start of a new message. It is always the first field of the message
9	BodyLength	Y		Int	Length of message in bytes, from the end of this field up to and including the delimiter before the Checksum field. It is always the second field of the message
35	MsgType	Υ	All message types supported by MEFF	String	Identifies the type of message. It is always the third field of the message
49	SenderCompID	Y	See chapter "3.3 - Identification of the FIX session"	String	Identifier of the entity that sends the message. It contains the operating MIC of the venue (see table 2 document "Codification tables") when the message is sent by HF MEFFGate. It must contain the member code in the messages sent by the client application.
56	TargetCompID	Y	See chapter "3.3 - Identification of the FIX session"	String	Identifier of the entity that the message is sent to. It should contain the operating MIC of the venue (see table 2 document "Codification tables") when the message is sent to HF MEFFGate, although HF MEFFGate ignores the content of this field. It contains the member code in the messages sent by HF MEFFGate.
34	MsgSeqNum	Υ		SeqNum	Sequence number of the message within the current FIX session
50	SenderSubID	γ*	See chapter "3.3 - Identification of the FIX session"	String	The messages sent from HF MEFFGate to the client contain the code assigned to the contract group with which the connection was established (see table 1 document "Codification tables").



Tag	Name	Req	Valid values	Format	Description
					Messages sent to HF MEFFGate must contain the trader code with which the FIX session was started
57	TargetSubID	Υ*	See chapter "3.3 - Identification of the FIX session"	String	The messages sent from HF MEFFGate contain the code of the trader which it is to be sent to. Messages sent to HF MEFFGate must contain the code of the contract group with which the connection was established (see
					table 1 document "Codification tables")
52	SendingTime	Υ		UTC Timestamp	Time message sent



3.11.2 Standard Message Trailer

Present in all FIX messages.

Tag	Name	Req	Valid values	Format	Description
10	CheckSum	Υ		String(3)	Checksum of the message, calculated in accordance with the standard. It is always the last field of the message and its length is exactly 3 bytes



3.11.3 Logon (Msg Type = A)

The Logon message is used to start a session by the client application and to accept it by the HF MEFFGate.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = A		
98	EncryptMethod	Υ	0 = None	Int	Ignored by HF MEFFGate
108	HeartBtInt	Y	>= 1	Int	Interval at which messages are sent to verify the connection (Heartbeat message) expressed in seconds.
141	ResetSeqNumFlag	N	N	Boolean	Only allows the value "N", as it is not required in the implementation of the protocol
789	NextExpectedMsgS eqNum	N		SeqNum	If informed only value 1 is allowed
464	TestMessageIndicat or	N	Y = Test N = Production	Boolean	Indicates whether it is a test or production session. The client can use it optionally to indicate if it wants to connect to the production or test environment. The start of a session is accepted only if this environment is valid for the HF MEFFGate If the client does not indicate anything, this parameter is not taken into account. In any event HF MEFFGate always informs this field
553	Username	N		String	Identifier of the user assigned by MEFF. Required when the message is sent by the client application. It is currently comprised of the combination of the member code and the trader code assigned by MEFF
554	Password	N		String	User Password. Required when the message is sent by the client application
1137	DefaultApplVerID	Υ	9	String	Value 9 refers to FIX50SP2
1408	DefaultCstmApplVe rID	Υ*	M5.13	String	Exact identification of the version of the protocol used and expected by the client application
58	Text	γ*		String	The client must include a descriptive string of the software name used by the FIX connection. This will be one that has passed the corresponding conformance test



Tag	Name	Req	Valid values	Format	Description
1180 *	ApplID	N N	vanu values	String	If provided, only updates from the point indicated will be sent. This value, used in conjunction with ApplSeqNum [1181], should match in the same field in any of the messages provided by the HF MEFFGate such as: Market Data Snapshot Full Refresh, Security List, Security List Update Report, Security Status,
1181	ApplSeqNum	N		SeqNum	Required if ApplID [1180] is specified. This value, used in conjunction with ApplID [1180], should match the same field in any of the messages provided by the HF MEFFGate such as: Market Data Snapshot Full Refresh, Security List, Security List Update Report, Security Status,
2150 1*	LocalMktTimestamp	N	Y, N (default)	String	Indicates, for all tags in which a timestamp is included, the timestamp format: Y – HF MEFFGate will send the local market time (all messages up to microseconds) N – HF MEFFGate will send the the time in UTC format according to the FIX standard (all messages up to microseconds) For more information see 4.5
2150 5*	BusinessSessionDat e	N		LocalMktDat e	Current business session date. This tag is only informed in the Logon response message sent by HF MEFFGate. The client application should not send this tag in the Logon message sent to HF MEFFGate.
	Standard Trailer	Υ			



3.11.4 Logout (Msg Type = 5)

The Logout message is used by both parties to request the end of a communication session and to accept said request.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = 5		
58	Text	N		String	Explanatory text
	Standard Trailer	Υ			



3.11.5 Heartbeat (Msg Type = 0)

The Heartbeat message is used by both parties to indicate that the connection is active.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = 0		
112	TestReqID	N		String	If the message is the reply to a Test Request message, it must contain the same value as the original TestReqID field. Otherwise, this field should be
	Standard Trailer				omitted.



3.11.6 Test Request (Msg Type = 1)

The Test Request message is used by both parties to request that a Heartbeat message be sent.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = 1		
112	TestReqID	Υ		String	Identifier of the request. It must be included in the Heartbeat message reply
	Standard Trailer	Υ			



3.11.7 Reject (Msg Type = 3)

The Reject message is used by HF MEFFGate to reject a message that does not comply with the FIX protocol specified by MEFF.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = 3		
45	RefSeqNum	Υ		SeqNum	Sequence number of the rejected message
373	SessionRejectReason	N	0 = Invalid tag number 1 = Required tag missing 2 = Tag not defined for this message type 3 = Undefined Tag 4 = Tag specified without a value 5 = Value is incorrect (out of range) for this tag 6 = Incorrect data format for value 9 = CompID problem 11 = Invalid MsgType 13 = Tag appears more than once 14 = Tag specified out of required order 15 = Repeating group fields out of order 16 = Incorrect NumInGroup count for repeating group 17 = Non "data" value includes field delimiter (SOH character) 99 = Other	Int	Code indicating the rejection motive



Tag	Name	Req	Valid values	Format	Description
58	Text	N		String	Contains a more detailed explanation of the reason for the rejection
	Standard Trailer	Υ			



4 General conventions in application messages

4.1 Instrument block

In some requests, the FIX client may specify selection criteria for the securities. In these cases, it will only receive information on the securities that meet these criteria. The possible selection criteria correspond to the fields of the Instrument block.

The table below indicates which fields are accepted by MEFF and the type of request that can be made.

Field	Meaning
SecurityType [167]	Product type
SecurityID [48]	MEFF Underlying asset
MaturityMonthYear [200]	Contract expiration

The use of these fields is explained in detail in the following sub-sections.

4.1.1 SecurityType [167]

This code identifies the product type (see table 6 in document "Codification Tables"). Only messages sent by HF MEFFGate. Not allowed in messages sent by FIX client.

4.1.2 Underlying asset (SecurityID [48] field)

This code identifies the underlying asset of a contract (see table 7 in document "Codification Tables")

4.1.3 Expiration (MaturityMonthYear [200] field)

For contracts with standard maturities, indicates the month and year when the contract expires. In this case, the format for this field is YYYYMM (e.g. 201312)

For contracts with non-standard maturities, indicates the date when the contract expires. In this case, the format for this field is YYYYMMDD (e.g. 20131219)

For contracts with week standard maturities, the format for this field is YYYYMMwW (e.g. 201312w2).

4.1.4 Combination of selection criteria

When various selection criteria are combined, only those securities that meet all the requirements are selected. When a selection criteria is not specified it is understood that this criteria is to be ignored and no security will be discarded for this reason.



The following table shows some examples:

SecurityType [167]	SecurityID [48]	MaturityMonthYear [200]	Meaning
F	FIE	(omitted)	All futures on IBEX index
F	BBVA	(omitted)	All the BBVA futures contracts with physical delivery
(omitted)	FIE	201203	All the contracts with IBEX index as underlying, with March 2012 expiration
0	(omitted)	201206	All options with June 2012 expiration
R	TEF	(omitted)	All time-spread contracts where Telefonica stocks is underlying of at least one leg
(omitted)	(omitted)	(omitted)	All contracts
Х	(any)	(any)	Wrong selection criteria

4.2 Limitation on the maximum permitted number of subscriptions

Only one subscription per subscription type during the session is allowed, except for Market Data where up to 5 subscriptions are supported.

If, once reached that limit, the client application tries to establish new subscriptions, they will be rejected with an error message indicating that the maximum permitted number of subscriptions has been reached.

4.3 Reception of public information from a particular point in the session

It is possible to receive only the updates from a particular point in the business session indicated by the client application. For this purpose tags ApplID [1180] and ApplSeqNum [1181] are used in the Logon message. If this field is not specified then the classical behaviour is assumed (snapshot of the current situation and updates from this time for Market Data Snapshot Full Refresh and updates from the beginning of the business session for Trading Session Status, Security List and Security Status).

Value 0 in ApplSeqNum [1181] means updates from the beginning of the business session.

4.4 Fields not informed on receipt of information

If no information is received from HF MEFFGate for an specific field, then it should be considered that this has not changed since last update.

This applies, for example, to Market Data Snapshot Full Refresh and Security Status messages.



To see it better, let's consider two examples:

Example 1: Market Data request.

Initial market. This is the bid-offer situation for an specific contract:

Bid	Offer	
	10 @ 9015	
2 @ 9014		
6 @ 9012		

The following Market Data Snapshot Full Refresh message is sent:

•••

NoMDEntries [268] = 3

MDEntryType [269] = 0 (Bid)

MDEntryPx [270] = 9014

MDEntrySize [271] = 2, ...

MDEntryType [269] = 0 (Bid)

MDEntryPx [270] = 9012

MDEntrySize [271] = 6, ...

MDEntryType [269] = 1 (Offer)

MDEntryPx [270] = 9015

MDEntrySize [271] = 10, ...

...

A new change on the bid side (price 9012 is deleted):

Bid	Offer
	10 @ 9015
2 @ 9014	

HF MEFFGate communicates this update **without necessarily informing** the offer side:

...

NoMDEntries [268] = **1**

MDEntryType [269] = 0 (Bid)

MDEntryPx [270] = 9014

MDEntrySize [271] = 2, ...

...



Another new change on the bid side (last price 9014 is deleted):

Bid	Offer	
-	10 @ 9015	

HF MEFFGate communicates this update without necessarily informing the offer side:

```
...

NoMDEntries [268] = <u>1</u>

MDEntryType [269] = 0 (Bid)

MDEntryPx [270] = ...

MDEntrySize [271] = 0, ...
```

Example 2: Security Status request.

Let's assume a contract, ready to trade, with an specific price range. This is the Security Status message sent:

```
...
SecurityTradingStatus [326] = 17 (Ready to trade)
HighPx [332] = 9075
LowPx [333] = 8975
```

The security status changes to auction:

```
HF MEFFGate communicates this update <u>without necessarily informing</u> the price range (HighPx, LowPx):
```

```
...
SecurityTradingStatus [326] = 21 (Pre-Open)
```

4.5 Timestamp format

The system permits the user to define, for all tags in which a timestamp is included, whether the format is UTC (according to the FIX standard), or the local market time.

For this functionality the user defined tag LocalMktTimestamp [21501] is used in the Logon message.

When this tag is used, with LocalMktTimestamp [21501] = "Y", HF MEFFGate will send the local market time (all messages up to microseconds).



If this tag is not used (or LocalMktTimestamp [21501] = "N"), HF MEFFGate will send the time in UTC format (all messages up to microseconds).

4.6SeqNum data types

According to the FIX standard, the SeqNum data type is an int field and value must be positive. The client application must be ready to receive values greater than 2³¹.



4.7X-Ref MMT-FIX

Level 1 - Market Mechanism

MARKET MODEL TIPOLOGY message)

FIX (Market Data Snapshot Full Refresh

Full Name	Code (Efficient Mode)	MdOriginType [1024]
Central Limit Order Book	1	0
Quote Driven Market	2	3
Dark Order Book	3	4
Off Book (including Voice or Messaging Trading)	4	1
Periodic Auction	5	5
Request for quotes	6	6

Level 2 - Trading Mode

MARKET MODEL TIPOLOGY

FIX (Trading Session Status message)

Full Name	Code (Efficient Mode)	TradingSessionSubId [625]
Undefined Auction	1	8
Scheduled Opening Auction	0	2
Scheduled Closing Auction	K	4
Scheduled Intraday Auction	I	6
Unscheduled Auction	U	9
Continuous Trading	2	3
At Market Close Trading	3	5
Out of Main Session Trading	4	10
Trade Reporting (On Exchange)	5	201
Trade Reporting (On Exchange)	5	203
Trade Reporting (On Exchange)	5	204



Level 3.1 - Transaction category

MARKET MODEL TIPOLOGY message)

FIX (Market Data Snapshot Full Refresh

Full Name	Code (Efficient Mode)	EventText [868] con EventType [865] = 211
Package Trade (excluding Exchange for Physicals) "TPAC"	Z	Z
Exchange for Physicals Trade "XFPH"	Υ	Υ

Level 3.5 - Benchmark or Reference Price Indicator

MARKET MODEL TIPOLOGY

FIX (Market Data Snapshot Full Refresh message)

Full Name	Code (Efficient Mode)	TradeCondition [277]	TrdRegPublicationType [2669]	TrdRegPublicationReason [2670]
Benchmark Trade "BENC"	В	6	-	-

Level 3.8 - Ordinary/Standard Trades or Trades Outside Price Formation / Discovery Process

MARKET MODEL TIPOLOGY message)

FIX (Market Data Snapshot Full Refresh

Full Name	Code (Efficient Mode)	TradePriceCondition [1839]
Plain-Vanilla Trade	Р	-
Non-Price Forming Trade		
(formerly defined as a	T	15
Technical Trade) "NPFT"		



Level 3.9 - Algorithmic Indicator

MARKET MODEL TIPOLOGY message)

FIX (Market Data Snapshot Full Refresh

Full Name	Code (Efficient Mode)	AlgorithmicTradeIndicator [2667]
Algorithmic trade "ALGO"	Н	1
No Algorithmic trade	-	0

Level 4.1 - Publication Mode / Post-Trade Deferral Reason

MARKET MODEL TIPOLOGY FIX (Market Data Snapshot Full Refresh message)

Full Name	Code (Efficient Mode)	TradePublishIndicator [1390]	TrdRegPublicationType [2669]	TrdRegPublicationReason [2670]
Immediate Publication	-	1	-	-
Non- Immediate Publication	1	2	-	-
Non- Immediate Publication: Deferral for "Large in Scale" "LRGS"	2	2	1	6
Non- Immediate Publication: Deferral for "Illiquid Instrument" (RTS 2 only) "ILQD"	3	2	1	7
Non- Immediate Publication: Deferral for "Size Specific" (RTS 2 only) "SIZE"	4	2	1	8



Level 4.2 - Post-Trade deferral or Enrichment

MARKET MODEL TIPOLOGY message)

FIX (Market Data Snapshot Full Refresh

Full Name	Code (Efficient Mode)	RegulatoryReportType [1934]
Limited details trade "LMTF"	1	11
Daily aggregated trade "DATF"	2	12
Volume omission trade "VOLO"	3	13
Four weeks aggregation trade "FWAF"	4	14
Indefinite aggregation trade "IDAF"	5	15
Volume omission trade. Eligible for subsequent enrichment in aggregated form "VOLW"	6	16
Full details of previous LMTF "FULF"	7	17
Full details of previous DATF "FULA"	8	18
Full details of previous VOLO "FULV"	9	19
Full details of previous FWAF "FULJ"	V	20
Full details of previous VOLW "COAJ"	W	21



5 Common Application Messages

5.1 Introduction

This chapter presents some common messages at the application level that cover three functions: the control of the communication status, the individual user password change and the rejection of messages by HF MEFFGate.

5.2 Network communication status

HF MEFFGate includes a mechanism to inform the client application of the status of communication between HF MEFFGate itself and the central system. This functionality is achieved using the FIX Network Status messages.

HF MEFFGate will always send Network Counterparty System Response messages reporting on status of connection between HF MEFFGate and the central systems (whether or not the client subscribed to it).

The information supplied with these messages only refers to the connection between the equipment and should not be confused with the status of the trading session, which is covered in 6.2.

5.3 Password change

This functionality allows to change the individual user password used in the connection between the client application and HF MEFFGate.

The new password is valid for all the next future sessions between the client application and HF MEFFGate.

5.4 Rejection of application messages

When HF MEFFGate receives a supported message with correct syntax in an unsupported situation, but there is no specific rejection message, the Business Message Reject is used. In particular, this is used to reject the Network Counterparty System Status Request message.

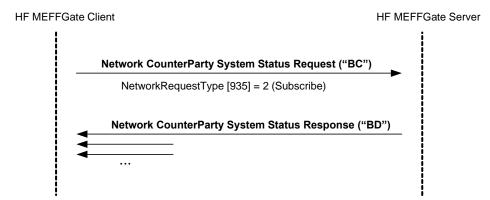
5.5 List of messages

Message	Description
Network Counterparty System Status Request (Msg Type = BC)	Request of connection status between HF MEFFGate and the central systems
Network Counterparty System Status Response (Msg Type = BD)	Report on status of connection between HF MEFFGate and the central systems
User Request (Msg Type = BE)	Individual user password change request
User Response (Msg Type = BF)	Reply to a User Request message
Business Message Reject (MsgType = j)	Rejection of message at application level (used when there is no specific message)

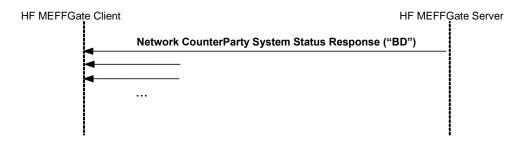


5.6 Message flow

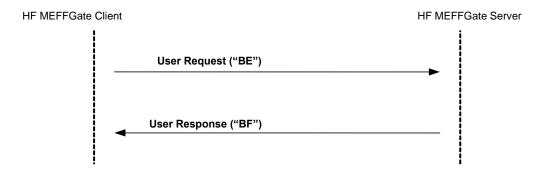
Subscription to connection status



Report on connection status without any subscription



Individual password change



5.7 Annotations and adaptations of FIX 5.0

In the User Request message, the Password [554] and NewPassword [925] fields are now required



5.8 Definition of messages

5.8.1 Network Counterparty System Status Request (Msg Type = BC)

Message sent by the client application to request information on the status of the connection between HF MEFFGate and the MEFF central systems.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = BC		
935	NetworkRequestTyp	V	2 = Subscribe	Int	
933	е	'	Z – Subscribe	1110	
933	NetworkRequestID	Υ		String(10)	Message identifier
	Standard Trailer	Υ			



5.8.2 Network Counterparty System Status Response (Msg Type = BD)

Message sent by HF MEFFGate as reply to a Network Counterparty System Status Request Message.

It has information about the connectivity between HF MEFFGate and the MEFF central systems.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = BD		
937	NetworkStatusResp onseType	Υ	1 = Full	Int	
933	NetworkRequestID	N		String	Message identifier Network Counterparty System Status Request to which it is being responded
932	NetworkResponseI D	Υ		String	Unique message identifier
936	NoCompIDs	Υ	1	NumInGrou p	
→ 930	RefCompID	Y		String	Contains the same value as the SenderCompID field in the header (see 3.3) This field is always included in the message
→ 931	RefSubID	N	See Identification of the FIX session	String	Contains the same value as the SenderSubID field in the header (see 3.3) This field is always included in the message
→ 928	StatusValue	Υ	1 = Connected 2 = Not connected - down expected up 3 = Not connected - down expected down 4 = In Process	Int	Connection status This field is always included in the message
→ 929	StatusText	N		String	Additional information
	Standard Trailer	Υ			



5.8.3 User Request (Msg Type = BE)

 $\label{thm:message} \textbf{Message sent by the client to modify the password used in their connection to the HF MEFFGate}$

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = BE		
923	UserRequestID	Υ		String (10)	Unique identifier for each User Request message
924	UserRequestType	Υ	3 – Change Password For User	Int	
553	Username	Y		String	Identifier of the user assigned by MEFF. It is currently comprised of the combination of the member code and the user code
554	Password	Υ*		String (10)	Old Password
925	NewPassword	Υ*		String (10)	New Password
	Standard Trailer	Υ			



5.8.4 User Response (Msg Type = BF)

Message sent by HF MEFFGate to notify the status of the request initiated with the User Request message.

This message is only sent to the user who made the request.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = BF		
923	UserRequestID	Υ		String	Identifier assigned by the client in the User Request message
553	Username	Υ		String	User identifier
926	UserStatus	N	5 = Password Changed 6 = Other	Int	Status of the User Request message If rejected (value 6) , there is an explanation in the UserStatusText field
927	UserStatusText	N		String	When UserStatus = 6 there is an explanation of the rejection
	Standard Trailer	Υ			



5.8.5 Business Message Reject (MsgType = j)

Message sent by HF MEFFGate when it receives a supported message that is syntactically correct in an unsupported situation, and there is no specific rejection message. It is especially used to reject a Network Counterparty System Status Request message.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = j		
45	RefSeqNum	N		SeqNum	When present, indicates MsgSeqNum of the rejected message.
					If value zero, the content of this field should not be considered.
372	RefMsgType	Υ	•	String	MsgType of the rejected message
379	BusinessRejectRefI D	N		String	Optional Identifier of the rejected message
380	BusinessRejectReas on	Y	0 = Other 3 = Unsupported Message Type	Int	Reason for rejection
58	Text	N		String	Explanation of rejection
	Standard Trailer	Υ			



6 Market Information

6.1 Introduction

Market information groups together various functionalities related to public market information, which are classified into three groups:

- Session status. Status of trading session
- **Security information**. Definition and status of securities selected
- Prices. Prices in selected securities

Each of these groups is covered in a separate section of this chapter. Section 6.5 provides details of the format of the corresponding messages.



6.2 Market information: Session status

6.2.1 Description

This functionality allows the client to obtain the status for the contract group associated to the current FIX session and to be notified of the changes of status that occur.

6.2.2 List of messages

Message	Description
Trading Session Status Request (Msg Type = g)	Sent by the client to request the session status
Trading Session Status (Msg Type = h)	Sent by the server to return information on the session status or to notify that the request has been rejected

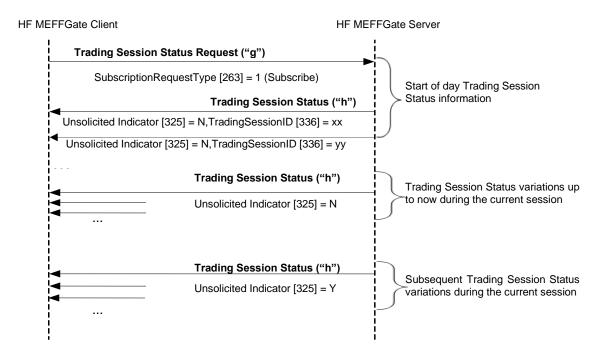


6.2.3 Message flow

Trading Session status request

This request is initially answered, for every trading mode within the corresponding contract group that meets the selection criteria, with one or more Trading Session Status messages indicating the different situations up to this moment.

From this point on, a new Trading Session Status message is received, when there is a change in status, with the corresponding information. These later messages will have "Y" in the UnsolicitedIndicator field.



Failed Trading Session status request

A failed Trading Session Status request is answered by a Trading Session Status message with the field TradeSesStatus = 6.





6.2.4 Annotations and adaptations of FIX 5.0

The tag TransactTime [60] has been added to message Trading Session Status

The optional field MoreSubscriptionsFollowing [21500] has been added to the Trading Session Status Request message to group market information subscription requests



6.3 Market information: Securities

6.3.1 Description

This functionality allows security information to be obtained. The information is organised in two groups:

- Security definitions. Static information of the definition of the securities as a snapshot (Security List) and the updates during the session (Security List Update Report).
- Security status. Dynamic information that shows the status of the securities (Security Status)

6.3.2 Request security information

The request for the definition of securities follows the criteria specified in the section Instrument block on this document.

6.3.3 Reception of security definitions

The information on the security definitions is received in the Security List and Security List Update Report messages. Keep in mind that, according to the FIX standard, the Security List Update Report message is automatically sent (as a result of the subscription via Security List Request or Security Status Request) each time there is an update, during the session, to the security definition. As a result, the client application should be ready to receive this kind of message.

For instance, it's possible to receive a Security List Update Report message saying there are new strikes in options.

These messages gives one security at a time. The TotNoRelatedSym field gives the total number of securities that meet the selection criteria and the NoRelatedSym field (always 1) gives the number of securities contained in that particular message.

6.3.4 Reception of security status

The information of the security status is received in the Security Status message. Each Security Status message contains information for one security. The reply to a Security Status Request message may consist of several Security Status messages. In this case, there is no mechanism to know when all the information has been received. If necessary, the FIX client will have to first request the list of securities using the Security List Request message to work out how many securities meet certain criteria.

If no information is received for a specific field then it should be considered that this has not changed since the last update (see chapter 4.4 for more detail).

A new Security Status message is received when there is a change in the security status with the new information.

A new Security List Update Report message is received when there is a change in the security definition with the new information.



6.3.5 List of messages

Message	Description
Security List Request (Msg Type = x)	Sent by the client to request the definition of securities. It also allows information on the status of the securities to be requested
Security List (Msg Type = y)	Sent by the server to provide the security definitions as a snapshot. It is also used to inform about the rejection of requests for this information
Security List Update Report (Msg Type = BK)	Sent by the server to provide the security definitions as an update during the session.
Security Status Request (MsgType = e)	Sent by the client to request the status of securities
Security Status (MsgType = f)	Sent by the server to inform about the status of securities. It is also used to inform about the rejection of requests for this information, or to inform that there is no security meeting the selection criteria

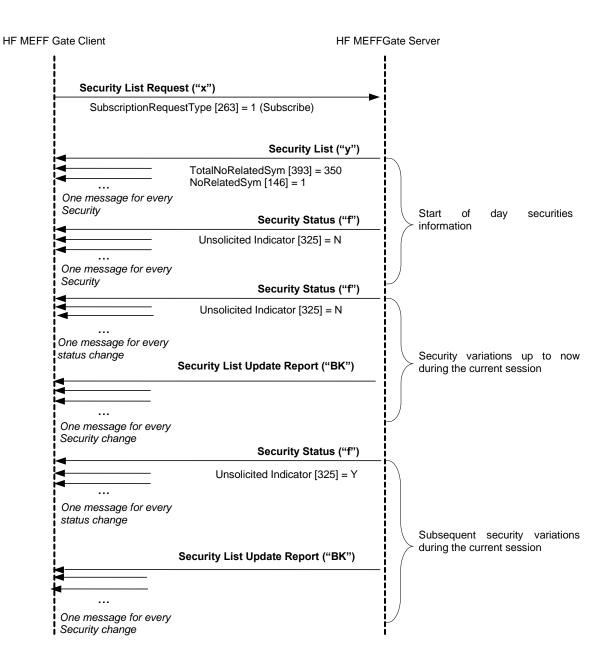


6.3.6 Message flow

Request security definitions and security status

This request is initially answered, for each security that meets the selection criteria, with one or more Security List + Security Status messages indicating the different situations of the security up to this moment.

From this point on, a new Security List Update Report or Security Status message is received when there is a change in status for any of the set of the securities with the corresponding information. These later messages will have "Y" in the UnsolicitedIndicator field.

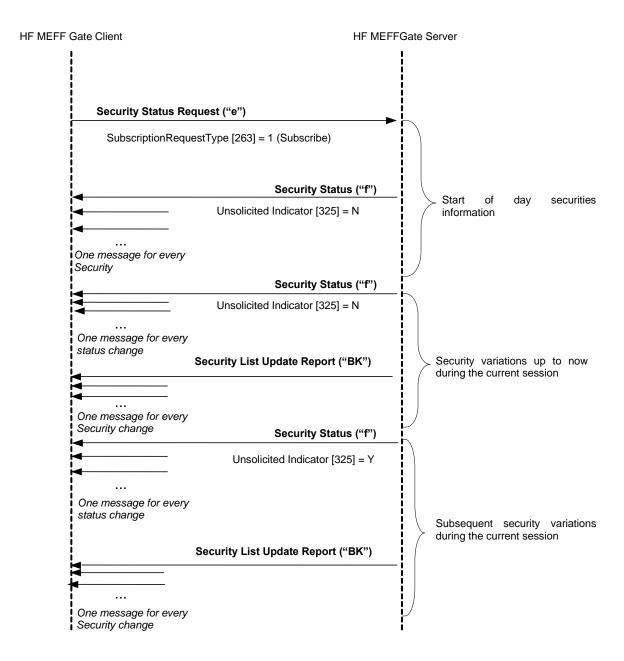




Request security status

This request is initially answered, for each security that meets the selection criteria, with one or more Security Status messages indicating the different situations of the security up to this moment.

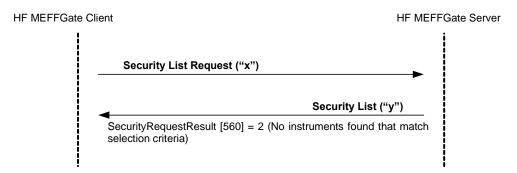
From this point on, a new Security List Update Report or Security Status message is received when there is a change in status for any of the set of the securities with the corresponding information.





Request security definitions, without securities that meet the selection criteria

When there are no securities that meet the selection criteria indicated in the security definition request, HF MEFFGate will reply with a Security List message where the field SecurityRequestResult = 2.



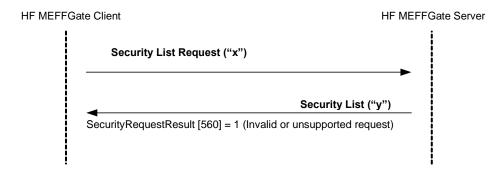
Request security status, without securities that meet the selection criteria

When there are no securities that meet the selection criteria indicated in a security status request, HF MEFFGate replies with a SecurityStatus message where the field SecurityTradingStatus = 19.



Failed security definition request

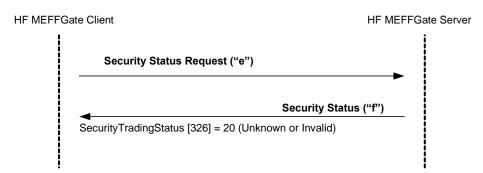
When a security definition request is erroneous, it is answered with a Security List message where the field SecurityRequestResult = 1.





Failed security status request

When a security status request is erroneous it is answered with a Security Status message where the field SecurityTradingStatus = 20.



6.3.7 Annotations and adaptations of FIX 5.0

In the Security List and Security List Update Report messages the field EventType [865] with codes greater than 100 is used. The client application should be prepared to manage this situation in a correct way

The maximum number of subscriptions is limited (see section 4.2 for details)

The optional field MoreSubscriptionsFollowing [21500] has been added to the Security List Request y Security Status Request message to group market information subscription requests



6.4 Market information: Prices

6.4.1 Description

This functionality allows to request information on the prices for a number of securities.

6.4.2 Information request

The request for information related to prices is made using the Market Data Request message.

A number of securities can be selected using a combination of fields of the Instrument block as explained in 4.1.

The types of information offered by MEFF are listed below. A client can request a combination of these types of information in the same request.

Bid

Offer

Last Price

Opening Price (includes auction prices)

Settlement Price

Session High

Session Low

Session VWAP Price

Trade Volume

Open Interest at the end of the previous session

Prior settlement price

When a request includes Bid or Offer, it is possible to specify the depth in three modes: maximum, best prices or an exact depth.

In addition to the information listed here, the Bid or Offer request implies receiving RFQ for the contracts selected (See chapter "7 - RFQ" for a detailed explanation).

6.4.3 Receipt of information

HF MEFFGate sends the information requested in Market Data Snapshot Full Refresh messages.

In accordance with the FIX standard, messages in reply to the same request will not mix the Bid and Offer information with other information.

In the event that the request combines Bid or Offer information with other information, the reply will consist of two Market Data Snapshot Full Refresh messages per security.

A new Market Data Snapshot Full Refresh message will be received every time there is a change. For all fields, including bid and offer, if no information is received for an specific field then should be considered that this has not changed since the last update (see chapter 4.4 for more detail). Anyway, the restriction of not mixing Bid or Offer information with other fields is maintained.



Keep in mind that when there are no Bid or Offer prices for a security, this is notified by the value zero in the MDEntrySize [271] field.

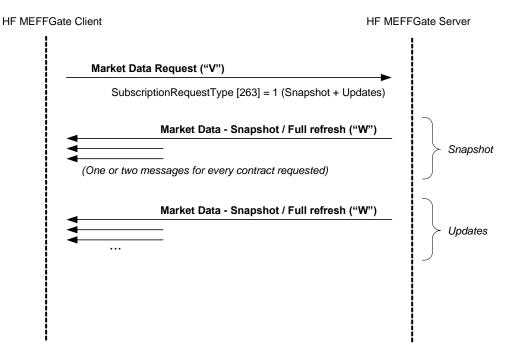
6.4.4 List of messages

Message	Description
Market Data Request (Msg Type = V)	Sent by the client to request price information
Market Data Snapshot Full Refresh (Msg Type = W)	Sent by the server to return price information
Market Data Request Reject (Msg Type = Y)	Sent by the server to notify that a Market Data Request has been rejected

6.4.5 Message flow

Request for price information

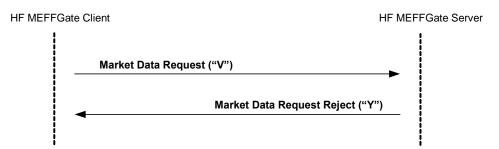
A request for price information initially receives a series of messages for the selected securities at the time of the request. From this moment on it receives messages notifying changes.





Incorrect price and orders information request

When a price and orders information request is incorrect the reply will be a Market Data Request Reject message.



6.4.6 Annotations and adaptations of FIX 5.0

The maximum number of subscriptions is limited (see section 4.2 for details)

The Volatility [1188], GrossTradeAmt [381] and TrdMatchID [880] fields have been added to the Market Data Snapshot Full Refresh message

In the Market Data Snapshot Full Refresh message the field EventType [865] with codes greater than 100 is used. The client application should be prepared to manage this situation in a correct way

The optional field MoreSubscriptionsFollowing [21500] has been added to the Market Data Request message to group market information subscription requests

Component block TrdRegTimestamps has been added to the Market Data Snapshot Full Refresh message



6.5 Definition of messages

6.5.1 Trading Session Status Request (Msg Type = g)

Used by the client to request the session status.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = g		
335	TradSesReqID	Υ		String (10)	Unique identifier for each Trading Session Status Request message
263	SubscriptionReques tType	Y	1 = Subscribe	Char	If ApplID [1180] + ApplSeqNum [1181] has been provided in the Logon message, only updates from the point indicated will be sent
2150 0*	MoreSubscriptionsF ollowing	N	Y (suggested), N (default)	Boolean	It allows to group market information subscription requests. For more information see "3.6 - Synchronisation at application level"
	Standard Trailer	Υ			



6.5.2 Trading Session Status (Msg Type = h)

 $Sent \ by \ the \ server \ to \ inform \ on \ the \ session \ status \ or \ to \ reject \ a \ Trading \ Session \ Status \ Request \ message.$

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = h		
1180	ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
335	TradSesReqID	N		String	Identifier of Trading Session Status Request message for reference. This field is always included in the message
			100 = IBEX futures hours / FX		
	TradingSessionID		102 = Cross trades (IBEX futures hours)		
			105 = Normal hours		
			106 = Delta and Basis Trade	String	Trading mode
		dingSessionID Y	107 = Bono hours		
336			108 = Cross trades (normal hours)		
			109 = Cross trades (Bono hours)		
			115 = RFQ (IBEX futures hours)		
			116 = RFQ (normal hours)		
			117 = RFQ (Bono hours)		



Tag	Name	Req	Valid values	Format	Description
			118 = xRolling		
			on Stocks		
			1 = Pre-Trading		
			(Not Started)		
			2 = Scheduled		Market assigned sub identifier for
			opening		a trading phase within a trading
			auction		session.
			3 =		Valid values within each Trading
			(Continuous)		Mode are:
			Trading		
					TradingSessionID [336] = 100
			4 = Scheduled		(IBEX futures hours / FX), 105
			closing auction		(Normal hours) and 107 (Bono
					<u>hours):</u>
			5 = Post-		1 = Pre-Trading (Not Started)
			Trading		2 = Scheduled opening auction
					3 = (Continuous) Trading
625	TradingSessionSubI	N	6 = Scheduled	String	5 = Post-Trading
023	D	IN	intraday	String	9 = Unscheduled intraday auction
			auction		
					<u>TradingSessionID [336] = 102</u>
			9 =		(Cross trades – IBEX futures
			Unscheduled		<u>hours), 106 (Delta and Basis</u>
			intraday		<u>Trade), 108 (Cross trades -</u>
			auction		normal hours) and 109 (Cross
					<u>trades – Bono hours), 115 (RFQ -</u>
			10 = Out of		IBEX futures hours), 116 (RFQ -
			Main Session		normal hours), 117 (RFQ - Bono
			Trading		hours) and 118 (xRolling on
					Stocks):
			202 = Not		202 = Not Started
			Started		203 = Open
			202 2		204 = Closed
			203 = Open		
			204 - Cl		
			204 = Closed N = The		
			_		
			message is part of a snapshot		
325	UnsolicitedIndicator	N	or a snapshot Y = The	Boolean	Contains "Y" when the message is
323	onsonciteumuitator	IN	_	DOOLEGII	sent as the result of a subscription
			message is sent due to an		
			update		
			1 = Halted		Status.
					Status.
			2 = Open 3 = Closed		Contains the value 6 (Peguest
340	TradSesStatus	Υ	4 = Pre-Open	Int	Contains the value 6 (Request Rejected) when the message is
			(Not started)		used to reject a request
			5 = Pre-Close		used to reject a request
			5 - Fre-Close		



Tag	Name	Req	Valid values	Format	Description
			6 = Request Rejected		The value 4 (Pre-Open) indicates that the Trading Mode is not open yet for trading.
					The value 3 (Closed) indicates the end of a Trading Mode and this is always a final state.
58	Text	N		String	Explanation of error. Provided if TradSesStatus = 6
60*	TransactTime	N		UTCTimeSta mp	Event time
	Standard Trailer	Υ			



6.5.3 Security List Request (Msg Type = x)

Used by the client to request the security definitions and the security status

SecurityListRequest Y 1 Int Selection criteria used	Tag	Name	Req	Valid values	Format	Description
SecurityListRequest Y 1 Int Selection criteria used		Standard Header	Υ	MsgType = x		
Type Start <instrument> See table 7 in document "Codification Tables" for a list of possible values See table 6 in document "Codification Tables" See table 6 in document "Codification Tables" Symbol See table 6 in document "Codification Tables" Symbol See table 6 in document "Codification Tables" Symbol See table 6 in document "Codification Tables" String Product type Contract expiration Contract expiration Todate to the point indicated to sent Todate to the point indicated to sent It allows to group market information subscription seed. String Product type Contract expiration Indicates the type of secustatus request. If AppliD [1180] + ApplSee [1181] has been provided Logon message, only upofrom the point indicated to sent It allows to group market information subscription seed.</instrument>	320	SecurityReqID	Υ		String (10)	Unique identifier for each Security List Request message
See table 7 in document See table 7 in document "Codification Tables" for a list of possible values See table 6 in document "Codification Tables" for a list of possible values See table 6 in document "Codification Tables" See table 6 in document "Codification Tables" YYYYMM or YYYYMM or YYYYMMOD or YYYYMMWW End <instrument> SubscriptionReques tType Y 1 = Subscribe tType Indicates the type of secustatus request. If ApplID [1180] + ApplSee [1181] has been provided Logon message, only upofrom the point indicated information subscription for more information subscription for more information subscription for more information see</instrument>	559	•	Υ	1	Int	Selection criteria used
See table 7 in document "Codification Tables" for a list of possible values 22 SecurityIDSource N 8 = Exchange Symbol See table 6 in document "Codification Tables" String See table 6 in document "Codification Tables" Product type 200 MaturityMonthYear N YYYYMM or YYYYMMOD or YYYYMMWW End <instrument> 263 SubscriptionReques tType 264 SubscriptionReques tType 275 MoreSubscriptions N Y (suggested), old wind a collowing of the point indicated to sent 286 Subscription Reques to the point indicated to sent 297 MoreSubscriptions N Y (suggested), old wind a collowing of the point indicated to sent 298 MoreSubscriptions N N (default) Boolean 298 Boolean String Product type Contract expiration Contract expiration Contract expiration Contract expiration Contract expiration String Product type Contract expiration Contract expiration Contract expiration String Product type Contract expiration Contract expiration String Product type Contract expiration Contract expiration String Product type Contract expiration Indicates the type of secustatus request. If ApplID [1180] + ApplSecustatus request. If ApplID [1180] + ApplSecustatus request. It allows to group market information subscription For more information subscription For more information secusion.</instrument>		Start <instrument></instrument>				
document "Codification Tables" for a list of possible values 22 SecurityIDSource N SecurityType N SubscriptionReques tType 200 MaturityMonthYear N SubscriptionReques tType 263 SubscriptionReques tType 264 SubscriptionReques tType 265 N SubscriptionReques tType 266 N SubscriptionReques tType 275 MoreSubscriptions N Subscription S Subscription	55	Symbol	Υ	[N/A]		Always [N/A]
SecurityIDsource N Symbol String See table 6 in document "Codification Tables" YYYYMM or YYYYMMDD or YYYYMMwW End <instrument> SubscriptionReques tType Y SubscriptionReques tType The subscribe to make the speed of the security of th</instrument>	48	SecurityID	N	document "Codification Tables" for a list of possible	String	Underlying asset
167 SecurityType N "Codification Tables" 200 MaturityMonthYear N YYYYMMDD or YYYYMMwW End <instrument> SubscriptionReques tType 1 = Subscribe tType 1 = Subscribe Char Indicates the type of secustatus request. If ApplID [1180] + ApplSecustatus request. If ApplID [1180] + ApplSecustatus request. If ApplID [1181] has been provided Logon message, only upon from the point indicated was sent It allows to group market information subscription A pollowing of the point information subscription for more information sees</instrument>	22	SecurityIDSource	N	•	String	Required if SecurityID is present.
200 MaturityMonthYear N YYYYMMDD or YYYYMMwW End <instrument> SubscriptionReques tType 1 = Subscribe tType Char Contract expiration Indicates the type of secus status request. If ApplID [1180] + ApplSecus [1181] has been provided Logon message, only upon from the point indicated with sent It allows to group market information subscription N Y (suggested), N (default) N (default) Boolean Contract expiration Contract expiration</instrument>	167	SecurityType	N	document "Codification	String	Product type
Indicates the type of secus status request. If ApplID [1180] + ApplSecus [1181] has been provided Logon message, only upon from the point indicated sent It allows to group market information subscription Note the point indicated information subscription Note the type of secus status request. If ApplID [1180] + ApplSecus [1181] has been provided Logon message, only upon from the point indicated information subscription Note the type of secus status request. If ApplID [1180] + ApplSecus [1181] has been provided Logon message, only upon from the point indicated information subscription Note the point indicated information subscription	200	MaturityMonthYear	N	YYYYMMDD or	Month-Year	Contract expiration
SubscriptionReques Y 1 = Subscribe Char If ApplID [1180] + ApplSec [1181] has been provided Logon message, only upon from the point indicated visent It allows to group market information subscription N N (default) Status request. If ApplID [1180] + ApplSec [1181] has been provided Logon message, only upon from the point indicated visent It allows to group market information subscription For more information see		End <instrument></instrument>				
2150 MoreSubscriptionsF Y (suggested), Boolean For more information see	263	·	Y	1 = Subscribe	Char	If ApplID [1180] + ApplSeqNum [1181] has been provided in the Logon message, only updates from the point indicated will be
level" Standard Trailer Y		ollowing			Boolean	It allows to group market information subscription requests. For more information see "3.6 - Synchronisation at application level"



6.5.4 Security List (Msg Type = y)

Message sent by the server to provide the definition of one or more securities.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = y		
1180	ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
320	SecurityReqID	N		String	Identifier of Security List Request message that it is replying to
322	SecurityResponseID	N		String	Unique identifier for each Security List message
560	SecurityRequestRes ult	N	0=Valid request 1=Invalid or unsupported request 2=No instruments found that match selection criteria 4=Instrument data temporarily unavailable 5=Request was rejected because the SecurityType specified is not supported	Int	Result of request identified by SecurityReqID
393		N	заррогии	Int	Total number of securities that meet the selection criteria in the request. The number of securities that the message contains is
	TotNoRelatedSym	14			indicated in the NoRelatedSym field. This field can be present when SecurityRequestResult = 0
1301	TotNoRelatedSym MarketID	N		Exchange	•



Tag	Name	Req	Valid values	Format	Description
893	LastFragment	N		Boolean	Indicates when the message is the last in a sequence in response to a single request. This field can be present when SecurityRequest-Result = 0
146	NoRelatedSym	N	1	NumInGrou p	Indicates the number of securities contained in this message
	Start <instrument></instrument>				
→ 55	Symbol	N	[N/A] or security code	String(22)	
→48	SecurityID	N	See table 7 in document "Codification Tables" for a list of possible values	String	Underlying asset
→ 22	SecurityIDSource	N	8 = Exchange Symbol	String	
	Start <secaltidgrp></secaltidgrp>				
→ 454	NoSecurityAltID	N		NumInGrou p	
→→ 455	SecurityAltID	N		String	 When SecurityAltIDSource [456] = 4, it contains the ISIN code for the contract When SecurityAltIDSource [456] = J, it contains the FISN for the contract (Finantial Instrument short name in compliance with ISO 18774) When SecurityAltIDSource [456] = T, it contains the LEI of the issuer
→→ 456	SecurityAltIDSource End <secaltidgrp></secaltidgrp>	N	4 = ISIN number J = FISN T = LEI of the issuer	String	
	Life (Secritive)		See table 8 in		
→ 1151	SecurityGroup	N	document "Codification Tables" for a	String	Product family
			list of values		



Tag	Name	Req	Valid values	Format	Description
-rug	Hame	wed	See table 6 in	Torritat	Description
→ 167	SecurityType	N	document "Codification Tables"	String	Product type
→ 762	SecuritySubType	N	See table 9 in document "Codification Tables" for a list of possible values	String	Strategy type
→ 200	MaturityMonthYear	N	YYYYMM or YYYYMMDD or YYYYMMwW	Month-Year	Security expiration
→ 541	MaturityDate	N		LocalMktDat e	Expiration date
→ 225	IssueDate	N		LocalMktDat e	Date security issued
→ 202	StrikePrice	N		Price	Exercise price. Only present for options
→ 968	StrikeValue	N		Float	For stocks derivatives, number of shares for each security
→ 206	OptAttribute	N		Char	Security version number, provided to support versioning of securities as a result of corporate actionns or events
→ 231	ContractMultiplier	N		Float	Conversion factor between price units and monetary units
→ 969	MinPriceIncrement	N		Float	Minimum amount allowed for price change when sending an order request
→ 996	UnitOfMeasure	N	Mwh = Megawatt hours	String	The unit of measure of the underlying commodity upon which the contract is based
→ 1193	SettlMethod	N	C = Cash settlement required P = Physical settlement required	Char	Settlement method for this security
→ 1194	ExerciseStyle	N	0 = European 1 = American	Int	Type of exercise of this security
→ 201	PutOrCall	N	0 = Put 1 = Call	Int	Indicates whether an option contract is a put or call
→ 1244	FlexibleIndicator	N	Y = Flexible N = Standard (default)	Boolean	Used to indicate if this security has been defined as flexible according to "non-standard" means.



Tag	Name	Req	Valid values	Format	Description
					When not informed, means "N = Standard "
→ 107	SecurityDesc	N	See table 5 in document "Codification Tables"	String	Description of the contract subgroup
	Start <evntgrp></evntgrp>				
→ 864	NoEvents	N		NumInGrou p	
			101 = Last trading day	•	
			114 = Number of decimals in the price for this security		
			132 = Maximum number of decimals allowed in orders		
			146 = LIS-pre limit (Large in Scale)		
→→ 865	EventType	N	147 = SSTI-pre limit (Size Specific to Instrument)	Int	
			148 = LIS-post limit (Large in Scale)		
			149 = SSTI-post limit (Size Specific to Instrument)		
			150 = Liquid instrument		
			151 = Adjustments rule		
			152 = Limit cap above which orders are not permitted		



Tag	Name	Req	Valid values	Format	Description
			153 = Security admits self- match prevention		
			154 = Security request for admission to trading by issuer		
			155 = Commodity derivative Indicator to indicate whether the security falls within the definition of commodities derivative under Article 2(1)(30) of Regulation (EU) No 600/2014		
			156 = Trading obligation. Indicates whether the security has to be traded in a regulated exchange		
			159 = Contains the stock in case the underlying is the dividend of the stock		
			160 = Base product 161 = Sub		
			product 162 = Further		
			sub product		



Tag	Name	Req	Valid values	Format	Description
			167 = xRolling closing type		
			168 = xRolling Buyer financing rate		
			169 = xRolling buyer rate markup		
			170 = xRolling seller financing rate		
			171 = xRolling seller rate markup		
			172 = xRolling Dividend settlement percentage		
			173 = xRolling differential between payment date and receipt of ordinary dividend flow		
→→ 866	EventDate	N	dividend now	LocalMktDat e	Last trading day, when EventType = 101
					If EventType = 114, it contains the number of decimals in the price for this security
					If EventType = 132, it contains the maximum number of decimals allowed in orders
→→ 868	EventText	N		String	If EventType = 146, it contains the LIS-pre limit (Large in Scale)
					If EventType = 147, it contains the SSTI-pre limit (Size Specific to Instrument)
					If EventType = 148, it contains the LIS-post limit (Large in Scale)



Tag Name	Req Valid values	Format	Description
			If EventType = 149, it contains the SSTI-post limit (Size Specific to Instrument)
			If EventType = 150, indicates whether the security is Liquid or Illiquid: Y – Liquid N – Illiquid
			If EventType = 151, it contains the adjustments rule: E – Extraordinary dividend adjustments only T - Total
			If EventType = 152, it contains the Nominal limit cap above which orders are not permitted
			If EventType = 153, it indicates whether the Security admits self- match prevention or not: Y - It admits self-match prevention N - It doesn't admit self-match prevention
			If EventType = 154, indicates whether the security is request for admission to trading by issuer or by Exchange own initiative: Y - Request for admission to trading by issuer N - Request for admission to trading by Exchange own initiative
			If EventType = 155, indicates whether the security falls within the definition of commodities derivative under Article 2(1)(30) of Regulation (EU) No 600/2014: Y – It is a Commodity derivative N – It is NOT a Commodity derivative
			If EventType = 156, indicates whether the security has to be traded in a regulated exchange (Trading Obligation): Y – Yes



_					
Tag	Name	Req	Valid values	Format	Description
					N – No
					If EventType = 159, it contains If EventType = 159, it contains the stock in case the underlying is the dividend of the stock
					If EventType = 160, 161 or 162, it contains the classification of commodity derivatives (see table 11 in document "Codification Tables")
					If EventType = 167, it indicates if the xRolling can be closed by any of the counterparties before the expiry date. M: Market (Default value). Value to be used in FLEX xRolling with a closed expiry date and no possibility to modify it. 1: By buyer 2: By seller A: By both
					If EventType = 168, it contains the Buyer Financing Rate S: €STR (Default value for non-FLEX xRolling) F: FISAnalitics M: MEFF rate 0: Zero ' ': N/A (used in FLEX, in the financing leg)
					If EventType = 169, it contains the buyer rate markup From -100.0000 to 100.0000
					If EventType = 170, it contains the Seller Financing Rate S: €STR (Default value for non- FLEX xRolling) F: FISAnalitics M: MEFF rate 0: Zero ' ': N/A (used in FLEX, in the
					financing leg) If EventType = 171, , it contains the seller rate markup
					From -100.0000 to 100.0000



Tag	Name	Req	Valid values	Format	Description
					If EventType = 172, it contains the Dividend settlement percentage From 0.00 to 100.00
					If EventType = 173, it contains the differential between payment date and receipt of ordinary dividend flow 0-999
	End <evntgrp></evntgrp>				
	Start <				
→	ComplexEvents >			NumInGrou	
1483	NoComplexEvents	N	1	р	
→→ 1484	ComplexEventType	N	16 = Foreign exchange cross currency	Int	
→→ 2124	ComplexEventCurre ncyOne	N		Currency	Base currency code. Follows ISO 4217 standard
→→ 2125	ComplexEventCurre ncyTwo	N		Currency	Quoted currency code. Follows ISO 4217 standard
	End <				
	ComplexEvents > End <instrument></instrument>				
	Start <securitytradingrul es></securitytradingrul 				
	Start <basetradingrules ></basetradingrules 				
→ 562	MinTradeVol	N		Qty	The minimum trading volume for an order of this security
→ 561	RoundLot	N		Qty	The trading lot size. The order volumes of this security must be a multiple of this quantity.
	End <basetradingrules ></basetradingrules 				
	End <securitytradingrul es></securitytradingrul 				
	Start <strikerules></strikerules>				
→ 1201	NoStrikeRules	N	1	NumInGrou p	
→→ 1223	StrikeRuleID	N	[N/A]	String	
	Start <maturityrules></maturityrules>				
>> 1236	NoMaturityRules	N	1	NumInGrou p	



Tag	Name	Req	Valid values	Format	Description
→→ → 1222	MaturityRuleID	N	[N/A]	String	
→→ → 1302	MaturityMonthYear IncrementUnits	N	0 = Months 1	Int	Periodicity
→→ → 1241	StartMaturityMonth Year	N	YYYYMMDD	Month-Year	Start delivery date for Energy segment contracts
→→ → 1226	EndMaturityMonthY ear	N	YYYYMMDD	Month-Year	End delivery date for Energy segment contracts
→→ → 1229	MaturityMonthYear Increment	N		Int	
	End < MaturityRules > End <strikerules></strikerules>				
→ 711	NoUnderlyings	N	1	NumInGrou p	Present if the security has another security as its underlying
	Start <underlyinginstrum ent></underlyinginstrum 				
>> 311	UnderlyingSymbol	N		String(22)	Symbol for underlying security
→→ 457	NoUnderlyingSecuri tyAltID	N		NumInGrou p	
→→ → 458	UnderlyingSecurity AltID	N		String	When UnderlyingSecurityAltIDSource [459] = T, it contains the LEI of the underlying issuer
→→ → 459	UnderlyingSecurity AltIDSource	N	T = LEI of the underlying issuer	String	, ,
→→ 318	UnderlyingCurrency	N		Currency	Currency code of the underlying security. Follows ISO 4217 standard
	End <underlyinginstrum ent></underlyinginstrum 				
→ 15	Currency	N		Currency	Currency code. Follows ISO 4217 standard
	Start <stipulations></stipulations>				
→ 232	NoStipulations	N		NumInGrou p	
→→ 233	StipulationType	N	100 = IBEX futures hours / FX	String	Trading Mode



Tag	Name	Req	Valid values	Format	Description
			102 = Cross trades (IBEX futures hours)		
			105 = Normal hours		
			106 = Delta and Basis Trade		
			107 = Bono hours		
			108 = Cross trades (normal hours)		
			109 = Cross trades (Bono hours)		
			115 = RFQ (IBEX futures hours)		
			116 = RFQ (normal hours)		
			117 = RFQ (Bono hours)		
			118= xRolling on Stocks		
→→ 234	StipulationValue	N		String	Indicates the valid Trading Modes for this security. The possible values are Y/N. If it's not sent, means 'N'
	End <stipulations></stipulations>				
→ 555	NoLegs	N		NumInGrou p	Only present in time-spread or strategies contracts
$\rightarrow \rightarrow$	Start <instrumentleg></instrumentleg>				
→→ 600	LegSymbol	N		String(22)	Contract code. Present if NoLegs has been specified
→→ 623	LegRatioQty	N		Float	The ratio of quantity for this individual leg relative to the entire multileg security
→→ 624	LegSide	N	1 = Buy 2 = Sell	Char	Indicates if the contract LegSymbol is to buy or sell.



Tag	Name	Req	Valid values	Format	Description
					Present if NoLegs has been specified
→→ 566	LegPrice	N		Price	Price for this leg
	End <instrumentleg></instrumentleg>				
					Security description
→ 58	Text	N		String	If SecurityRequestResult [560] > 0 contains an explanation of the error
	Standard Trailer	Υ			



6.5.5 Security List Update Report (Msg Type = BK)

Message sent by the server for reporting updates, during the session, to the security definition.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = BK		
1180	ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
964	SecurityReportID	N		String	Unique identifier for each Security List Update Report message
320	SecurityReqID	N		String	Identifier of Security List Request message that it is replying to
			A – Add		
980	SecurityUpdateActi on	N	D – Delete	Char	
			M - Modify		
1301	MarketID	N		Exchange	Operating MIC
1300	MarketSegmentID	N		String	Segment MIC
60	TransactTime	N		UTCTimeSta mp	Event time
146	NoRelatedSym	N	1	NumInGrou p	Indicates the number of securities contained in this message
	Start <instrument></instrument>				
→ 55	Symbol	N		String(22)	Security code
→ 48	SecurityID	N	See table 7 in document "Codification Tables" for a list of possible values	String	Underlying asset
→ 22	SecurityIDSource	N	8 = Exchange Symbol	String	
	Start <secaltidgrp></secaltidgrp>				
→ 454	NoSecurityAltID	N		NumInGrou p	
→→ 455	SecurityAltID	N		String	 When SecurityAltIDSource [456] = 4, it contains the ISIN code for the contract When SecurityAltIDSource [456] = J, it contains the FISN for the contract (Finantial Instrument short name in compliance with ISO 18774)



Tag	Name	Req	Valid values	Format	Description
· J					 When SecurityAltIDSource [456] = T, it contains the LEI of the issuer
			4 = ISIN number		
>> 456	SecurityAltIDSource	N	J = FISN	String	
			T = LEI of the issuer		
	End <secaltidgrp></secaltidgrp>				
→ 1151	SecurityGroup	N	See table 8 in document "Codification Tables" for a list of values	String	Product family
→ 461	CFICode	N		String(6)	Contract type in accordance with the ISO 10962 standard
→ 167	SecurityType	N	See table 6 in document "Codification Tables"	String	Product type
→ 762	SecuritySubType	N	See table 9 in document "Codification Tables" for a list of possible values	String	Strategy type
→ 200	MaturityMonthYear	N	YYYYMM or YYYYMMDD or YYYYMMwW	Month-Year	Security expiration
→ 541	MaturityDate	N		LocalMktDat e	Expiration date
→ 225	IssueDate	N		LocalMktDat e	Date security issued
→ 202	StrikePrice	N		Price	Exercise price. Only present for options
→ 968	StrikeValue	N		Float	For stocks derivatives, number of shares for each security
→ 206	OptAttribute	N		Char	Security version number, provided to support versioning of securities as a result of corporate actions or events
→ 231	ContractMultiplier	N		Float	Conversion factor between price units and monetary units
→ 969	MinPriceIncrement	N		Float	Minimum amount allowed for price change when sending an order request
→ 996	UnitOfMeasure	N	Mwh = Megawatt hours	String	The unit of measure of the underlying commodity upon which the contract is based



Tag	Name	Req	Valid values	Format	Description
→ 1193	SettlMethod	N	C = Cash settlement required P = Physical settlement required	Char	Settlement method for this security
→ 1194	ExerciseStyle	N	0 = European 1 = American	Int	Type of exercise of this security
→ 201	PutOrCall	N	0 = Put 1 = Call	Int	Indicates whether an option contract is a put or call
→ 1244	FlexibleIndicator	N	Y = Flexible N = Standard (default)	Boolean	Used to indicate if this security has been defined as flexible according to "non-standard" means. When not informed, means "N = Standard"
→ 107	SecurityDesc	N	See table 5 in document "Codification Tables"	String	Description of the contract subgroup
	Start < EvntGrp >				
→ 864	NoEvents	N		NumInGrou p	
→→ 865	EventType	N	101 = Last trading day 114 = Number of decimals in the price for this security 132 = Maximum number of decimals allowed in orders 146 = LIS-pre limit (Large in Scale) 147 = SSTI-pre limit (Size Specific to Instrument) 148 = LIS-post limit (Large in Scale)	Int	



Tag	Name	Rea	Valid values	Format	Description
Tag	Name	Req	Valid values 149 = SSTI-post limit (Size Specific to Instrument) 150 = Liquid instrument 151 = Adjustments rule 152 = Nominal limit cap above which orders are not permitted 153 = Security admits selfmatch prevention 154 = Security	Format	Description
			request for admission to trading by issuer		
			155 = Commodity derivative Indicator to indicate whether the security falls within the definition of commodities derivative under Article 2(1)(30) of Regulation (EU) No 600/2014		



Tag	Name	Req	Valid values 156 = Trading obligation. Indicates whether the security has to be traded in a regulated exchange	Format	Description	
			the stock in case the underlying is the dividend of the stock			
			160 = Base product			
			161 = Sub product			
			162 = Further sub product			
			167 = xRolling closing type 168 = xRolling			
			Buyer financing rate			
			169 = xRolling buyer rate markup			
			170 = xRolling seller financing rate			
			171 = xRolling seller rate markup			
			172 = xRolling Dividend settlement percentage			



Tag	Name	Req	Valid values	Format	Description
9			173 = xRolling differential between payment date and receipt of ordinary dividend flow		
→→ 866	EventDate	N		LocalMktDat e	Last trading day, when EventType = 101
					If EventType = 114, it contains the number of decimals in the price for this security If EventType = 132, it contains the maximum number of decimals
					allowed in orders If EventType = 146, it contains the
					LIS-pre limit (Large in Scale)
					If EventType = 147, it contains the SSTI-pre limit (Size Specific to Instrument)
					If EventType = 148, it contains the LIS-post limit (Large in Scale)
$\rightarrow \rightarrow$	EventText	N		String	If EventType = 149, it contains the SSTI-post limit (Size Specific to Instrument)
868	Eventiexe	.,		Stillig	If EventType = 150, indicates whether the security is Liquid or Illiquid: Y – Liquid N – Illiquid
					If EventType = 151, it contains the adjustments rule: E – Extraordinary dividend adjustments only T - Total
					If EventType = 152, it contains the Nominal limit cap above which orders are not permitted
					If EventType = 153, it indicates whether the Security admits self- match prevention or not: Y – It admits self-match prevention



Tag Name	Req Valid values	Format	Description
rag Name	Req Valia Values	Tormat	N – It doesn't admit self-match
			prevention
			If EventType = 154, indicates
			whether the security is request for
			admission to trading by issuer or
			by Exchange own initiative:
			Y – Request for admission to
			trading by issuer
			N – Request for admission to
			trading by Exchange own
			initiative
			If EventType = 155, indicates
			whether the security falls within
			the definition of commodities
			derivative under Article 2(1)(30) of
			Regulation (EU) No 600/2014:
			Y – It is a Commodity derivative
			N – It is NOT a Commodity derivative
			derivative
			If EventType = 156, indicates
			whether the security has to be
			traded in a regulated exchange
			(Trading Obligation):
			Y – Yes N – No
			IN - INO
			If EventType = 159, it contains the
			stock in case the underlying is the
			dividend of the stock
			If EventType = 160, 161 or 162, it
			contains the classification of
			commodity derivatives (see table
			11 in document "Codification
			Tables")
			If EventType = 167, it indicates if
			the xRolling can be closed by any
			of the counterparties before the
			expiry date.
			M: Market (Default value). Value
			to be used in FLEX xRolling with a closed expiry date and no
			possibility to modify it.
			1: By buyer
			2: By seller
			A: By both



Tag	Name	Req	Valid values	Format	Description
ray	Wallie	Keq	valiu values	rormat	If EventType = 168, it contains the
					Buyer Financing Rate
					S: €STR (Default value for non-
					FLEX xRolling)
					F: FISAnalitics
					M: MEFF rate
					0: Zero
					' ': N/A (used in FLEX, in the
					financing leg)
					If EventType = 169, it contains the
					buyer rate markup
					From -100.0000 to 100.0000
					If EventType = 170, it contains the
					Seller Financing Rate
					S: €STR (Default value for non-
					FLEX xRolling)
					F: FISAnalitics
					M: MEFF rate
					0: Zero
					' ': N/A (used in FLEX, in the
					financing leg)
					If EventType = 171, , it contains the
					seller rate markup
					From -100.0000 to 100.0000
					If EventType = 172, it contains the
					Dividend settlement percentage
					From 0.00 to 100.00
					If EventType = 173, it contains the
					differential between payment date
					and receipt of ordinary dividend
					flow
					0-999
	End < EvntGrp >				
	Start < ComplexEvents >				
	COMPICALVEIRS				
\rightarrow				NumInGrou	
1483	NoComplexEvents	N	1	р	
$\rightarrow \rightarrow$			16 = Foreign		
77 1484	ComplexEventType	N	exchange cross	Int	
	CompleteFrance		currency		Daga summana
→→ 2124	ComplexEventCurre ncyOne	N		Currency	Base currency code. Follows ISO 4217 standard
$\rightarrow \rightarrow$	ComplexEventCurre	N		Currency	Quoted currency code. Follows ISO
2125	ncyTwo	ı N		Currency	4217 standard



End < ComplexEvents > End < Instrument > Start	Tag	Name	Req	Valid values	Format	Description
End < Instrument > Start						
Start SecurityTradingRule es> Start SaseTradingRules MinTradeVol N Qty The minimum trading volume f an order of this security The trading lot size. The order volumes of this security must b multiple of this quantity. End SaseTradingRules Start <strikerules> NoStrikeRules N 1 NumInGrou NoStrikeRules N 1 NumInGrou Start MaturityRules> MaturityRules MaturityRules N 1 NumInGrou P MaturityMonthYear IncrementUnits MaturityMonthYear Start Start delivery date for Energy segment contracts MaturityMonthYear End delivery date for Energy segment contracts N MaturityRules MaturityMonthYear End delivery date for Energy segment contracts N MaturityMonthYear End delivery date for Energy segment contracts N MaturityMonthYear End delivery date for Energy segment contracts N MaturityRules MaturityMonthYear End delivery date for Energy segment contracts N MaturityRules N MaturityRules N MaturityRules N MaturityMonthYear End delivery date for Energy segment contracts N Month-Year End delivery date for Energy segment contracts N Month-Year End delivery date for Energy segment contracts N Month-Year Present if the security has anoth NumInGrou Present if the security has anoth NumInGrou Present if the security has anoth NumInGrou Present if the security has anoth</strikerules>		ComplexEvents >				
<pre></pre>		End < Instrument >				
Start SaveTradingRules MinTradeVol N Qty The minimum trading volume f an order of this security RoundLot N Qty volumes of this security must b multiple of this quantity. End SaseTradingRules End SecurityTradingRul es> Start <strikerules> NoStrikeRules N 1 NumInGrou p StrikeRules N 1 NumInGrou p StrikeRules> AdaturityRules N 1 NumInGrou p MaturityRuleID N [N/A] String Start MaturityRuleID N [N/A] String String String String String String MaturityRuleID N [N/A] String String String D = Months 2 1 = Days MaturityMonthYear IncrementUnits N 2 = Weeks 3 = Years Start delivery date for Energy segment contracts AdaturityMonthYear ear MaturityMonthYear and Month-Year segment contracts Multiple of this security must be multiple of this security</strikerules>		Start				
Start -		<securitytradingrul< td=""><td></td><td></td><td></td><td></td></securitytradingrul<>				
→ MintradeVol N Qty The minimum trading volume fan order of this security The trading lot size. The order volumes of this security must be multiple of this quantity. End		Start				
→ 562 MinTradeVol N Qty The minimum trading volume fan order of this security → 561 RoundLot N Qty The trading lot size. The order volumes of this security must be multiple of this quantity. End		<basetradingrules< td=""><td></td><td></td><td></td><td></td></basetradingrules<>				
Amulation N		>				
## RoundLot N Qty The trading lot security ## RoundLot N Qty Volumes of this security must b multiple of this quantity. ## End	\rightarrow	MinTradeVol	N		Otv	The minimum trading volume for
RoundLot N Qty volumes of this security must b multiple of this quantity. End	562	· · · · · · · · · · · · · · · · · · ·	.,		4.9	-
Find Security must be multiple of this security must be multiple of this quantity. End SecurityTradingRules SecurityTradingRules Start StrikeRules N 1 NumInGrou Persent if the securityRules N 1 NumInGrou Persent if the securityRules N 1 NumInGrou Persent if the security has anotic Persent if t	\rightarrow					
End		RoundLot	N		Qty	
SaseTradingRules End SecurityTradingRul es> Start <strikerules> NoStrikeRules NoStrikeRules NoMaturityRules Start Start MaturityRules NoMaturityRules NomaturityRul</strikerules>						multiple of this quantity.
End SecurityTradingRul es> Start <strikerules> </strikerules>						
End		_				
ScarrityTradingRul es> Start <strikerules> → NoStrikeRules N 1 NumInGrou p → 1223 StrikeRuleID N [N/A] String Start Start AdaturityRules> → NoMaturityRules N 1 NumInGrou p NoMaturityRules N 1 NumInGrou p MaturityRuleID N [N/A] String String O = Months → HaturityMonthYear IncrementUnits N 2 = Weeks 3 = Years → StartMaturityMonth Year → EndMaturityMonthYear Increment Incre</strikerules>						
es> Start <strikerules> NumInGrou p</strikerules>						
Start <strikerules> → NoStrikeRules N 1 NumInGrou p → → 1223 StrikeRuleID N [N/A] String Start</strikerules>		•				
→ 1201 NoStrikeRules N 1 NumInGrou p → → 1223 StrikeRuleID N [N/A] String Start $MaturityRules> N 1 NumInGrou p → → → 1236 NoMaturityRuleID N [N/A] String 1222 MaturityMonthYear IncrementUnits N [N/A] String → → → → → → → → → → → → → → → → → → →$						
1201 NoStrikeRules N 1 p → → 1223 StrikeRuleID N [N/A] String Start <maturityrules> → → NoMaturityRules N 1 p 1236 NoMaturityRules N 1 p → MaturityRuleID N [N/A] String 0 = Months → → MaturityMonthYear IncrementUnits N 2 = Weeks 3 = Years → → StartMaturityMonth Year Year → → EndMaturityMonthY ear Increment → → MaturityMonthYear Increment → → MaturityMonthY ear Increment → → HollartyMonthYear Increment N N YYYYMMDD Month-Year Start delivery date for Energy segment contracts → → MaturityMonthY ear Increment End < MaturityMonthYear Increment End < MaturityMonthYear Increment End < MaturityRules > End < StrikeRules> End < StrikeRules> N NumInGrou Present if the security has anotice in the security has ano</maturityrules>		Start <strikerules></strikerules>				
StrikeRuleID N [N/A] String		NoStrikeRules	N	1	NumInGrou	
StrikeRuleID N [N/A] String Start String NoMaturityRules N 1 NumInGrou P String O = Months O = Months O = Months IncrementUnits N 2 = Weeks O = Weeks O = Months StartMaturityMonthYear IncrementUnits N YYYYMMDD Month-Year EndMaturityMonthYear Start delivery date for Energy segment contracts N YYYYMMDD Month-Year End delivery date for Energy segment contracts N YYYYMMDD Month-Year Int End delivery date for Energy segment contracts N Int End delivery date for Energy segment contracts N Int End delivery date for Energy segment contracts N Int N NumInGrou Present if the security has anotic present if the security h					р	
Start <maturityrules> >> NoMaturityRules N 1 NumInGrou p >> MaturityRuleID N [N/A] String 0 = Months 2 1 = Days N 2 = Weeks 3 = Years >> StartMaturityMonth Year >> EndMaturityMonthYear Increment N YYYYMMDD Month-Year Start delivery date for Energy segment contracts >> EndMaturityMonthYear Increment N YYYYMMDD Month-Year Start delivery date for Energy segment contracts >> End delivery date for Energy segment contracts >> MaturityMonthYear Increment End < MaturityMonthYear Increment End < MaturityRules >> End < StrikeRules> >> Nol Inderlyings N 1 NumInGrou Present if the security has anotice NumInGrou Present if the</maturityrules>		StrikeRuleID	Ν	[N/A]	String	
	1223	Ctart				
→ → 1236 NoMaturityRules N 1 NumInGrou p → → → → 1222 MaturityRuleID N [N/A] String 1222 0 = Months → → → 1302 MaturityMonthYear IncrementUnits N 2 1 = Days Int Periodicity 1302 1nt Periodicity 2 = Weeks 3 = Years → → 1241 StartMaturityMonth Year Year N YYYYMMDD Month-Year Start delivery date for Energy segment contracts → → → 1226 EndMaturityMonthYear Increment N YYYYMMDD Month-Year Start delivery date for Energy segment contracts → → → MaturityMonthYear Increment N Int End < MaturityRules > End < StrikeRules> N Int Nol Inderlyings N 1 NumInGrou Present if the security has anotic present in the security has anotic present if th						
NoMaturityRuleS N 1 → → → → MaturityRuleID N [N/A] String 0 = Months 1222 0 = Months 1302 1302 MaturityMonthYear IncrementUnits N 2 = Weeks 3 = Years → → StartMaturityMonth Year Year → → EndMaturityMonthY ear → → MaturityMonthYear Increment N YYYYMMDD Month-Year Start delivery date for Energy segment contracts End delivery date for Energy segment contracts MaturityMonthYear N YYYYMMDD Month-Year Segment contracts → → MaturityMonthYear Increment End < MaturityRules > End < StrikeRules> Null Inderlyings N 1 NumInGrou Present if the security has anotic	$\rightarrow \rightarrow$	-			NumInGrou	
→ → → MaturityRuleID N [N/A] String 1222		NoMaturityRules	N	1		
→ MaturityRuleID N [N/A] String 1222 0 = Months → MaturityMonthYear 1302 N 2 1 = Days 2					Ρ	
1222	\rightarrow	MaturityRuleID	N	[N/A]	String	
→ MaturityMonthYear 1302 Int Periodicity 2 = Weeks 3 = Years → StartMaturityMonth Year → EndMaturityMonthY ear 1226 ear MaturityMonthYear Increment N YYYYMMDD Month-Year End delivery date for Energy segment contracts End delivery date for Energy segment contracts Int Find delivery date for Energy segment contracts Int End < MaturityMonthYear Increment End < MaturityRules > End <strikerules> NumInGrou Present if the security has another segment in the security has a sequence sequence segment in the security has a sequence s</strikerules>	1222	,		- , -		
→ MaturityMonthYear 1302 IncrementUnits 2 = Weeks 3 = Years StartMaturityMonth Year → StartMaturityMonth Year EndMaturityMonthY ear N YYYYMMDD Month-Year Start delivery date for Energy segment contracts End delivery date for Energy segment contracts End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts N Int End < MaturityMonthYear Increment Int End < MaturityRules > N Int NumInGrou Present if the security has anotice segment in the security has a segment in the security				0 = Months		
→ MaturityMonthYear 1302 IncrementUnits 2 = Weeks 3 = Years StartMaturityMonth Year → StartMaturityMonth Year EndMaturityMonthY ear N YYYYMMDD Month-Year Start delivery date for Energy segment contracts End delivery date for Energy segment contracts End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts N Int End < MaturityMonthYear Increment Int End < MaturityRules > N Int NumInGrou Present if the security has anotice segment in the security has a segment in the security						
IncrementUnits 2 = Weeks 3 = Years StartMaturityMonth Year EndMaturityMonthY ear Month-Year End delivery date for Energy segment contracts How delivery date for Energy segment contracts End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Int End delivery date for Energy segment contracts Numingrou Present if the security has anoty	$\rightarrow \rightarrow$	MaturityMonthVoar		2 1 = Days		
3 = Years → StartMaturityMonth Year EndMaturityMonthY ear N YYYYMMDD Month-Year Start delivery date for Energy segment contracts EndMaturityMonthY ear MaturityMonthYear Increment End < MaturityRules End < StrikeRules> NumInGrou Present if the security has anotice.		=	N		Int	Periodicity
→ ⇒ StartMaturityMonth Year N YYYYMMDD Month-Year Start delivery date for Energy segment contracts → ⇒ EndMaturityMonthY ear N YYYYMMDD Month-Year End delivery date for Energy segment contracts → ⇒ MaturityMonthYear Increment N Int 1229 End < MaturityRules > N Int End < StrikeRules> N NumInGrou Present if the security has another p	1302	incrementonits		2 = Weeks		
→ ⇒ StartMaturityMonth Year N YYYYMMDD Month-Year Start delivery date for Energy segment contracts → ⇒ EndMaturityMonthY ear N YYYYMMDD Month-Year End delivery date for Energy segment contracts → ⇒ MaturityMonthYear Increment N Int 1229 End < MaturityRules > N Int End < StrikeRules> N NumInGrou Present if the security has another p						
→ StartMaturityMonth Year N YYYYYMMDD Month-Year Start delivery date for Energy segment contracts → ⇒ EndMaturityMonthY ear N YYYYMMDD Month-Year End delivery date for Energy segment contracts → ⇒ MaturityMonthYear Increment N Int End < MaturityRules > End <strikerules> N NumInGrou Present if the security has another present if the security has a present if the security has another present if the security has a present if the security has a present if t</strikerules>				3 = Years		
1241 Year segment contracts → EndMaturityMonthY ear N YYYYMMDD Month-Year Segment contracts → MaturityMonthYear Increment End < MaturityRules > End <strikerules> Nol Inderlyings N 1 NumInGrou Present if the security has anotice in the security has a security has a</strikerules>		StartMaturityMonth	N.I	\000/MMDD	Marath Vari	Start delivery date for Energy
→ ⇒ EndMaturityMonthY ear N YYYYMMDD Month-Year End delivery date for Energy segment contracts → ⇒ MaturityMonthYear Increment N Int End < MaturityRules > End <strikerules> Nol Inderlyings N 1 NumInGrou Present if the security has another present if the security has a present if the secu</strikerules>			IN	YYYYMMUUU	Month-Year	
→ EndiwaturityMonthY ear N YYYYMMDD Month-Year End delivery date for Energy segment contracts → MaturityMonthYear Increment End < MaturityRules > End < StrikeRules> → Nol Inderlyings N 1 End delivery date for Energy segment contracts Find delivery date for Energy segment contracts NumInGrou Present if the security has another segment contracts Find delivery date for Energy segment contracts Find delivery date for Energy segment contracts Find delivery date for Energy segment contracts NumInGrou Present if the security has another segment contracts						
1226 ear segment contracts → MaturityMonthYear N Int End < MaturityRules > End <strikerules> Nol Inderlyings N 1 NumInGrou Present if the security has anotice of the security has a security</strikerules>	→ ´		N	YYYYMMDD	Month-Year	
→ MaturityMonthYear N Int 1229 Increment N Int End < MaturityRules > End <strikerules> → NoLinderlyings N 1 NumInGrou Present if the security has anotice in the security has a security has a</strikerules>	1226	ear				segment contracts
Increment End < MaturityRules > End <strikerules> Nol Inderlyings N 1 Int Int Int Int Int Int Int Int Int In</strikerules>	$\rightarrow \rightarrow$	MaturityMonthYear				
End < MaturityRules > End <strikerules> Nol Inderlyings N 1 NumInGrou Present if the security has anotice the security has a secu</strikerules>		=	N		Int	
> End <strikerules> Nol Inderlyings N 1 NumInGrou Present if the security has anotice.</strikerules>	1229					
End <strikerules> → Nol Inderlyings N 1 NumInGrou Present if the security has another the security has a security has a</strikerules>						
→ Nol Inderlyings N 1 NumInGrou Present if the security has anot						
Notingerivings in 1	`	Ena <strikerules></strikerules>			N C	December 15th and 15th and 15th
p security as its underlying		NoUnderlyings	N	1		
	/				p	security as its underlying



Tag	Name	Req	Valid values	Format	Description
	Start <underlyinginstrum ent></underlyinginstrum 				
>> 311	UnderlyingSymbol	N		String(22)	Symbol for underlying security
→→ 457	NoUnderlyingSecuri tyAltID	N		NumInGrou p	
→→ → 458	UnderlyingSecurity AltID	N		String	When UnderlyingSecurityAltIDSource [459] = T, it contains the LEI of the underlying issuer
→→ → 459	UnderlyingSecurity AltIDSource	N	T = LEI of the underlying issuer	String	, ,
→→ 318	UnderlyingCurrency	N		Currency	Currency code of the underlying and strike. Follows ISO 4217 standard
	End <underlyinginstrum ent></underlyinginstrum 				
→ 15	Currency	N		Currency	Currency code. Follows ISO 4217 standard
	Start <stipulations></stipulations>				
→ 232	NoStipulations	N		NumInGrou p	
→ → 233	StipulationType	N	100 = IBEX futures hours / FX 102 = Cross trades (IBEX futures hours) 105 = Normal hours 106 = Delta and Basis Trade 107 = Bono hours 108 = Cross trades (normal hours) 109 = Cross trades (Bono hours) 115 = RFQ (IBEX futures hours)	String	Trading Mode



Tag	Name	Dog	Valid values	Format	Description
Tag	Name	Req	116 = RFQ (normal hours)	Format	Description
			117 = RFQ (Bono hours)		
			118 = xRolling on Stocks		
→→ 234	StipulationValue	N		String	Indicates the valid Trading Modes for this security. The possible values are Y/N. If it's not sent, means 'N'
	End <stipulations></stipulations>				
→ 555	NoLegs	N		NumInGrou p	Only present in time-spread or strategies contracts
$\rightarrow \rightarrow$	Start <instrumentleg></instrumentleg>				
→→ 600	LegSymbol	N		String(22)	Contract code. Present if NoLegs has been specified
→→ 623	LegRatioQty	N		Float	The ratio of quantity for this individual leg relative to the entire multileg security
→→ 624	LegSide	N	1 = Buy	Char	Indicates if the contract LegSymbol is to buy or sell.
024	-		2 = Sell		Present if NoLegs has been specified
→→ 566	LegPrice	N		Price	Price for this leg
	End <instrumentleg></instrumentleg>				
→58	Text	N		String	Security description
	Standard Trailer	Υ			



6.5.6 Security Status Request (MsgType = e)

Used by the client to request the status of securities.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = e		
324	SecurityStatusReqI D	Υ		String (10)	Unique identifier for each Security Status Request message
	Start <instrument></instrument>				
55	Symbol	Υ	[N/A]		Always [N/A]
48	SecurityID	N	See table 7 in document "Codification Tables" for a list of possible values	String	Underlying asset
22	SecurityIDSource	N	8 = Exchange Symbol	String	Required if SecurityID is present
167	SecurityType	N	See table 6 in document "Codification Tables"	String	Product type
200	MaturityMonthYear	N	YYYYMM or YYYYMMDD or YYYYMMwW	Month-Year	Contract expiration
	End <instrument></instrument>				
263	SubscriptionReques tType	Υ	1 = Subscribe	Char	If ApplID [1180] + ApplSeqNum [1181] has been provided in the Logon message, only updates from the point indicated will be sent
2150 0*	MoreSubscriptionsF ollowing	N	Y (suggested), N (default)	Boolean	It allows to group market information subscription requests. For more information see "3.6 - Synchronisation at application level"
	Standard Trailer	Υ			



6.5.7 Security Status (MsgType = f)

Message sent by the server to inform on the status of one security.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = f		
1180	ApplID	N	<u> </u>	String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
324	SecurityStatusReqI D	N		String	Identifier of the Security Status Request message being replied to. This field is always included in the message
	Start <instrument></instrument>				
55	Symbol	Υ	[N/A] or security code	String(22)	Security code. It contains [N/A] when the message corresponds to a set of contracts or when SecurityTradingStatus [326] = 20 (Unknown or invalid)
48	SecurityID	N	See table 7 in document "Codification Tables" for a list of possible values	String	Underlying asset. If not specified means "for all the underlying assets"
454	NoSecurityAltID	N		NumInGrou p	
→ 455	SecurityAltID	N		String	 When SecurityAltIDSource [456] = 4, it contains the ISIN security code
→ 456	SecurityAltIDSource	N	4 = ISIN number	String	
22	SecurityIDSource	N	8 = Exchange Symbol	String	Present if SecurityID has been specified
1151	SecurityGroup	N	See table 8 in document "Codification Tables" for a list of values	String	Product family. If not specified means "for all the product families"
167	SecurityType	N	See table 6 in document "Codification Tables"	String	Product type. If not specified means "for all the product types"



Tag	Name	Req	Valid values	Format	Description
9					Contract expiration.
200	MaturityMonthYear	N	YYYYMM or YYYYMMDD or YYYYMMwW	Month-Year	If not specified means "for all the contract expirations"
	End <instrument></instrument>				
325	UnsolicitedIndicator	N	N = The message is part of a snapshot Y = The	Boolean	Contains "Y" when the message is sent due to a subscription, and otherwise "N".
			message is sent as the result of an update		This field is always present in the message
			17 = Ready to trade		
			18 = Not available for trading		Informs on the security status. The value "21" indicates that the security or product family is under
	SecurityTradingStat us		19 = Not Traded on this Segment		auction. This value must not be confused with the "Pre-Open" segment status, which indicates that no security can be traded.
326		N	20 = Unknown or Invalid	Int	(See field 340, TradSesStatus, of the Trading Session Status message).
			21 = Pre-Open 23 = Fast Market		To evaluate this tag, TradSesStatus [340] in the Trading Session Status message must also be taken into account.
			100 = Extraordinary Market Conditions		
			100 = Halted by Regulator		
327	HaltReason	N	101 = Halted by Market Surveillance	Int	Halt reason
332	HighPx	N		Price	Maximum price accepted for a contract. This value may vary during a trading session
333	LowPx	N		Price	Minimum price accepted for a contract. This value may vary during a trading session
60	TransactTime	N		UTCTimeSta mp	Event time



Tag	Name	Req	Valid values	Format	Description
					Contains an explanation of the
58	Text	Ν		String	error. May be provided if
					SecurityTradingStatus = 19 or 20
	Standard Trailer	Υ			



6.5.8 Market Data Request (Msg Type = V)

Used by the client to request price information.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = V		
262	MDReqID	Υ		String (10)	Unique identifier for each Market Data Request message
263	SubscriptionReques tType	Υ	1 = Subscribe	Char	If ApplID [1180] + ApplSeqNum [1181] has been provided in the Logon message, only updates from the point indicated will be sent
264	MarketDepth	Y	0 = Full Book 1 = Top of Book n = exact depth (n>1)	Int	Prices depth Ignored if none of the MDEntryType occurrences are Bio or Offer
265	MDUpdateType	N	0 = Full refresh	Int	Required if SubscriptionRequestType = 1
267	NoMDEntryTypes	Υ		NumInGrou	Number of MDEntryType fields
207	1401VIDETILITY TYPES	'	0 = Bid	р	that contain the message
→ 26 9	MDEntryType	Y	1 = Offer 2 = Trade (last) 4 = Opening Price 6 = Settlement Price 7 = Trading Session High Price 8 = Trading Session Low Price 9 = Trading session VWAP price B = Trade Volume (total volume for security in session) C = Open Interest M = Prior Settle Price N = Session High Bid O = Session Low Offer	Char	Type of market information requested
	NoDolatodCym	Υ	1	NumInGrou	Number of selection criteria
146	NoRelatedSym		•	р	



Tag	Name	Req	Valid values	Format	Description
→ 55	Symbol	Υ	[N/A]	String	Always [N/A]
→48	SecurityID	N	See table 7 in document "Codification Tables" for a list of possible values	String	Underlying asset
→ 22	SecurityIDSource	N	8 = Exchange Symbol	String	Required if the SecurityID has been specified
→ 16 7	SecurityType	N	See table 6 in document "Codification Tables"	String	Product type
→ 20 0	MaturityMonthYear	N	YYYYMM or YYYYMMDD or YYYYMMwW	Month-Year	Contract expiration
	End <instrument></instrument>				
2150 0*	MoreSubscriptionsF ollowing	N	Y (suggested), N (default)	Boolean	It allows to group market information subscription requests. For more information see "3.6 - Synchronisation at application level"
	Standard Trailer	Υ			



6.5.9 Market Data Request Reject (Msg Type = Y)

Used by HF MEFFGate to reject a Market Data Request.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = Y		
262	MDReqID	Υ		String	Identifier of the request being rejected
281	MDReqRejReason	N	0 = Invalid selection criteria 1 = Duplicate MDReqID 4 = Unsupported SubscriptionRe questType 5 = Unsupported MarketDepth 6 = Unsupported MDUpdateType 8 = Unsupported MDEntryType	Char	Reason for rejection. This field is always present in the message
58	Text	N		String	Explanation of rejection motive
	Standard Trailer	Υ			



6.5.10 Market Data Snapshot Full Refresh (Msg Type = W)

Used by HF MEFFGate to communicate price information requested with a Market Data Request message.

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = W		
1180	ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
262	MDReqID	N		String	Identifier of the Market Data Request message that is being replied to
1500	MDStreamID	N		String	In case of information about RFQ responses, it contains the corresponding IOIID
1301	MarketID	Ν		Exchange	Operating MIC
1300	MarketSegmentID	Ν		String	Segment MIC
	Start <instrument></instrument>				
55	Symbol	Υ	Security code	String(22)	Security code
454	NoSecurityAltID	N		NumInGrou p	
→ 455	SecurityAltID	N		String	 When SecurityAltIDSource [456] = 4, it contains the ISIN security code
→ 456	SecurityAltIDSource	N	4 = ISIN number	String	
864	NoEvents	N		NumInGrou p	May be present in a trade or in settlement prices
→ 865	EventType	N	201 = Original trade type (in a countertrade or trade amendment case)	Int	



Tag	Name	Req	Valid values	Format	Description
			204 = Trade		
			registration		
			number of the		
			countertrade or		
			trade		
			amendment. In		
			a trade		
			corresponding		
			to legs of a		
			strategy it		
			contains the		
			Trade		
			registration		
			number of the		
			trade in the		
			strategy		
			205 = Price of		
			the trade in the		
			case where it		
			does not		
			change the last		
			price		
			206 = Origin of		
			the trade		
			211 =		
			Transaction		
			category MMT:		
			Package		
			Trade		
			(excluding		
			Exchange		
			for Physicals)		
			Physicals) "TPAC"		
			Exchange		
			• Exchange for		
			Physicals		
			Trade		
			"XFPH"		
			242 B		
			212 = Pre- and		
			Post-		
			transparency		
			flags		
			213 = Current		
			Forward price		



Tag	Name	Req	Valid values	Format	Description
			214 = Previous		
			Forward price		
→	EventPx	N		Price	Present when EventType = 205,
867					213 or 214
					Present when EventType [865] =
					201, 204, 206, 211, 212
					When EventType [865] = 201 the
					valid values are:
					 0 (for a Market trade type),
					TrdSubType [829] (for the
					rest of the trade types)
					When EventType [965] - 206 the
					When EventType [865] = 206 the valid values are:
					For trades originated from
					orders:
					1 (the trade comes from the
					Continuous Trading),
					2 (the trade comes from an
					Opening Auction),
					3 (the trade comes from a
					Closing Auction),
					4 (the trade comes from a
\rightarrow	F			Cr. t.	Volatility Auction),
868	EventText	N		String	5 (the trade comes from a Manual Auction)
					Manual Auction)
					When EventType [865] = 211: Level
					3.1 - Transaction category MMT
					model. Maybe informed when
					MDEntryType is 2:
					 Z = Package Trade (excluding
					Exchange for Physicals)
					"TPAC"
					 Y = Exchange for Physicals Trade "XFPH"
					When EventType [865] = 212: It
					contains the trade pre-
					transparency and post-
					transparency flags accordingly MiFID II directive. Different flags
					are enclosed by doubled quotes
					(") and separated by a comma.
					Maybe informed when
					MDEntryType is 2
	End <instrument></instrument>				
268	NoMDEntries	Υ		NumInGrou	Number of entries to follow
			0 - D:4	р	
→ 269	MDEntryType	Υ	0 = Bid	Char	Type of information that the
					present entry contains.



Tag	Name	Req	Valid values	Format	Description
			1 = Offer		If the values 0 or 1 are present, the message does not contain any of
			2 = Trade (last)		the others
			4 = Opening Price		
			6 = Settlement		
			Price		
			7 = Trading Session High Price		
			8 = Trading Session Low Price		
			9 = Trading session VWAP price		
			B = Trade Volume (total volume for security in session)		
			C = Open Interest		
			E = Estimated buy mid-price (RFQ)		
			F = Estimated sell mid-price (RFQ)		
			M = Prior Settle Price		
			N = Session High Bid		
			O = Session Low Offer		
→ 270	MDEntryPx	N		Price	Price. Present when the MDEntryType is (0,1,2,4,6,7,8,9,E,F,M,N,O).



Tag	Name	Req	Valid values	Format	Description
Tay	Name	- Key	vanu values	roimat	When it is not present and MDEntryType is 2, see EventPx [867] when EventType [865] = 205 When it is not present and
					MDEntryType is 6, it should be considered as a value 0
					When MDEntryType = 0 or 1 and there are only Market orders: MDEntryPx [270] = 0 (MDEntrySize [271] > 0)
					Volume.
→ 271	MDEntrySize	N		Qty	Present when the MDEntryType is (0,1,2,B,C,E,F)
					For value "C", it contains the open interest at the beginning of the trading session.
→	MDEntryTime	Γime N		UTCTimeOnl	Time of Market Data entry for MDEntryType [269] = 0 (Bid), 1 (Offer), E (Estimated buy mid-price - RFQ), F (Estimated sell mid-price - RFQ) or 6 (Settlement Price)
273				у	When MDEntryType [269] = 0 (Bid) or 1 (Offer), It is only present for one of the values (MDPriceLevel = 1) and it refers to the update of Bid and Offer in general.
			100 = IBEX futures hours / FX		
			102 = Cross trades (IBEX futures hours)		Trading mode
→ 336	TradingSessionID	N	105 = Normal hours	String	Present when MDEntryType = 0,1,E,F and also when
330	3		106 = Delta and Basis Trade		MDEntryType =2 (Trade) with TrdMatchID [880] informed
			107 = Bono hours		
			108 = Cross trades (normal hours)		



Tag	Name	Req	Valid values	Format	Description
Tag	Name	Keq	109 = Cross trades (Bono hours)	Format	Description
			115 = RFQ (IBEX futures hours)		
			116 = RFQ (normal hours)		
			117 = RFQ (Bono hours)		
			118 = xRolling on Stocks		
→ 277	TradeCondition	N	6 = Benchmark Trade "BENC"	MultipleStrin gValue	Level 3.5 - Benchmark or Reference Price Indicator indicator MMT model
					Maybe present if MDEntryType is 2
	Start <tradepriceconditi onGrp></tradepriceconditi 				
→ 1838	NoTradePriceCondit ions	N		NumInGrou p	
→→ 1839	TradePriceConditio n	N	15 = Non-Price Forming Trade (formerly defined as a Technical	Int	Level 3.8 - Ordinary/Standard Trades or Trades Outside Price Formation / Discovery Process MMT model
	End <tradepriceconditi< td=""><td></td><td>Trade) "NPFT"</td><td></td><td>Maybe present if MDEntryType is 2</td></tradepriceconditi<>		Trade) "NPFT"		Maybe present if MDEntryType is 2
→	onGrp> AlgorithmicTradeIn	N	0 = No Algorithmic trade	MultipleStrin	Level 3.9 - Algorithmic Indicator MMT model
2667	dicator	14	1 = Algorithmic trade "ALGO"	gValue	Maybe present if MDEntryType is 2
→ 346	NumberOfOrders	N		Int	When MDEntryType = 0 or 1 indicates the number of orders at this price
→ 1023	MDPriceLevel	N		Int	Level of a bid or offer at a given price level. Numbered from the most to the least competitive per market side, starting with 1. Present if MDEntryType is 0 or 1
→ 1024	MDOriginType	N	0 = Central Limit Order Book	Int	Level 1 - Market Mechanism MMT model



Tag	Name	Req	Valid values	Format	Description
			1 = Off Book (including Voice or Messaging Trading)		Maybe present if MDEntryType is 2
			3 = Quote Driven Market		
			4 = Dark Order Book		
			5 = Periodic Auction		
			6 = Request for Quotes		
→ 811	PriceDelta	N		float	Maybe present if MDEntryType = 6 or M
→	TrdType	N	See table 4 in document "Codification Tables"	Int	Trade Type. Maybe present if MDEntryType is 2.
828					This value is used in conjunction with TrdSubType [829]
→ 829	TrdSubType	N	See table 4 in document "Codification Tables"	Int	Maybe present if MDEntryType is 2. This value is used in conjunction with TrdType [828]
			11 = Limited details trade "LMTF"		with manype [020]
			12 = Daily aggregated trade "DATF"		
→ 1934	RegulatoryReportTy pe	N	13 = Volume omission trade "VOLO"	Int	Level 4.2 - Post-Trade deferral or Enrichment MMT model
			14 = Four weeks aggregation trade "FWAF"		Maybe present if MDEntryType is 2
			15 = Indefinite aggregation trade "IDAF"		



Tag	Name	Req	Valid values	Format	Description
J			16 = Volume omission trade. Eligible for subsequent enrichment in aggregated form "VOLW"		·
			17 = Full details of previous LMTF "FULF"		
			18 = Full details of previous DATF "FULA"		
			19 = Full details of previous VOLO "FULV"		
			20 = Full details of previous FWAF "FULJ"		
			21 = Full details of previous VOLW "COAJ"		
	Tue de Dublieb In diese		1 = Immediate Publication		Level 4.1 - Publication Mode / Post-Trade Deferral Reason MMT model (see also
→ 1390	TradePublishIndicat or	N	2 = Non- Immediate Publication	Int	TrdRegPublicationType [2669] + TrdRegPublicationReason [2670]) Maybe present if MDEntryType is 2
	Start <trdregpublication Grp></trdregpublication 				Maybe present ii MDEntry Type is 2
→ 2668	NoTrdRegPublicatio ns	N		NumInGrou p	
			0 = Pre-trade	•	Value 0: Level 3.5 - Benchmark or Reference Price Indicator indicator MMT model (see also TrdRegPublicationReason [2670])
→→ 2669	TrdRegPublicationT ype	N	transparency waiver 1 = Post-trade deferral	Int	Value 1: Level 4.1 - Publication Mode / Post-Trade Deferral Reason MMT model (see also TradePublishIndicator [1390] + TrdRegPublicationReason [2670])
					Maybe present if MDEntryType is 2



Tag	Name	Req	Valid values	Format	Description
			6 = Non- Immediate Publication: Deferral for "Large in Scale" "LRGS"		
→→ 2670	TrdRegPublicationR eason	N	7 = Non- Immediate Publication: Deferral for "Illiquid Instrument" (RTS 2 only) "ILQD"	Int	Values 6, 7 and 8: Level 4.1 - Publication Mode / Post-Trade Deferral Reason MMT model (related to TradePublishIndicator [1390] = 2 and TrdRegPublicationType [2669] = 1)
			8 = Non- Immediate Publication: Deferral for "Size Specific" (RTS 2 only) "SIZE"		Maybe present if MDEntryType is 2
	End <trdregpublication Grp></trdregpublication 				
→ 1188 *	Volatility	N		float	Maybe present if MDEntryType = 6 or M
-					Effective trade amount.
→ 381*	GrossTradeAmt	N		Amt	Maybe present when MDEntryType is 2 or B
→ 880*	TrdMatchID	N		String	Trade registration number. Identifier of partial fill or filled order, assigned by central system. Maybe present when MDEntryType = 2
	Start <trdregtimestamp< td=""><td></td><td></td><td></td><td>Maybe present when MDEntryType = 2</td></trdregtimestamp<>				Maybe present when MDEntryType = 2
→ 768*	s> NoTrdRegTimestam ps	N		NumInGrou p	
→→ 769*	TrdRegTimestamp	N		UTCTimesta mp	 When TrdRegTimestampType [770] = 1, it contains the trade execution date and time When TrdRegTimestampType [770] = 11, it contains the date and time publicly reported of the trade



Tag	Name	Req	Valid values	Format	Description
→→ 770*	TrdRegTimestampT ype	N	1 = Execution time 11 = Publicly reported	Int	
	End < TrdRegTimestamps				
	>				
	Standard Trailer	Υ			



7 RFQ and Indication of Interest

7.1 Introduction

The RFQ functionality allows HF MEFFGate Gate clients to receive information about the RFQ entered to the central systems of MEFF

A client only receives information on the RFQ for those contracts on which it has requested price information (Bid or Offer) in the Market Data Request message

On the other hand, there is the possibility of making an Indication of Interest to the market prior to the introduction of orders in the opposite direction, with the intention of matching a previously agreed operation. This operation will be carried out through the Indication of Interest message.

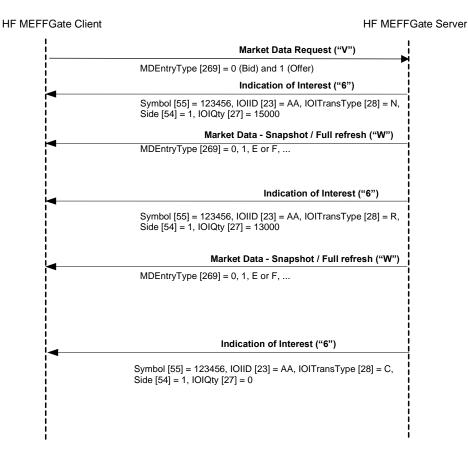
7.2List of messages

Message	Description
Indication of Interest (Msg Type = 6)	Message sent by HF MEFFGate to inform about different RFQ in a security or the Indications of Interest to the market
Market Data Snapshot Full Refresh (Msg Type = W)	Message sent by HF MEFFGate to inform about the RFQ prices in a security



7.3 Message flow

Reception of RFQ / Indication of Interest to the market



7.4 Annotations and adaptations of FIX 5.0

The tag TradingSessionID [336] has been added to message Indication of Interest



7.5 Definition of messages

7.5.1 Indication of Interest (Msg Type = 6)

Message sent by HF MEFFGate to notify an indication of interest on a specific contract.

Name	Req	Valid values	Format	Description
	Υ			·
ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
IOIID	Y		String	If the message comes from an RFQ, it will contain the RFQ identifier message If the message comes from an Indication of Interest, it will contain the Identifier of the subscription made by the user
		N = New		
IOITransType	Υ	C = Cancel	Char	
		R = Replace		
Start <instrument></instrument>				
Symbol	Υ	Contract code	String(22)	Contract code
NoSecurityAltID	N		NumInGrou p	
SecurityAltID	N		String	
SecurityAltIDSource	N	4 = ISIN number	String	When SecurityAltIDSource [456] = 4, it contains the ISIN code for the contract
End <instrument></instrument>				
		1 = Buy		
Side	Y	2 = Sell	Char	
		7 = Undisclosed		
IOIQty	Υ		String	RFQ volume requested
Price	N		Price	RFQ price requested
IOIQltyInd	N	H = High (RFQ requested) M = Medium (Order requested)	Char	Request Type Value "H" indicates RFQ has been requested through new trading modes 115, 116, 117 or 118, for responses addressed to the petitioner.
	ApplID ApplSeqNum IOIID IOITransType Start <instrument> Symbol NoSecurityAltID SecurityAltID SecurityAltIDSource End <instrument> Side IOIQty Price</instrument></instrument>	Standard Header Y ApplID N ApplSeqNum N IOIID Y IOITransType Y Start <instrument> Symbol Y NoSecurityAltID N SecurityAltID N SecurityAltIDSource N End <instrument> Side Y IOIQty Y Price N</instrument></instrument>	Standard Header Y MsgType = 6 ApplID N ApplSeqNum N IOIID Y IOIID Y N = New IOITransType Y C = Cancel R = Replace Start <instrument> Y Symbol Y NoSecurityAltID N SecurityAltIDSource N A = ISIN number End <instrument> 1 = Buy Side Y Y 2 = Sell 7 = Undisclosed IOIQty Y Price N IOIQltyInd N M = Heigh (RFQ requested) IOIQty Y Prequested) M = Medium (Order</instrument></instrument>	ApplID N String ApplSeqNum N SeqNum IOIID Y String N = New IOITransType Y C = Cancel Char R = Replace Start <instrument> Symbol Y Contract code String(22) NoSecurityAltID N N NumInGrou P SecurityAltID N String SecurityAltID N String SecurityAltID N String I = Buy Side Y 2 = Sell Char 7 = Undisclosed IOIQty Y T Undisclosed IOIQty Y T String Price N H = High (RFQ requested) IOIQltyInd N M = Medium (Order IOIQltyInd Char ApplID String String R = Replace Char NumInGrou P String String Char T = Undisclosed Char Char (RFQ requested) Char Char (Order)</instrument>



Tag	Name	Req	Valid values	Format	Description
					Value "M" indicates RFQ is asking for price quotations in the order book, addressed to all market participants.
60	TransactTime	N		UTCTimeSta mp	Event time
			100 = IBEX futures hours / FX		
			105 = Normal hours		
			107 = Bono hours		
336*	TradingSessionID	N	115 = RFQ (IBEX futures hours)	String	Trading mode
			116 = RFQ (normal hours)		
			117 = RFQ (Bono hours)		
			118 = xRolling on Stocks		
	Standard Trailer	Υ			



8 Communication of Events

8.1 Introduction

The News message is used to receive information from the Market Supervisor.

The information received has a free text format.

8.2 List of messages

Message	Description
News (Msg Type = B)	Used to receive text messages from the market supervisor

8.3 Message flow

Message reception



8.4 Annotations and adaptations of FIX 5.0

No annotations or adaptations have been made to the messages in this chapter



8.5 Definition of messages

8.5.1 News (Msg Type = B)

Tag	Name	Req	Valid values	Format	Description
	Standard Header	Υ	MsgType = B		
1180	ApplID	N		String	Used in conjunction with ApplSeqNum [1181] to indicate, in subsequent connections, the point from which to receive information
1181	ApplSeqNum	N		SeqNum	Used in conjunction with ApplID [1180] to indicate, in subsequent connections, the point from which to receive information
42	OrigTime	N		UTCTimeSta mp	Event time
61	Urgency	N	0 = Normal 1 = Flash 2 = Background	Char	The default value is 0
148	Headline	Υ		String	Message header. Ignored by HF MEFFGate
33	LinesOfText	Υ	1	NumInGrou p	Number of lines of text. Only one line allowed
→ 58	Text	Υ		String(78)	One line of text
	Standard Trailer	Υ			



User Fields

The following table shows the user fields that are found in the messages of this manual

Tag	Name	Format	Description
	MoreSubscriptionsF ollowing	Boolean	Allows to group market information subscription requests.
21500			For more information see "3.6 - Synchronisation at application level"
		String	Indicates, for all tags in which a timestamp is included, the timestamp format:
21501	LocalMktTimestamp		Y – HF MEFFGate will send the local market time (all messages up to microseconds)
			N – HF MEFFGate will send the the time in UTC format according to the FIX standard (all messages up to microseconds)
			For more information see 4.5
21505	BusinessSessionDat e	LocalMktDat e	Current business session date.



This material has been prepared by Bolsas y Mercados Españoles, Sociedad Holding de Mercados y Sistemas Financieros S. A. (BME), its subsidiaries, affiliates and/or their branches (together, "BME") for the exclusive use of the persons to whom BME delivers this material. This material or any of its content is not to be construed as a binding agreement, recommendation, investment advice, solicitation, invitation or offer to buy or sell financial information, products, solutions or services. The information does not reflect the firm positions (proprietary or third party) of the entities involved in the Spanish Securities Market. BME is under no obligation to update, revise or keep current the content of this material, and is subject to change without notice at any time. No representation, warranty, guarantee or undertaking – express or implied – is or will be given by BME as to the accuracy, completeness, sufficiency, suitability or reliability of the content of this material.

The opinions presented are theoretical and, therefore, the content hereof is intended for informational purposes only and should not be used for portfolio or asset valuations, or as the basis for any investment recommendations. Neither contributing Entities, nor Bolsas y Mercados Españoles, Sociedad Holding de Mercados y Sistemas $Financieros \, S.A. (BME) \, nor \, any \, of \, its \, subsidiaries, \, accept \, responsibility \, for \, any \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, made \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, based \, on \, the \, information \, contained \, in \, this \, material. \, In \, financial \, loss \, or \, decision \, based \, or \, based \,$ general, neither Bolsas y Mercados Españoles, Sociedad Holding de Mercados y Sistemas Financieros S. A. (BME) nor any of its subsidiaries, nor the contributing Entities, their directors, representatives, associates, subsidiaries, managers, partners, employees or advisors accept any responsibility for this information or unauthorised use of the same.

This material is property of BME and may not be printed, copied, reproduced, published, passed on, disclosed or distributed in any form without the express prior written consent of BME.

2023 Bolsas y Mercados Españoles, Sociedad Holding de Mercados y Sistemas Financieros S. A. All rights reserved.

Plaza de la Lealtad,1 Palacio de la Bolsa 28014 Madrid

www.bolsasymercados.es





