



# UBS MTF

## FIX Interface

Rules of Engagement

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# Version history

Version	Date	Changes and remarks
4.5	April 2018	Added Periodic Auction market segment. See especially <b>3</b> , <b>7.3.1</b> , and <b>7.4.1</b> . MAQ behaviour modified; see <b>3.3</b> . Dark Sweep functionality and best bid/best offer pegged execution instructions removed; see 3.10 – Sweep Functionality removed; also 3.11 and 7.3.1. Minor edits for clarity and removal of transitional information for MiFID II.
4.4	November 2017	AccountType is now mandatory ( <b>7.3.1</b> ). ExecID structure is modified to meet MiFID II transaction identification code requirements ( <b>7.4.1</b> ). Added information on eligibility for Reference Price Execution ( <b>3.11</b> )
4.3	September 2017	Removed restatement of MiFID II identifiers in Parties component from Execution Report ( <b>7.4.1</b> )
4.2	April 2017	Added new fields on order messages in support of MiFID II requirements; (see section <b>3.12</b> , Party Identifiers, and FIX Message details, section <b>7</b> ) Introduces AccountType for specification of CCP account to use at <b>3.13</b> Mandatory granularity of microseconds on message timestamps at 3.6 Remove field 20061(WaiverType) in favour of the standard field 8013 on Execution Report at <b>6</b> and <b>7.4.1</b> . Updated symbology examples ( <b>5.1</b> ), and added details of further order rejection codes ( <b>7.5</b> ).
4.1	January 2017	Added specification for content of ExecId and ExecRefId (section 7.4.1, Execution Report)
4.0	November 2016	Sweep order and Large in Scale execution support (sections 1.1 and 3.10) Introduce optional granularity of microseconds on message timestamps at 3.6
3.5	August 2016	Added information on <a href="#">session times</a> and <a href="#">order expiry</a> at end of day (section 3.5). Typographical correction at 3.4.
3.4.1	August 2016	Updated UBS Ltd company address.
3.4	June 2016	Return an execution report following attempted order modification/cancellation where this is prevented by an execution immediately prior (3.8, <a href="#">Pending messages</a> ).
3.3	April 2016	Added tag 15 – Currency in <a href="#">FIX Message details</a> . Updated examples in <a href="#">Uniform Symbology</a> to reflect recent changes by Reuters for XVTX instruments.
3.2	February 2016	Added tag 1 – Account.
3.1	October 2015	Clarifications on requirement to send tag 47, and reject reasons documented for tags 102 and 103. Corrected description of replace request handling for unacknowledged orders.
3.0	September 2015	Major update for new connectivity model. Transact time now sent on all execution reports.
2.5	June 2015	New layout. Timestamp precision increased.
2.4	December 2014	Updated to reflect new names of external organisations.
2.3	September 2013	Clarified MinQty usage.
2.2	June 2012	Tag 9004 – Internalization.
2.1	April 2012	Minor clarifications.
2.0	September 2011	Sent LastLiquidityInd on execution reports.
1.9	August 2011	Refer to ESMA, rather than CESR.
1.8	August 2011	Introduces Bid and Offer order books.

1.7	March 2011	Minor clarifications for pegged orders.
1.6	November 2010	Initial version at launch.

# 1. Introduction

This document defines UBS MTF's implementation of the FIX protocol.  
The document is designed to facilitate the work required to establish trading connectivity and is intended to supplement the published FIX protocol specification [1] and the UBS MTF Rule Book [2].

# 2. Background

The Markets in Financial Instruments Directive (MiFID) was a catalyst for change in the European execution market place, with the result that the importance of credible electronic trading technology and the ability to harness technology to source liquidity have become paramount for the broking community.

As part of the industry adaptation to the changes introduced by MiFID II, UBS MTF is introducing a lit, periodic auction order book to operate in parallel with the existing dark, continuous auction order book,

Access to UBS MTF is restricted to its members and requires separate documentation to the standard trading terms and conditions that regulate other execution services provided by UBS. This documentation can be obtained via your usual relationship manager, on the web at <http://ubs.com/mtf/>, or by contacting UBS MTF directly at [ubs\\_mtf@ubs.com](mailto:ubs_mtf@ubs.com).

# 3. Functional Overview

## 3.1. General

UBS MTF operates two market segments, a dark, continuous, order book, and a lit, periodic auction, order book.

On the dark order book, UBS MTF accepts orders for execution under both reference price (RPW), and large in scale (LIS) pre-trade transparency waivers. On this segment, UBS MTF accepts and matches Pegged orders only, on a non-discretionary basis using a waiver/price/time priority at the mid-point of the reference market.

On the periodic auction segment, UBS MTF accepts limit orders only. Price determination and allocation priority is as described in the Rule Book and associated User Guide.

There is no minimum order size on UBS MTF.

Members of UBS MTF have the ability to set a Minimum Acceptable Quantity and Limit Price on all orders. Open orders are automatically cancelled at the end of each trading day.

### 3.2. Order Priority

Orders are matched as specified in the UBS MTF Rulebook.

### 3.3. Minimum Acceptable Quantity (MAQ)

Where a partial fill occurs on an order that had an MAQ, should the remaining quantity on that order fall below the MAQ the effective Minimum Acceptable Quantity will become the remaining quantity of the order. Orders received by UBS MTF with an MAQ that is greater than the order quantity are rejected.

### 3.4. Internalization

By default, orders from a member may be self-crossed.

Members can use a FIX instruction of '9004=4' on orders to prevent self-trading or intra-team trading (within the same member entity, see section 6 below).

Where a member operates under more than one member code, these may be configured by UBS MTF to act as a single family for the purpose of this instruction.

### 3.5. Session Times

UBS MTF operates during regular market hours in Europe, between 08:00 and 16:30 (UK time), and session times match those of the reference market where the underlying security is listed. Matching is not performed outside the reference market's continuous trading phase. There is no trading during auctions or halts. If trading on the reference market is suspended UBS MTF will suspend execution for each affected instruments until continuous trading is resumed. During these times orders may be entered, amended, and cancelled, but will not be executed. Orders entered before market open, or after market close, will be rejected.

#### 3.5.1. Order Expiry

Day orders remaining on the order books after market close will be cancelled at or shortly after 16:45. An unsolicited Execution Report (35=8) will be returned via FIX, with ExecType=Cancelled (150=4), OrdStatus=Cancelled (49=4).

### 3.6. Time Stamps

The *UTCTimestamp* fields (TransactTime, SendingTime, and OrigSendingTime) may be sent to UBS MTF in either whole seconds, milliseconds, or microseconds UTC, as specified in [3]. UBS MTF will transmit timestamps at microsecond granularity in all timestamps.

### 3.7. Cancel on Disconnect

Order entry sessions are configured by default to automatically cancel all open orders in the event of disconnection. Any outstanding execution reports will be returned during session recovery when connectivity is re-established.

### 3.8. Pending messages

UBS MTF allows cancellation when a new order has not yet been acknowledged, i.e. the order is in a 'Pending New' state. Amends / Cancels will be rejected by UBS MTF if the order is already in a 'Pending Amend' or 'Pending Cancel' state.

If an order Cancel or Cancel/Replace request is received by the FIX gateway, and is not accepted due to a fill occurring on the order immediately beforehand, a reject message will also be returned in a second Execution Report following the initial Execution Report notifying the member of the fill.

In summary:

Current Order State	Request	Outcome
Pending New	Pending Cancel	<b>Allowed</b>
Pending New	Pending Amend	<b>Amend is Rejected</b>
Pending Amend / Pending Cancel	Pending Amend/ Pending Cancel	<b>Second Request is Rejected</b>
Working, Fill message in flight	Replace requested	<b>Fill is delivered Replace Request is rejected as order is fully filled</b>
Working, Partial Fill message in flight	Replace Requested	<b>Fill is delivered Replace Request is rejected if unsuccessful</b>
Working, Fill message in flight	Cancel requested	<b>Fill is Delivered Cancel request is rejected as order is fully filled</b>
Working, Partial Fill message in flight	Cancel requested	<b>Fill is Delivered Cancel request is accepted</b>

### 3.9. Drop Copy

Members may request a drop copy feed for executions on their FIX sessions. The format of the execution reports provided by this feed, and session-level messages, correspond to the details in section 7 below.

### 3.10. Large in Scale execution

Orders that are large in scale (LIS) compared to normal market size as defined in MiFID are eligible for execution on UBS MTF's dark order book under a MiFID pre-transparency waiver ("Large in Scale waiver"). Orders will only execute under the Large in Scale waiver if both the buy and sell orders meet the LIS criteria. If not fully filled against facing LIS orders, the remaining quantity of a resident LIS-eligible order may execute against either further Large in Scale orders, or against non-large in scale orders under the reference price waiver.

Orders that are not large in scale (LIS) compared to normal market size may only be executed on UBS MTF's dark order book under the reference price waiver (RPW). Alternatively, orders may instead be sent to the UBS MTF periodic auction order book.



All orders on UBS MTF execute using the prevailing reference price of the instrument, i.e. the mid price from the most relevant market for the instrument.

At each point in time where crossing may occur, if an order may be executed against either a large in scale order or a non-large in scale order, the former will take priority. Where multiple large in scale orders are eligible to execute against, price and time priority will then apply.

UBS MTF offers a choice to its members, and when submitting a LIS order a member may instruct UBS MTF that orders must match against other orders exclusively under the LIS waiver, by using the order attribute RequestedCrossingWaiverType, defined below.

For all instruments available for trading on UBS MTF, the minimum order value which qualifies as large in scale is determined using the Average Daily Turnover published by ESMA, considered in conjunction with the Large in Scale table as specified under MiFID<sup>1</sup>. For instruments that are not priced in Euros, UBS MTF applies a currency conversion using the foreign exchange reference rates published the previous working day by the European Central Bank.

Orders that do not meet the criteria to be Large in Scale compared with normal market size under MiFID may only execute on UBS MTF dark order book under Reference Price Waiver according to the conditions set out in MAR 5.7.1(2)a, and will therefore be rejected if instructed as LIS only. If not instructed as LIS only they will be eligible for execution under reference price waiver only.

### 3.11. Reference Price Execution

Orders are not eligible for execution on the dark order book unless entered as mid-pegged (FIX tag 18=M).

Additionally, where use of Reference Price Waiver in an instrument is suspended, due to volume caps or otherwise, no orders may be accepted for execution under Reference Price Waiver. Orders may continue to be entered onto the dark order book if large in scale compared to normal market size, or onto the periodic auction order book.

For each instrument available to trade on UBS MTF, the capping status and minimum order value to qualify as large in scale on UBS MTF are as specified in our Guide to Reference Data [2].

### 3.12. Party Identifiers

UBS MTF supports submission of MiFID II identifiers via short code in the *Parties* component on order messages. These will become mandatory, where applicable, on the implementation of MiFID II but may be optionally submitted before this time.

MiFID II Field <sup>2</sup>	Party Role	PartyRoleQualifier
Client Identification code	ClientId (3)	Firm or Legal Entity (23)
		Natural Person (24)
Execution within firm	Executing Trader (Executing decision maker) (12)	Algorithm (22)

<sup>1</sup> FCA Handbook, MAR 5.7 Pre-trade transparency requirements for shares, <https://www.handbook.fca.org.uk/handbook/MAR/5/7.html>

<sup>2</sup> RTS 27 Annex, Table 2

		Natural Person ( <b>24</b> )
Investment decision within firm	Investment Decision Maker ( <b>122</b> )	Algorithm ( <b>22</b> )
		Natural Person ( <b>24</b> )

The following four values are reserved and may not be registered as short codes, but should be used as applicable on order messages:

For PartyRole=3 (ClientId):

- 0 = NONE – No client for this order
- 1 = AGGR – An aggregation of multiple client orders
- 2 = PNAL – Clients are pending allocation

For PartyRole = 12

- 3 = CLIENT - Time and venue of the order instructed by the client of the participant

## 4. Connectivity

UBS MTF is vendor neutral, although there is existing connectivity with the following providers: Radianz, TNS and Fixnetix. It is also possible for members to cross-connect if they have presence in the Equinix LD4 Data Centre in Slough, or in Interxion London. Full details are available in the UBS MTF Connectivity Guide, available on our website [2].

A restricting factor on the number of FIX sessions a member can have is the overall bandwidth of the member's line. The suggested bandwidth for a managed service is a 1MB line and 1G or 10G for a direct cross-connect.

Each member is allocated a TCP/IP port per connection – this port is unique to the member and a single connection is allowed per port.

In UAT or conformance testing, the use of an Internet session is recommended, as this allows members to begin testing and certification whilst awaiting the establishment of production connectivity. A test session via the member's chosen transport vendor is also possible, but certification would be delayed until this connectivity is in place.

## 5. Symbolology

UBS MTF lists a subset of stocks in the ESMA list of approved securities for regulated markets, as well as Swiss listed stocks.

### 5.1. Uniform Symbolology

In all cases the Symbol[55] value must be the Uniform Symbolology (UMTF) code. This code has been adopted by a number of European execution venues to uniformly identify securities traded across Europe. The following details on how this code is generated have been extracted from the Wikipedia article - [Uniform Symbolology](#) [4].

The Uniform Symbolology Algorithm is designed to be human readable, fit into 6 characters, have no symbol clashes and where possible, be derivable from another, freely available code.

It will consist of a stock code followed by a single, lower case letter designating the primary listing exchange. The stock code will be derived from the "local code" published by the primary exchange. These will be truncated where necessary.

If the local code contains a single letter class designator of A through Z (eg. "STE A") then the single letter class designator shall be retained and the code will be truncated to a maximum of 4 characters, plus the single letter class (A through Z) designator. For some Nordic stocks the share designator will be prefixed with "SDB" (eg. "SDBA"). In this case the "SDB" should be removed and the single letter class (A through Z) designator will be retained.

Any codes containing spaces, periods, underscores or second words (other than the single letter class (A through Z) described above) will be truncated at the space, period, etc. All remaining non-alphanumeric characters should be removed.

Market codes by market centre (including examples)

Market Centre	MIC	Market Code	Sample Local Code	Sample UMTF Code	Sample Company Name	RIC Suffix
Copenhagen Stock Exchange	XCSE	c	DANSK	DANSKc	Danske Bank Ord	CO
Deutsche Borse/Germany	XETR	d	BAS	BASd	BASF SE	DE
Euronext Amsterdam	XAMS	a	AGFB	AGFBb	AGFA-Gevaert NV	AS
Euronext Brussels	XBRU	b	INB	INBb	INBEV	BR
Euronext Paris	XPAR	p	RNO	RNOp	Renault	PA
Euronext Lisbon/Portugal	XLIS	u	ALTR	ALTRu	ALTRI SGPS	LS
Helsinki Stock	XHEL	h	HUH1V	HUH1Vh	Huhtamaki	HE

Exchange					OYJ	
Irish Stock Exchange	XDUB	i	IPDC	IPDCi	Independent News & Media PLC	I
Prague Stock Exchange	XPRA	k	CEZ	CEZk	CEZ AS	PR
London Stock Exchange	XLON	l	VOD	VODl	Vodafone Group Ord	L
Madrid/Spain (Espana)	XMCE	e	SAN	SANe	Banco Santander SA	MC
Borsa Italiana/Milan	XMIL	m	SPM	SPMm	Saipem	MI
Oslo Stock Exchange	XOSL	o	NHY	NHYo	Norsk Hydro	OL
Stockholm Stock Exchange	XSTO	s	ABB	ABBs	ABB Ltd	ST
Budapest Stock Exchange	XBUD	t	OTP	OTPt	OTP Bank PLC	BU
Vienna Stock Exchange	XWBO	v	VIG	VIGv	Vienna Insurance Group	VI
Swiss Exchange/Zurich (blue chip)	XVTX	z	SCHN	SCHNz	Schindler Holding AG	S
Swiss Exchange/Zurich (non-blue chip)	XSWX	z	UHR	UHRz	Swatch Group AG/The	S

## 5.2. Exchange Codes

UBS MTF returns its assigned ISO 10383 MIC Codes in the LastMkt<30> field on execution reports.

The operating MIC code for UBS MTF is **XUBS**.

UBS MTF operates market segments; using the following MIC codes:

**XUBS** – dark order book

**XUMP** - periodic auction order book.

## 6. UBS MTF-Specific FIX Fields

The following FIX fields are specific to UBS MTF:

MsgType	Tag	Field Name	Notes	Required
D	9004	Internalization	Provides crossing restrictions <b>4</b> (Do not execute against own orders). See section 3.4 above.	N
D	9303	RoutingInst	Indicate market segment to which order should be routed <b>D</b> Dark order book <b>P</b> Periodic auction order book <b>Default:</b> D	N
D	20060	RequestedCrossingWaiverType	Specifies whether a dark order may be executed under <b>1</b> Either Reference Price Waiver (RPW) or Large In Scale (LIS) Waiver, or <b>2</b> Only under LIS Waiver. Only meaningful if routing to the dark order book.	N

## 7. FIX Message details

### 7.1. Components

#### 7.1.1. Standard Header

Present on all messages

Tag	Name	Notes	Required
8	BeginString	FIX.4.2 Must be the first field in the message.	Y
9	BodyLength	Must be the second field in the message.	Y
35	MsgType	Must be the third field in the message.	Y
43	PossDupFlag	Always required for retransmitted messages, whether prompted by the sending system or as the result of a resend request.	N
52	SendingTime		Y
49	SenderCompID	As specified by UBS MTF	Y
56	TargetCompID	As specified by UBS MTF	Y
34	MsgSeqNum		Y
50	SenderSubID	May be used to provide the identity of the trader who entered the order.	N
97	PossResend	Required when message may be duplicate of another message sent under a different sequence number.	N
122	OrigSendingTime	Required for message resent as a result of a ResendRequest. If data is not available set to same value as SendingTime	N

#### 7.1.2. Standard Trailer

Present on all messages

Tag	Name	Required	Required
10	Checksum	Three byte, simple checksum (see [1] Volume 2: "Checksum Calculation" for description).	Y

#### 7.1.3. Parties

Supported on [New Order – Single](#), [Order Cancel Replace Request](#), and [Execution Report](#).

Tag	Name	Comments	Required	Possible Values
453	<a href="#">NoPartyIDs</a>	Repeating group below must contain unique combinations of PartyID, PartyIDSource, and PartyRole	Post MiFID II implementation	
448	PartyID	The short code representing the client or decision maker represented by this block. Data corresponding to this short code must have been previously supplied, or will be supplied by the end of the calendar day.	If NoPartyIDs (453) > 0.	Whole number short code. Values 0,1,2, and 3 are reserved; see <a href="#">Party Identifiers</a>
447	PartyIDSource		If NoPartyIDs (453) > 0.	<b>P</b> Short code identifier
452	PartyRole	See <a href="#">Party Identifiers</a>	If NoPartyIDs (453) > 0.	<b>3</b> ClientID <b>12</b> Executing Trader (Executing decision maker) <b>122</b> Investment Decision Maker
2376	PartyRoleQualifier	Used to further qualify the value of PartyRole	If NoPartyIDs (453) > 0.	<b>22</b> Algorithm (for PartyRole 12 or 122) <b>23</b> Firm or legal entity (for PartyRole 3) <b>24</b> Natural Person (for PartyRole 3,12, or 122)

## 7.2. Session-Level Messages

The following messages are supported in both directions:

MsgType	Description
A	Logon
0	Heartbeat
1	Test Request
2	Resend Request
3	Reject
4	Sequence Reset
5	Logout

### 7.2.1. Login

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = A	Y
98	EncryptMethod	0 ( <i>Always unencrypted</i> )	N
108	HeartBtInt	Note same value used by both sides	Y
141	ResetSeqNumFlag	Indicates both sides of a FIX session should reset sequence numbers	N
	<a href="#">Standard Trailer</a>		Y

### 7.2.2. Heartbeat

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 0	Y
112	TestReqID	Required when the heartbeat is the result of a Test Request message.	N
	<a href="#">Standard Trailer</a>		Y

### 7.2.3. Test Request

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 1	Y
112	TestReqID		Y
	<a href="#">Standard Trailer</a>		Y

### 7.2.4. Resend Request

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 2	Y
7	BeginSeqNo		Y
16	EndSeqNo		Y
	<a href="#">Standard Trailer</a>		Y

### 7.2.5. Reject

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 3	Y
45	RefSeqNum	MsgSeqNum of rejected message	Y
371	RefTagID	The tag number of the FIX field being referenced.	N
372	RefMsgType	The MsgType of the FIX message being referenced.	N
373	SessionRejectReason	Code to identify reason for a session-level Reject message.	N
58	Text	Where possible, message to explain reason for rejection	N
	<a href="#">Standard Trailer</a>		Y



### 7.2.6. Sequence Reset

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 4	Y
123	GapFillFlag		N
36	NewSeqNo		Y
	<a href="#">Standard Trailer</a>		Y

### 7.2.7. Logout

Tag	Field Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType = 5	Y
58	Text		N
	<a href="#">Standard Trailer</a>		Y

## 7.3. Messages from Member to UBS MTF

The following messages may be sent by a Member to UBS MTF:

MsgType	Description
D	New Order - Single
F	Order Cancel Request
G	Order Cancel/Replace Request
Q	Don't know trade

### 7.3.1. New Order Single

Tag	Name	Comments	Required	Possible Values
	<a href="#">Standard Header</a>	MsgType =D	Y	
109	ClientID	The member ID. If not set will use default configured per session. We will validate set of members per session.	N	As assigned by UBS MTF
11	ClOrdID	Identifier of the order as assigned by the member. Must be unique per session, per day.	Y	
18	ExecInst	Instructions for order handling. Amendments to tag 18 are rejected.	If routing to the dark order book.	<b>M</b> if buying or selling at the mid.
55	Symbol	Ticker Symbol	Y	UMTF Code
54	Side	Side of order	Y	<b>1</b> Buy <b>2</b> Sell
38	OrderQty	Number of shares ordered	Y	

40	OrdType	Order type	Y	<b>P</b> Pegged (dark order book only) <b>2</b> Limit (Periodic auction segment only)
60	TransactTime	Time the order was initiated	Y	
47	OrderCapacity	Designates the capacity of the firm placing the order	Y	<b>A</b> (default) 'AOTC' <b>P</b> 'DEAL' <b>R</b> 'MTCH'
59	TimeInForce	Dark: Day, or IOC Periodic: Day, or Good for Auction	Y	<b>0</b> Day <b>3</b> IOC <b>B</b> Good for auction (GFA)
44	Price	Optional price limit, specified in the currency of the instrument	Y if OrdType = Limit. N if Pegged	
15	Currency	If specified, must match the instrument currency code as specified in UBS MTF symbology file.	N	ISO 4217 Currency code; with the addition of GBX for instruments traded in Pence sterling.
110	MinQty	Displaying the minimum quantity of an order to be executed acting as an MAQ within UBS MTF	N	The value placed in tag 110 must be either equal or less than the OrderQty (tag 38). If the remaining quantity of a partially filled order falls below the value given here, the effective MinQty becomes the outstanding quantity of the order. <b>Default: 1</b>
9004	Internalization	Self-execution prevention	N	<b>4</b> (Do not execute against own orders). See section 2.5. <b>Default:</b> Can cross against own orders
1	Account	Returned on execution reports associated with this order	N	

20060	RequestedCrossingWaiverType	Specific whether an order may be executed under (1) either Reference Price Waiver (RPW) or Large In Scale (LIS) Waiver, or (2) only under LIS Waiver Only meaningful if routing to the dark order book; see 3.10 above.	N	<b>1</b> Either <b>2</b> LIS only <b>Default:</b> 1 (Either)
581	AccountType	Specifies the CCP account	Y	<b>1</b> Client <b>3</b> House
8015	OrderAttributeTypes	Flattened set of order attribute flags. If more than one attribute is applicable to an order, this field can contain multiple attributed separated by space. Absence of a flag indicates that the corresponding order attribute is false.	N	<b>2</b> Liquidity Provision activity flag <b>4</b> Algorithmic order flag. Indicates that the order was placed as a result of an investment firm engaging in algorithmic trading.
1724	OrderOrigination	Indicates DEA activity, as defined by MiFID II	N	<b>5</b> Order received from a direct access or sponsored access customer
9303	RoutingInst	Indicate market segment to which order should be routed.	N	<b>D</b> Dark order book <b>P</b> Periodic Auction Order book <b>Default:</b> D
	<i>Parties</i>	Parties component		
	<a href="#">Standard Trailer</a>		Y	

### 7.3.2. Order Cancel Request

Tag	Name	Comments	Required
	<a href="#">Standard Header</a>	MsgType =F	Y
109	ClientID	The member ID. If not set will use default configured per session. We will validate set of members per session.	N
11	ClOrdID	Unique identifier of cancel request as assigned by participant	Y
41	OrigClOrdID	ClOrdID of the originating order	Y
55	Symbol	Must match original order	Y
54	Side	Must match original order	Y
60	TransactTime	Time the cancel request was initiated	Y
	<a href="#">Standard Trailer</a>		Y

### 7.3.3. Order Cancel Replace Request

Only the Price (44), OrderQty (38), and MinQty (110) may be modified on cancel/replace. All other fields must be consistent with the original order.

Tag	Name	Comments	Req'd	Possible Values
	<a href="#">Standard Header</a>	MsgType =G	Y	
109	ClientID	The member ID. If not set will use default configured per session. We will validate set of members per session.	N	As assigned by UBS MTF
11	ClOrdID	Identifier of the order as assigned by the participant. Must be unique per session, per day.	Y	
41	OrigClOrdID	ClOrdID of the order to be replaced.	Y	
18	ExecInst	Must match original order.	Y	
55	Symbol	Must match original order.	Y	UMTF Code
54	Side	Must match original order.	Y	
38	OrderQty	New order quantity	Y	
40	OrdType	Must match original order.	Y	<b>P</b> Pegged (dark order book only) <b>2</b> Limit (Periodic auction segment only)
60	TransactTime	Time the replace request was initiated	Y	
47	OrderCapacity	Designates the capacity of the firm placing the order. Must match original order if set.	N	<b>A</b> (default) 'AOTC' <b>P</b> 'DEAL' <b>R</b> 'MTCH'
59	TimInForce	Must match original order if set.	N	
44	Price	New limit price	N	Optional price limit

15	Currency	Must match original order if set.	N	ISO 4217 Currency code; with the addition of GBX for instruments traded in Pence sterling.
110	MinQty	Displaying the minimum quantity of an order to be executed acting as an MAQ within UBS MTF.	N	The value placed in tag 110 must be either equal or less than the OrderQty (tag 38). If the remaining quantity of a partially filled order falls below the value given here, the effective MinQty becomes the outstanding quantity of the order. <b>Default: 1</b>
9004	Internalization	Must match original order if set.	If received on original order	
1	Account	Returned on execution reports associated with this order Must match original order if set. Otherwise amend will be rejected.	If not set value from original order is preserved .	
	<i>Parties</i>	Parties component		
	<a href="#">Standard Trailer</a>		Y	

#### 7.3.4. Don't Know Trade (DK)

Tag	Field Name	Comments	Required	Possible Values
	<a href="#">Standard Header</a>	MsgType = Q	Y	
109	ClientID	The member ID. If not set will use default configured per session. We will validate set of members per session.	N	As assigned by UBS MTF

37	<i>OrderID</i>	Order ID as identified on problem execution	Y	
17	<i>ExecID</i>	Execution ID of problem execution	Y	
127	<i>DKReason</i>		Y	<b>A</b> = Unknown Symbol <b>B</b> = Wrong Side <b>C</b> Quantity exceeds order <b>D</b> No matching order <b>E</b> Price exceeds limit <b>Z</b> Other
55	<i>Symbol</i>	Must match original order	Y	
54	<i>Side</i>	Must match original order	Y	
38	<i>OrderQty</i>	Must match original order	N	
	<a href="#">Standard Trailer</a>		Y	

#### 7.4. Messages from UBS MTF to Member

UBS MTF may send the following messages to members:

##### 7.4.1. Execution Report

Tag	Name	Comments	Required	Possible Values
	<a href="#">Standard Header</a>	MsgType =8	Y	
37	<i>OrderID</i>	Identifier of the order as assigned by UBS MTF. Unique across all orders on a daily basis.	Y	
11	<i>ClOrdID</i>	Identifier of replacement order as assigned by participant.	Y	
41	<i>OrigClOrdID</i>	OrderID for which cancellation or replacement was requested	Y <sup>3</sup>	
17	<i>ExecID</i>	Identifier of the transaction. Unique on a daily basis for each transaction For new executions (ExecTransType=0), the ExecID is structured as follows: (1) Four character code segment MIC ('XUBS', or 'XUMP') (2) Two digit matching engine identifier (3) Integer match identifier (unique per matching engine identifier per day)	Y	New trades e.g: • XUBS062906 • XUMP07134223 Cancellation e.g: • 1XUBS2906

<sup>3</sup> Required if sent in response to Cancel or Cancel/Replace

		For cancelled trades (ExecTransType=1), the ExecId follows the same syntax, with the addition of a one-character prefix of the digit '1'		
150	ExecType	Describes the type of execution report	Y	<b>0</b> New <b>1</b> Partial Fill <b>2</b> Fill <b>4</b> Cancelled <b>5</b> Replaced <b>8</b> Rejected
20	ExecTransType	Identifies transaction type	Y	<b>0</b> New <b>1</b> Cancel
19	ExecRefID	Identifies cancelled execution. The value given will correspond to an ExecId from an earlier new Fill or Partial Fill.	Y <sup>4</sup>	ExecId of the cancelled execution, if ExecTransType=1
18	ExecInst	On ExecType=New, Cancelled, Replaced, Rejected - reflects value entered by member on corresponding prior message. On ExecType=Fill or Partial Fill, reflects the Peg on which the trade occurred, i.e. <b>M</b> See 1.1 above	Y if from dark order book, otherwise not set.	<b>M</b> (mid-peg only)
55	Symbol	As sent on the originating order	Y	
54	Side	As sent on the originating order	Y	
38	OrderQty	As sent on the originating order	Y	
39	OrdStatus	Current status of the order	Y	<b>0</b> New <b>1</b> Partially Filled <b>2</b> Filled <b>4</b> Cancelled <b>5</b> Replaced <b>6</b> Pending Cancel (i.e. result of Order Cancel Request) <b>8</b> Rejected <b>E</b> Pending Replace (i.e. result of Order Cancel/Replace Request)
32	LastShares	Quantity of shares bought/sold on this (last) fill	If 150=1 or 2	Integer

<sup>4</sup> If ExecTransType=1 (Trade cancel)

31	LastPx	Price of this (last) fill	If 150=1 or 2	
15	Currency	Populated if specified on New Order – Single message (35=D)	If sent on 35=D	ISO 4217 Currency code; with the addition of GBX for instruments traded in Pence sterling.
30	LastMkt	Segment MIC for this execution	If 150=1 or 2	<b>XUBS</b> , or <b>XUMP</b>
29	LastCapacity	Capacity on order execution. This reflects the order capacity.	If 150=1 or 2	<b>1</b> AOTC <b>3</b> 'MTCH' <b>4</b> DEAL
151	LeavesQty	Amount of shares open for further execution	Y	
14	CumQty	Amount of executed shares on the order	Y	
6	AvgPx	Average price of all fills on the order	Y	
60	TransactTime	Time the transaction represented by this Execution Report occurred	Y	
851	LastLiquidityInd	Applicable only on ExecTransType (150) of Partial or Filled.		<b>1</b> Added Liquidity <b>2</b> Removed Liquidity <b>4</b> Auction
58	Text	Additional information if ExecType=8 (Rejected)	N	
103	OrdRejReason	Additional information if ExecType=8(Rejected)		<b>0</b> Broker Option <b>1</b> Unknown Symbol <b>2</b> Exchange Closed <b>3</b> Order Exceeds Limit <b>6</b> Duplicate Order
1	Account		If received on original order	
8013	TrdRegPublication Reasons	Indicates the pre-trade transparency waiver under which the trade was conducted.	If applicable , on150=1	<b>3</b> = Reference Price (RFPT) <b>9</b> = Large in Scale (LRGS)



			or 2	
581	AccountType	Specifies the CCP account	Y	<b>1 Client</b> <b>3 House</b>
8015	OrderAttributeTypes	Flattened set of order attribute flags. If more than one attribute is applicable to an order, this field can contain multiple attributed separated by space. Absence of a flag indicates that the corresponding order attribute is false.	If received on original order	<b>2</b> Liquidity Provision activity flag <b>4</b> Algorithmic order flag.
1724	OrderOrigination	Indicates DEA activity, as defined by MiFID II	As received on original order	<b>5</b> Order received from a direct access or sponsored access customer
7772	CentralCounterParty	The Central Counterparty, or 'NONE' if the trade is eligible for clearing suppression	If 150=1 or 2	EMCF = European Multilateral Clearing Facility LCHL = LCH.Clearnet XCLR = SIX x-clear NONE = self-clear (no CCP)
	<a href="#">Standard Trailer</a>		Y	

#### 7.4.2. Order Cancel Reject

Tag	Name	Comments	Required	Possible Values
	<a href="#">Standard Header</a>	MsgType =9	Y	
37	OrderID	Identifier of the order as assigned by UBS MTF.	Y	

39	OrdStatus	Current status of the order	Y	<b>0</b> New <b>1</b> Partially Filled <b>2</b> Filled <b>4</b> Cancelled <b>5</b> Replaced <b>6</b> Pending Cancel (i.e. result of Order Cancel Request) <b>8</b> Rejected <b>E</b> Pending Replace (i.e. result of Order Cancel/Replace Request)
11	ClOrdID	ClOrdID as assigned by the order cancel or replace request	Y	
41	OrigClOrdID	As sent on the originating order	Y	
58	Text		N	
102	CxlRejReason		Y	<b>0</b> Too late to cancel <b>1</b> Unknown order <b>2</b> Exchange option <b>3</b> Order already in Pending Cancel or Pending Replace status
434	CxlRejResponseTo		N	<b>1</b> Order cancel request <b>2</b> Order cancel/replace request
	<a href="#">Standard Trailer</a>		Y	

## 7.5. Order Rejection Codes

The following Rejection Codes may be sent back to Members in the event of an order reject; these are in addition to the reason code in tag 103. This is not a comprehensive list, and other messages may also appear in tag 58. Additional values for tags 102 and tag 103 are reserved for future use.

Code Text (Tag 58)	Description
EXEC INST	Execution Instruction missing, or invalid
INVALID ACCOUNT TYPE	AccountType is missing, or invalid
Invalid waiver type (LIS) crossing instruction	The RequestedCrossingWaiverType value received on New order – Single message is undefined
Market closed	Market is closed
MIN QTY	The given MAQ is invalid
MinQty exceeds OrderQty	The given MAQ is larger than the OrderQty
NOT AUTH	The member is not authorised to submit orders in this instrument (no central counterparty relationship defined)
Order does not meet required LIS threshold	The order was submitted for execution under solely Large in Scale Waiver, but does not meet the notional value threshold for doing so.
Reference Price Waiver Suspended	Order was rejected due to dark volume cap – order was not large in scale.
ORDERTYPE	The specified OrderType is invalid
UNKNOWN SECUID	The given symbol is not available for trading
Validation breach:{reason}	The order failed pre-trade controls. One of more reasons are given in the message, e.g.: OrderQuantity (OrderQty exceeds pre-defined risk limit) OrderNotional (notional value of the order exceeds pre-defined risk limit)
XE001	System is not enabled
XE002	Market is not open
XE003	Order is not eligible for trading
XE004	Order is not eligible for crossing
XE006	Instrument is not open
XE007	Market manually disabled
XE008	Instrument manually disabled
XE010	Account disabled
XE011	Instrument suspended

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