FIX TRADING COMMUNITY Market Model Typology (MMT) Workshop

Revised Data Standard FIX MMT v4.1 FIX France Trading Conference, November 14 2023

> Marc Berthoud & Matt Bumstead FIX MMT Technical Committee Co-Chairs



WHAT IS THE RATIONALE FOR USING <u>FIX MMT</u>?



Improving post-trade transparency



Source: Refinitiv



Why do we have FIX MMT?

Purpose: MMT is an efficient operational solution for fulfilling trade flagging, incl. respective regulatory requirements.

It became a de facto standard for trade reporting across all equity and part of non-equity markets, predominantly in Europe.

Benefits: MMT delivers unambiguous post trade transparency information, that is created at the source, and which may flow (e.g. STP) along the full market data value chain.

MMT supports fully electronic processing of consistently flagged data points without the need for local reinterpretation/mapping of the same events across different sources. It improves data quality and reduces cost.

It is protocol agnostic.



Post-trade transparency typically informs about ...

- the validity of the transaction information (e.g. a cancellation).
- the trading venue the execution took place on.
- the type of **market mechanism** used to perform liquidity pooling.
- the type of interaction between the buyer(s) and seller(s), and if it was of a bilateral or multilateral nature.
- the level of pre-trade transparency which was available before the execution.
- the level of timestamping accuracy is available for determining the exact sequence of executions.
- the immediacy or deferral of the trade publication.



Components of post-trade transparency

MessageName = Trade Type = TR	
Version = 100	
Subtopic = PostTrade, Auction Topic=768	
Package = 5	
Flags = Delta, Single	
SendTime = 20171026-07:00:38.034374	
Isin = CH0005795668	
Currency = CHF	security
Exchange = XSWX	
ExecutionTime = 20171026-	
07:00:38.000015	
TradeId = 00031D6UH1P0001T	
PublishTime = 20171026-07:00:38.000015	transaction id
PublicationVenue = XSWX	
Price = 0.920000	
 PriceNotation = M	price & size
 Size = 614	
 NotionalAmount = 0.000000	
NostroCross = 0	
TradeToBeCleared =	
SpecialPrice = 0	
 MMT flags = 10PH	
 MarketMechanism = 1 LB	
 TradingMode = 0 0A	MMT informat
 TransactionCategory = -	
 NegotiationIndicatorOrWaiver = -	
 AgencyCrossTradeIndicator = -	
 ModificationIndicator = -	
 BenchmarkOrReferencePriceIndicator = -	
 SpecialDividendIndicator = -	
 OffBookAutomatedIndicator = -	
OrdinaryOrOutsidePriceFormation = P P	
AlgorithmicIndicator = H ALGO	
PublicationMode = -	
PostTradeDeferralType = -	
DuplicativeIndicator = -	

Source: SIX Swiss Exchange (MDDX)



entification code

tion block

publication & execution time



MMT Components

MMT flags = 10-MarketMechanism = 1 LB TradingMode = 0 TransactionCategory = NegotiationIndicatorOrWaiver AgencyCrossTradeIndicator = -ModificationIndicator = BenchmarkOrReferencePriceIndicator SpecialDividendIndicator = -OffBookAutomatedIndicator = -OrdinaryOrOutsidePriceFormation = AlgorithmicIndicator = H ALGO PublicationMode = -PostTradeDeferralType = DuplicativeIndicator =

* for the defined market mechanism and trading mode Source: SIX Swiss Exchange (MDDX)

CLOB

Opening Auction

Standard Trade *

Valid Trade

No Pre-Trade Transparency Waiver

Plain Vanilla Execution

Algorithmic Flag

Immediacy of publication

Uniqueness of information



WHO HAS ADOPTED MMT?



Stakeholders that have adopted MMT



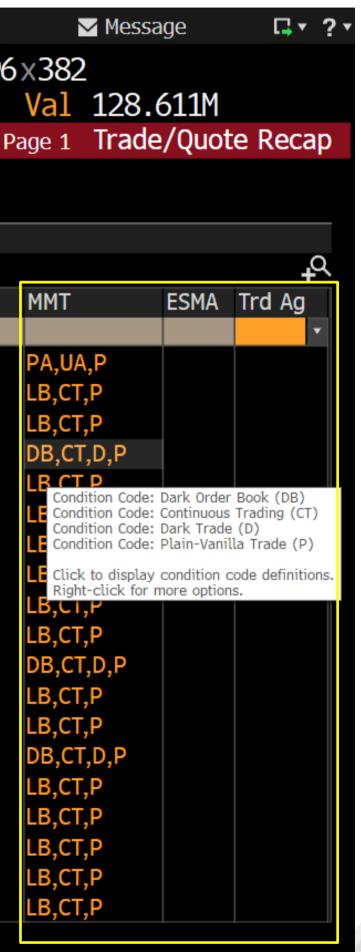




Bloomberg Desktop Terminal

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	08:04:14	387		-			5/10/23	08:04:14	
	08:04:11	229			· ·		5/10/23	08:04:11	
	08:04:11	93		-			5/10/23	08:04:11	
	08:04:10	374			· ·		5/10/23	08:04:10	
	08:04:10	417			· ·		5/10/23	08:04:10	
	Currency GB								

Source: Bloomberg





Bloomberg's Market Data Feed (B-PIPE)

 $MarketDataEvents = {$ MKTDATA EVENT TYPE = TRADE MKTDATA EVENT SUBTYPE = NEW EVT TRADE PRICE = 18.318EVT TRADE SIZE RT = 1046

> • • • = "DB" EVT TRD MMT LEVL 1 TRD TYP CD RT = <u>"CT"</u> EVT TRD MMT LEVL 2 TRD TYP CD RT EVT TRD MMT LVL 3.1 TRD T CD RT = <u>"D"</u> EVT TRD MMT LVL 3.2 TRD T CD RT \\ // = \\\// EVT TRD MMT LVL 3.3 TRD T CD RT = \\\// EVT TRD MMT LVL 3.4 TRD T CD RT EVT TRD MMT LVL 3.5 TRD T CD RT = "RFPT" = \\\// EVT TRD MMT LVL 3.6 TRD T CD RT = \\\// EVT TRD MMT LVL 3.7 TRD T CD RT EVT TRD MMT LVL 3.8 TRD T CD RT = "P" EVT TRD MMT LVL 3.9 TRD T CD RT = "ALGO" = \\/// EVT TRD MMT LVL 4.1 TRD T CD RT = \\\// EVT TRD MMT LVL 4.2 TRD T CD RT = \\\// EVT TRD MMT LVL 5 TRD TYP CD RT



Dark Order Book

Continuous Trading

Dark Trade

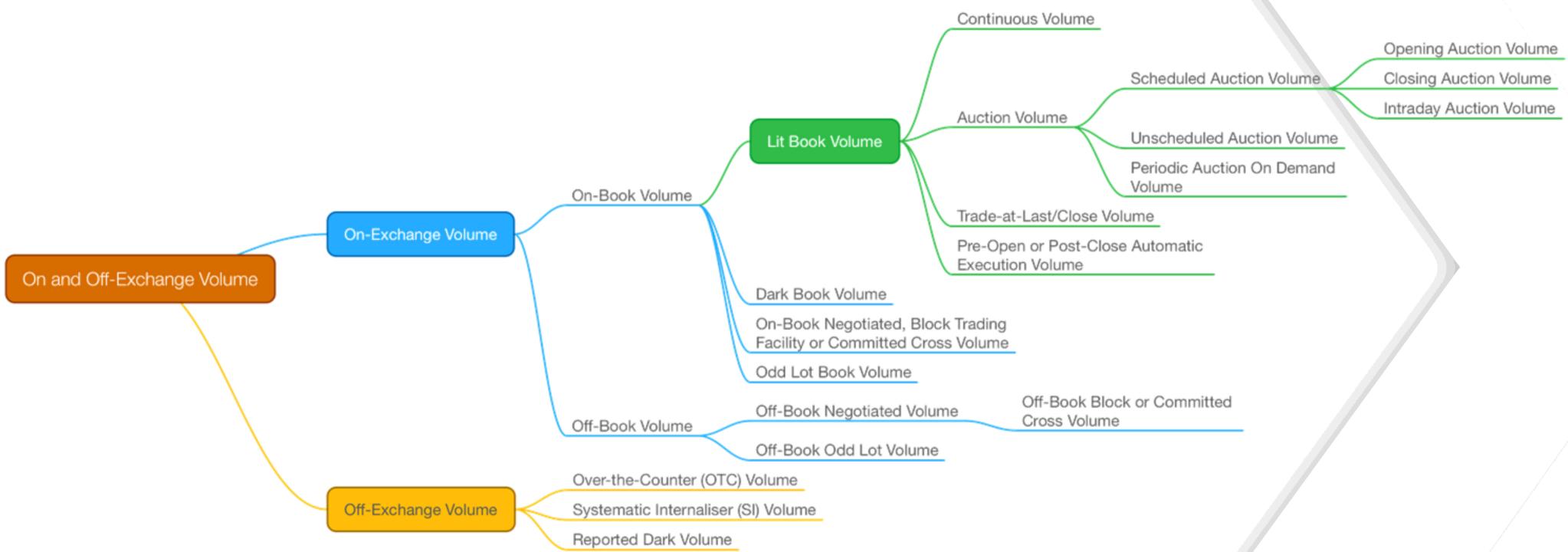
Reference Price Trade

Plain-Vanilla Trade

Algorithmic Trade



Bloomberg Executed Volume Statistics (BEVS)



Source: Bloomberg

Sensitivity: C2 Internal



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/ Time and Sales [ERIC-B.ST]

strument	ReceivedTime	TrdTm	Size	Price	Τt	VWAP	Fla VWVol	Bid	Ask	MMT Codes	^
IC-B.ST	02 Mar 12:59	12:59:41	507	57.89	AT	57.628	2.7056r	n 57.89	57.91	LB,CT,P	
IC-B.ST	02 Mar 12:59	12:59:29	224	57.9	AT	57.628	2.7051r	n 57.88	57.9	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:59	12:59:10	250	57.89	ΜT			57.88	57.9	DB,CT,D,RFPT,P,ALGO	
IC-B.ST	02 Mar 12:59	12:59:00	366	57.89	AD			57.89	57.9	PA,UA,P,ALGO	
IC-B.ST	02 Mar 12:59	12:59:00	1,645	57.89	AT	57.628	2.7048	n 57.89	57.9	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:59	12:59:00	570	57.89	AT	57.628		n 57.89	57.9	LB,CT,P	
IC-B.ST	02 Mar 12:58	12:58:53	44	57.9	AT	57.628	2.7026	n 57.9	57.91	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:58	12:58:53	488	57.9	AT	57.628		n 57.9	57.91	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:57	12:57:58	519	57.9	AT	57.628	2.7021r	n 57.9	57.92	LB,CT,P	
IC-B.ST	02 Mar 12:57	12:57:49	1,651	57.9	AT	57.628	2.7016r	n 57.89	57.9	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:57	12:57:42	172	57.895	ΜT			57.89	57.9	DB,CT,D,RFPT,P,ALGO	
IC-B.ST	02 Mar 12:57	12:57:21	337	57.89	AT	57.627	2.6999r	n 57.89	57.9	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:57	12:57:12	32	57.89	AT	57.627	2.6996	n 57.88	57.89	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:56	12:56:50	472	57,88	AD			57.87	57.89	PA,UA,P,ALGO	
IC-B.ST	02 Mar 12:56	12:56:32	72	57.89	AT	57.627	2.6995r	n 57.88	57.9	LB,CT,P,ALGO	
IC-B.ST	02 Mar 12:55	12:55:41	555	57.86	AT	57.627	2.6995r	n 57.86	57.87	LB,CT,P,ALGO	
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Sensitivity: C2 Internal Source: ION Fidessa



SIX Financial Information – Market Data Feed (MDF)

BOURSE_CODE	ISIN	VALOREN	ISSUER	TPCURR	REPTTPRI	REPTRADE	REPTBATE	TRTIME	REPTTIMEMICROSEC	REPTRADEMMT
SWX	US0231351067	645156	AMAZON.COM RG	CHF	1430	1430	TRA	9:04:21	908154	20P
SWX	FI0009000681	472672	NOKIA RG	CHF	the second se	5.562	TRA	9:02:57	251950	20P
SWX	LU0838782315	20028815	XTR DAX IN U 1D	CHF	126.08	126.08	TRA	9:55:20	248608	22PH
SWX	CH0200252812	20025281	1.125 AUSNET 19	CHF	101.69	101.69	TRA	9:33:29	877116	22PH
SWX	CH0197841551	19784155	4 EDP FINANCE 18	CHF	103.15	103.15	TRA	10:18:58	392087	22PH
SWX	CH0194958986	19495898	1.375 SVENSKA 22	CHF	and the second se	106.25	TRA	10:22:02	463622	22PH
SWX	CH0194836364	19483636	SCOR OPEN	CHF	and the second se	101.35	TRA	9:36:20	945431	22PH
SWX	CH0194695190	19469519	SWISS LIFE -S FRN	CHF	and the second se	102.4	TRA	10:08:56		22PH
SWX	IE00888DZ566	19328353	ISHS S&P 500 CHF-AC	CHF		48.62	TRA	9:37:24	514382	22PH
SWX	IE00888VCK12	19328350	ISHS WORLD CHF-ACC	CHF	and the second sec	the local data was not been as a second se	TRA	9:11:13	921785	22PH
the state of the s	LU0641007421	19204552	XTR2 GI-LBD 4DHD	CHF	Conception of the local division of the loca	107.32	TRA	10:40:23		22PH
SWX	CH0187695553	18769555	2 LGT BANK 19	CHF	Contraction of the Advanced Processing of the Advanced Procesing of the Advanced Processing of the Adv	103.39	TRA	9:52:49	457909	22PH
SWX	IE00B3XXRP09	18575508	VAN S&P 500 ETF USD	CHF	and the second sec	and the second se	TRA	9:48:35		22PH
	CH0184305016	18430501	SBIDSPF1-5-CHF ADIS	CHF	the second state in the second s	26.73	TRA	10:00:20		22PH
	IE00B6TLBW47	18425202	ISHS JPM EM BD USD	CHF		and the second sec	TRA	9:39:21	462216	22PH
the standard state of the state	CH0183136057	18313605	ZKBPLATETF -AA CHF-	CHF	and the second s	281.45	TRA	10:54:39	1 AAA75 2145	22PH
the second s	CH0183136024	18313602	ZKBSILVERETF-AAHCHF	CHF	And the second se	the second state of the se	TRA	10:40:29		22PH
	IE0087452L46	14969108	SPDR UK ALL GBP-ACC	CHF		63.44	TRA	10:47:33		22PH
	CH0146698425	14669842	1.25 EIB 19	CHF	and the second se	102.95	TRA	10:28:41		22PH
	IE0086R52036	13937387	ISHS GLD PRD USD-AC	CHF	and the second se	8.486	TRA	10:48:13		22PH
	CH0139101601	13910160	ZKB GOLDETF-AAH CHF	CHF	a distant and a second	Sector Print	TRA	10:46:50	and the second se	22PH
and the second se	CH0139101593	13910159	ZKB GOLD ETF-AA CHF	CHF	Constraint and Article and	and the second sec	TRA	10:25:30	and the second sec	22PH
	IE0084613386	12931546	SSGA SPDR BL BD USD	CHF		72.43	TRA	10:47:30		22PH
	NL0009739416	12871311	POSTNL BR	CHF	and the second se	3.767	TRA	9:02:57		22PH
	CH0122526608	12252660	2.625 ENAG 23	CHF	Auto in particular to the	104	TRA	9:44:35		22PH
the second se	CH0120743346	12074334	2 HSBC SFH 19	CHF	and the second se	102.91	TRA	9:30:52		22PH
the second s	CH0118923918	11892391	UBSETF SBID715CHFAD	CHF		146.94	TRA	9:45:22	1.556.65	22PH
	CH0118923876	11892387	UBSETF SBID13CHF AD	CHF	and show the second		TRA	9:58:55		22PH
	DK0060252690	11784376	PANDORA RG	CHF	the second se		TRA	9:04:28		22PH
and the second se	CH0116015352	11601535	CMCIOILSFCHADIS	CHF	the balance of the	a second and the local data and	TRA	10:10:51		22PH
	CH0116014934	11601493	UBSETFPLTN-USD ADIS	CHF	a set in the set	89.23	TRA	9:45:37	T (5, F., 5, F.	22PH
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1	LU0480132876	10920548	UBSETF MSCIEM USDAD	CHF	Contract of the Association of t	and the second se	TRA	9:31:25		22PH
	LU0411075376	10804968	XTR LEVDAX DS 1CC	CHF				9:36:36		22PH
	IE0084L5ZG21	10608422	ISH EUR CO EX-F EUR	CHF	Concession of the local division of the loca		TRA	9:28:15		22PH
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	LU0392496690	4878674	COMS ATX ID	CHF	and the second sec	47.01	TRA	10:20:09		22PH
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Source: SIX Financial Information (visualisation of the Market Data Feed)



LSEG Refinitiv – Desktop

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\sim filters			14-N	1ar-2022 14	:01:05.837								47		LB, CT, P, ALGO	
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MMT Trade	Conditions	s to exclude	14-N	1ar-2022 14	:00:32.867			the	des	KTOP	Via the	e quote app	21		LB, CT, P, ALGO	
		~	14-N	1ar-2022 14	:00:25.567								10		LB, CT, P, ALGO	
			14-N	lar-2022 14	00.24 980						XLON	▲ 7 654 0000	21			

Sensitivity: C2 Internal Source: Refinitiv

ADING **INDUSTRY-DRIVEN • INDEPENDENT • NEUTRAL**

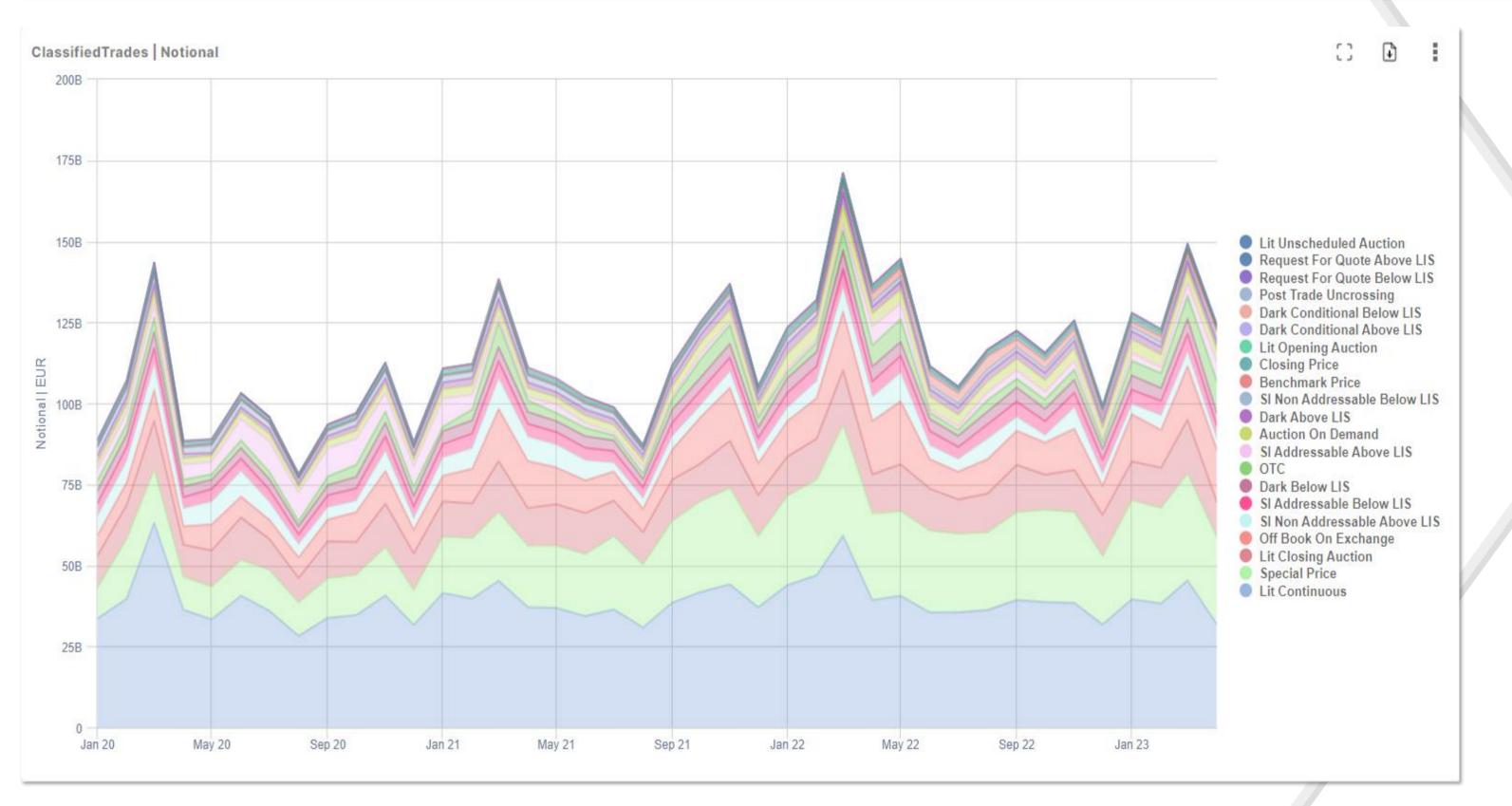
LSEG Refinitiv – Realtime Feed

SEG.L	Market Price	2022-03-14T14:00:08.058601045Z	0 Raw	UPDATE	TRADE		
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			FID	13432	TR_TRD	_FLG 1	l <mark>ob</mark>
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Using MMT for analytics: European classified trades



BMLL Vantage



WHAT HAS CHANGED WITH THE LATEST RTS 1 / RTS 2 REVIEW?





Trade Flagging modifications driven by regulation

Final Report



28 March 2022 ESMA70-156-4825



* * * ****

* esma European Securities and Markets Authority

Opinion

Amendments to Commission Delegated Regulation (EU) 2017/587 (RTS 1) and Commission Delegated Regulation (EU) 2017/583 (RTS 2)



19 December 2022 | ESMA70-156-6261



Amended EU RTS 1 and RTS 2 provisions for MMT v4.0

- New Market Mechanism "Hybrid System" (RTS 1 and RTS 2)
- 'CONT' flag to be added (RTS 1)
- 'PORT' flag to be added (RTS1 and RTS2)
- Combinations of 'PRIC', 'CONT', 'PORT' permitted
- Combination with 'NPFT' is excluded
- Amended "NPFT" definition (RTS1 and RTS2)
- 'TNCP" flag to be deprecated (RTS 1)

\rightarrow Application date: Jan. 1st 2024

See ESMA70-156-4944



Amended FIX Recommended practices

- 'NTLS',OTC Trade Larger than LIS brought onto a venue
- IGRP' new flag for Intra-Group transactions executed for administrative or position management purposes
- 'GIVE' new flag for RFMD give-ups transactions
- 'XBDT' new flag for trades reported more than once due to overlapping regulatory reporting rules in different jurisdictions



New separate Market Mechanism "Hybrid System"

2.	5 Hybrid system		A system falling into two or more of the types of trading systems referred to in rows 1 to 4 of this table.	- -	
	6	Any other trading system	Any other type of trading system not covered by rows 1 to 5.	Adequate information as to the level of orders or quotes and of trading interest in respect of shares, depositary receipts, ETFs, certificates and other similar financial instruments traded on the trading system; in particular, the five best bid and offer price levels and/or two-way quotes of each market maker in that instrument, if the characteristics of the price discovery mechanism so permit.	

		Options		MiFID II F	Equivalencies	or Uti ه
Level	Full Name	ESMA Stipula	Display Code	Trade Flag	RTS 1 (equity)	(nor equ
1	MARKET MECHANISM					
	Central Limit Order Book	"1"	"LB"	n/a	×	×
	Quote Driven Market	"2"	"QB"	n/a	×	×
	Dark Order Book	"3"	"DB"	n/a	×	×
	Off Book (including Voice or Messaging Trading)	"4"	"OB"	n/a	×	×
	Periodic Auction	"5"	"PA"	n/a	×	×
	Request for Quotes		"RQ"	n/a		
	Any Other, Including Hybrid	"7"	"AH"	n/a	×	×

▼ RISI & RISZ (Versus a display-only



New flags: Portfolio (PORT) and Contingent Transaction (CONT)

Table 2 SUMMARY OF ESMA'S PROPOSALS REGARDING THE VARIOUS LISTS OF NON-PRICE FORMING TRANSACTIONS

	Types of transactions	Art 2 of RTS 1 (STO)	Art 6 of RTS 1 (NT3)	Art 13 of RTS 1 / Art 12 of RTS 2
Benchmark transactions	the transaction is executed by reference to a price that is calculated over multiple time instances according to a given benchmark, including transactions executed by reference to a volume-weighted average price or a time-weighted average price:	Exempted from STO (no change proposed)	Eligible for NT3 transactions (no change proposed)	Not exempted from OTC post-trade transparency (no change proposed)
Portfolio trade t	the transaction is part of a portfolio trade	Exempted from STO (no change proposed)	Eligible for NT3 transactions (no change proposed)	Not exempted from OTC post-trade transparency (no change proposed)
Contingent trade (1)	the transaction is contingent on the purchase, sale, creation or redemption of a derivative contract or other financial instrument where all the components of the trade are to be executed only as a single lot	Exempted from STO (no change proposed)	Eligible for NT3 transactions (no change proposed)	Not exempted from OTC post-trade transparency (no change proposed)



Removal of Flag: Trade Not Contributing to Price Discovery (TNCP)

CONTEXT	ESMA/MMT FLAG	BACKGROUND
Price Discovery Process	Remove existing flag [TCNP] MMT Level 3.8 Will be deprecated, but will remain in the model for backward compatibility purposes	Overlap and co NPFT (Non-Pric

onfusion with the existing flag ice Forming Trade)



Main features of FIX MMT v4.0 data model

- Enlargement of data model beyond v3.04 data structure
- Decoupling of display and efficient encoding data structures
- Efficient Encoding data structure keeps the existing 14 positions of the MMT string



New Matrix for v4.0 Efficient encoding (see excel file, Tab «Efficient encoding» on FIX website)

• The efficient encoding for MMT v4.0 is backwards compatible with the efficient encoding for the preceeding version, MMT v3.04.





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		PORT	CONT									
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		PORT	CONT									



Trade Flagging modifications driven by regulation <u>FCA PS23/4</u>





Amended FCA provisions for MMT v4.1

1) Deletion of SI related flags \rightarrow see PS 23/4 § 3.48

- 'RPRI' flag to be deprecated [L 3.1]
- 'ILQD' flag to be deprecated [L 3.2]
- 'SIZE' flag to be deprecated [L 3.10]

2) Deletion of misc. flags \rightarrow see PS 23/4 § 3.57

- 'ACTX', agency cross flag, to be deprecated [L 3.3]
- 'DUPL', duplicate trade flag, to be deprecated [L 5.1]

3) Deletion of flags related to pre-trade transparency waiver \rightarrow see PS 23/4 § 3.68

- 'NLIQ', negotiated trade in liquid instrument flag, to be deprecated [L 3.2]
- 'OILQ', negotiated trade in illiquid instrument flag, to be deprecated [L 3.2]
- 'PRIC', negotiated trade subject to other conditions, to be deprecated [L 3.2]





Amended FCA provisions for MMT v4.1

- 4) New flags for simplified pre trade transparency waiver representation
- → see PS 23/4 § 3.45 + 3.68 + § 3.73
- 'CLSE', Benchmark transactions executed at the market closing price to be added [L 3.5]
 - There is mutual exclusivity between the new 'CLSE' and the existing 'BENC' flag
- 'NETW', the negotiated trade waiver flag, to be added [L3.2]
- 'NTLS', flag for large in scale trade that are bilaterally negotiated off-book, to be added [L 3.2]
- 'TNCP', Transaction not contributing to price discovery, to be re-activated [L 3.8] (was deprecated du to EU regulation in v4.0)

→ Application Date on April 29 2024





Main features of FIX MMT v4.1 data model

- Stick to existing Display Encoding Structure used for v4.0
- Efficient Encoding data structure keeps the existing 14 positions of the MMT string



WHAT YOU SHOULD REMEMBER ABOUT FIX MMT



What you should remember about FIX MMT

- FIX MMT delivers an operational solution for fulfilling trade flagging regulatory requirements raised by ESMA. <u>Have a look!</u>
- FIX MMT is suitable for all asset classes subject to MiFID/MiFIR.
- FIX MMT is an off-the-shelf industry solution and can be freely used without any licensing constraint.
- FIX MMT is protocol agnostic. It is supported in the FIX Protocol.
- FIX MMT has been adapted to the latest trade flagging requirements from ESMA and FCA.
- FIX MMT is a collaborative initiative; additional expertise is always welcome.
 Please submit your questions/comments to:
- Please submit your questions/comments to: <u>fix@fixtrading.org</u>







