



# **UMDF FIX/FAST and Conflated – Platform Update**

Customer Impact Document

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### REVISION HISTORY

Date	Version	Description	Author
11-24-2023	1.0	Minor changes in UMDF FIX/FAST and UMDF Conflated platform behavior.	SZA, EVJ
01-22-2024	1.1	<p>Adding behavior changes for trade deletion messages and Security Status messages.</p> <p>Removing behavior change for SecurityAltIDSource in repeating group NoSecurityAltIDs</p>	JPM
02-27-2024	1.2	<p>Removing behavior change for NetChgPrevDay field. Therefore, the information will be available in the first trades of the day as result of an opening auction.</p> <p>Removing behavior change for Security Status messages. Therefore, messages will be published only on the channel where there are associated instruments.</p> <p>The behavior change about field SecurityAltID (tag 455) was moved to correct section “Behavior changes in SecurityList”.</p> <p>Described in more detail the grouping behavior in Security List Messages.</p> <p>Adding behavior changes for field TradeDate (tag 75) in PriceBand, QuantityBand, AuctionImbalance and Order Messages.</p>	SZA, JPM, VMU

# UMDF FIX/FAST and Conflated – Platform Update

## Customer Impact Document

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03-08-2024	1.3	Adding behavior change for News messages generated by news agencies on Channel 63 and replicated on Derivative channels.	VMU
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### ABBREVIATIONS

Abbreviation	Description
<b>FAST</b>	FIX Adapted for Streaming – a specification for data compression to reduce bandwidth usage, especially for market data feeds.
<b>FIX</b>	Financial Information Exchange Protocol
<b>PUMA</b>	PUMA Trading System
<b>SBE</b>	Simple Binary Encoding
<b>UMDF</b>	Unified Market Data Feed
<b>VWAP</b>	Volume-Weighted Average Price

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### 1 Introduction

The Unified Market Data Feed (UMDF) FIX/FAST and Conflated Platforms are receiving a major update. The FIX/FAST messages will be synthesized from Binary Market Data (SBE) messages, and for compatibility issues, some messages from the FIX/FAST Incremental feed will have a minor impact, slightly changing their behavior.

The changes, old and new behaviors are described in the next sections below.

### 2 Behavior changes in SecurityList messages (35=y)

#### 2.1 Grouping

Number of instrument definitions per message in the incremental stream.

Old behavior:

- A single SecurityList message can have one or more instrument definitions (repeating group “RelatedSym”).

New behavior:

- Every SecurityList message will have just one instrument definition (number of repeating groups “NoRelatedSym” is always 1).

The old behavior remains for the instrument streams.

#### 2.2 Field SecurityAltID (tag 455) in repeating group NoSecurityAltIDs (tag 454)

Removed leading zeros from SecurityAltID when SecurityAltIDSource value is equal to 'H'.

Old behavior:

- Some SecurityAltID values had a leading zero when the SecurityAltIDSource value was equal to 'H'.

New behavior:

- No SecurityAltID values have a leading zero when the SecurityAltIDSource value is equal to 'H'.

### **2.3 ApplFeedID (tag 1180) in repeating group NoApplIDs (tag 1351)**

Channel numbers will always be padded with zeros.

Old behavior:

- The channel number can be padded with zeros or not. For instance: “MBO001” or “MBO1”, “MBO010” or “MBO10”.

New behavior:

- The channel number will be always padded with zeros, having three decimal digits. For instance: “MBO001”, “MBO010”.

## **3 Behavior changes in Incremental messages (35=X)**

### **3.1 Grouping (only for UMDF FIX/FAST, not for UMDF Conflated)**

The frequency of incremental messages will increase, with smaller size.

Old Behavior:

- Incremental messages less frequent and large, with many repeating groups

New Behavior:

- Incremental messages will be more frequent and smaller with fewer repeating groups.

### 3.2 Field MDEntrySize (tag 271) for single order deletions

The field MDEntrySize will be sent for order deletions if available.

Old behavior:

- Field MDEntrySize (tag 271) is not sent for order deletions: MDEntryType (tag 269) = “0” (BID) or “1” (OFFER), MDUpdateAction (tag 279) = “2” (DELETE)).

New behavior:

- Field MDEntrySize is sent if available.

### 3.3 MDEntryType VWAP (269=9)

VWAP will be published only at the “End of Event” time (usually at each trade, but if several trades resulted from a single aggressor order matching several orders, then VWAP will be published only after all those trades).

Old behavior:

- VWAP (value-weighted average price) is published every time its value is changed (usually at each trade).
- VWAP is published in a MDEntry in the same message of related trades.

New behavior:

- VWAP is published in a separate message after the last Trade message of current event.
- The scale (number of digits after the decimal point) will be fixed to 8.

### **3.4 Fields MDEntryBuyer (tag 288) and MDEntrySeller (tag 289) for trade deletions messages**

Trade deletion messages will not carry MDEntryBuyer and MDEntrySeller fields.

Old behavior:

- Fields MDEntryBuyer (tag 288) and MDEntrySeller (tag 289) were sent in Trade deletions messages.

New behavior:

- Fields MDEntryBuyer (tag 288) and MDEntrySeller (tag 289) will not be sent in Trade deletions messages.

### **3.5 Fields MDInsertDate (tag 37016) and MDInsertTime (tag 37017) for trade deletions messages**

Trade deletion messages will not carry MDInsertDate and MDInsertTime fields.

Old behavior:

- Fields MDInsertDate (tag 37016) and MDInsertTime (tag 37017) were sent in Trade deletions messages.

New behavior:

- Fields MDInsertDate (tag 37016) and MDInsertTime (tag 37017) will not be sent in Trade deletions messages.

### **3.6 Field SellerDays (tag 287) for trade deletions messages**

Trade deletion messages will not carry SellerDays field.

Old behavior:

- Field SellerDays (tag 287) was sent in Trade deletions messages when available.

New behavior:

- Field SellerDays (tag 287) will not be sent in Trade deletions messages.

### **3.7 Field TradeDate (tag 75) for PriceBand (269=g), QuantityBand (269=h), AuctionImbalance (269=A) and Order messages (269=0 or 269=1)**

PriceBand, QuantityBand, AuctionImbalance and Order messages will not carry the TradeDate field.

Old behavior:

- Field TradeDate (tag 75) was sent in PriceBand, QuantityBand, AuctionImbalance and Order messages.

New behavior:

- Field TradeDate (tag 75) will not be sent in PriceBand, QuantityBand, AuctionImbalance and Order messages.

## **4 Behavior changes in News messages (35=B)**

### **4.1 News messages (35=B) generated by news agencies on Channel 63 replicated on Derivative channels**

News messages generated by news agencies and published on Channel 63 will not be replicated on Derivatives channels (only for UMDF FIX/FAST, since we do not have this replication in UMDF Conflated).

Old behavior:

- The Derivatives channels published News messages from all sources (messages generated by the matching engine and messages generated by news agencies).

New behavior:

- News messages generated by the matching engine will continue to be published on Derivatives and Equities channels.
- News messages from news agencies will be published only on Channel 63.

#### **4.2 NewsID (tag 1472)**

NewsID is the unique identifier for News message.

Old behavior:

- NewsID was not sent in News (tag 35=B) message.

New behavior:

- NewsID will now be sent in News (tag 35=B) message.