

Market Model Typology (MMT)



Marc Berthoud
MMT Co-Chair
FIX Trading Community
Executive Director, Head Exchange Data Strategy
SIX Swiss Exchange



Hanno Klein
FIX Technical Director and Global Technical
Committee Co-Chair
FIX Trading Community
Founder and Senior Standards Advisor
FIXdom



Nazed Mannan
Global Product Manager
BMLL Technologies

FIX TRADING COMMUNITY

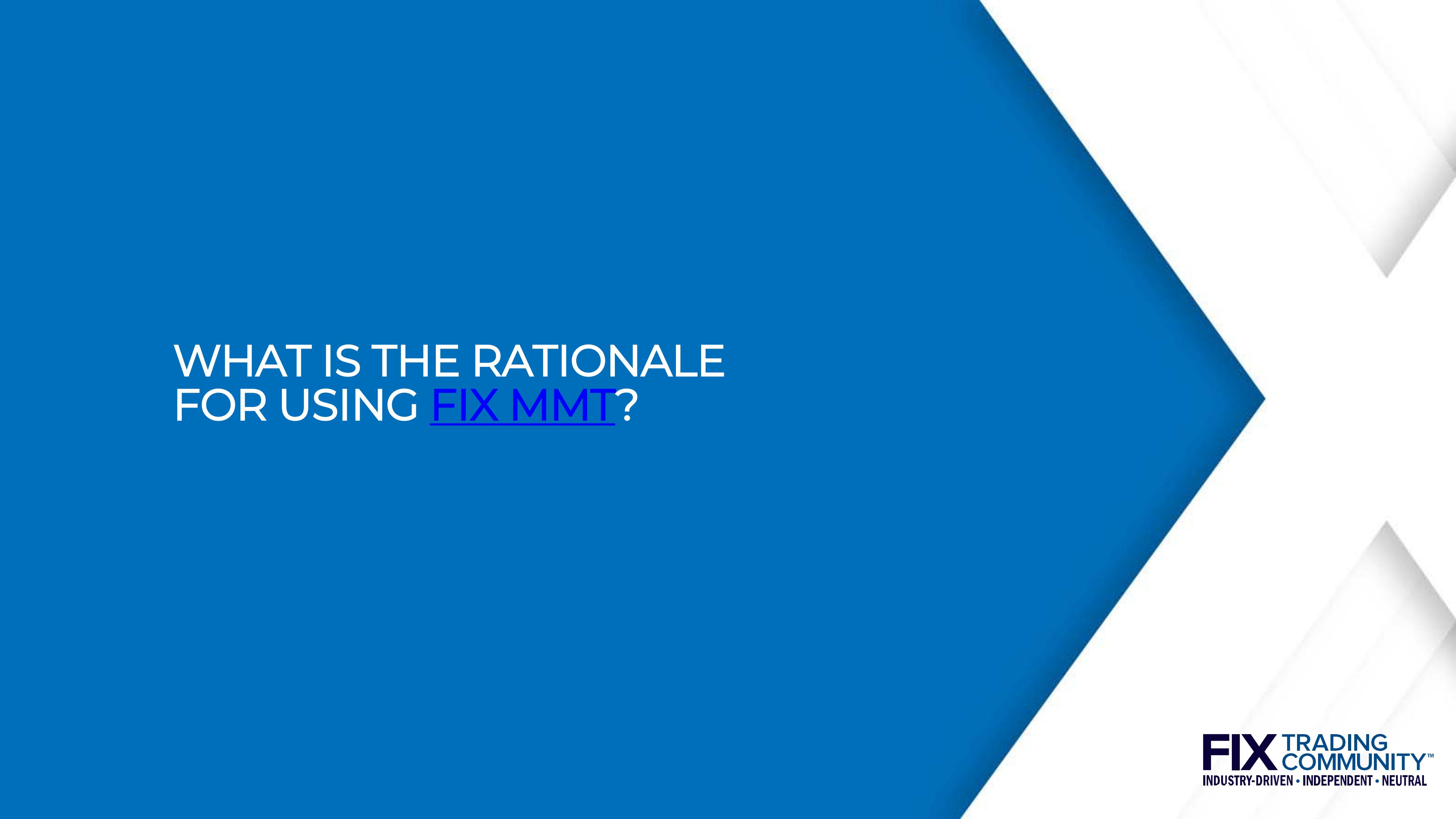
Market Model Typology (MMT) Workshop

Revised Data Standard FIX MMT v4.1
FIX Nordics Trading Conference, Stockholm May 16 2024

Marc Berthoud, SIX Exchanges, FIX MMT Technical Committee Co-Chair

Hanno Klein, FIX Technical Director

Mazed Mannan, BMLL, FIX MMT Technical Committee Member



WHAT IS THE RATIONALE
FOR USING FIX MMT?

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
Exchange = XSWX
```

```
ExecutionTime = 20171026-
07:00:38.000015
```

```
TradeId = 00031D6UH1P0001T
```

```
PublishTime = 20171026-07:00:38.000015
```

```
PublicationVenue = XSWX
```

```
Price = 0.920000
PriceNotation = M
Size = 614
```

```
NotionalAmount = 0.000000
NostroCross = 0
TradeToBeCleared =
SpecialPrice = 0
```

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

security

transaction identification code

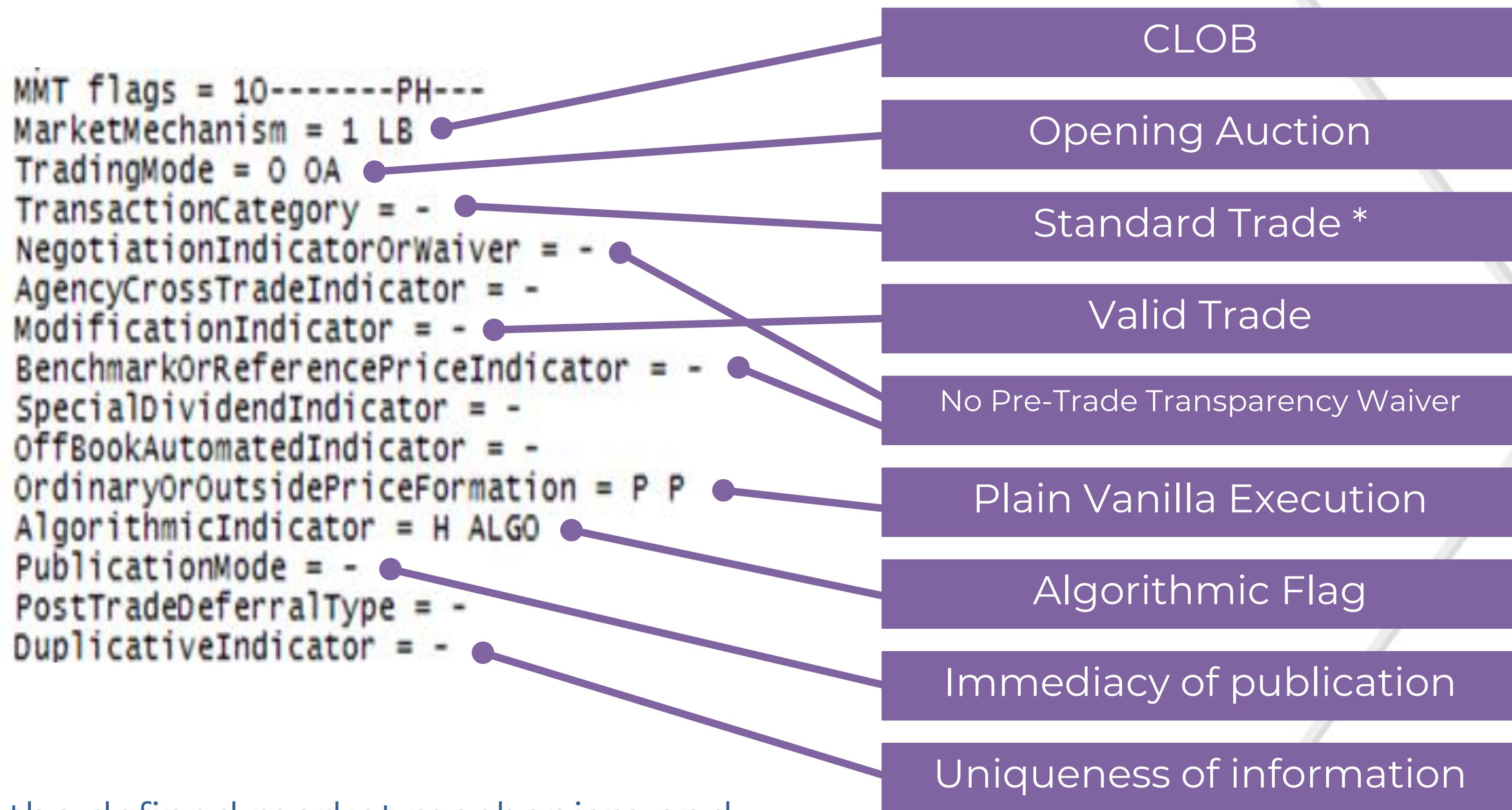
price & size

MMT information block

publication & execution time

Source: SIX Swiss Exchange (MDDX)

MMT Components



* for the defined market mechanism and trading mode

Source: SIX Swiss Exchange (MDDX)

WHO HAS ADOPTED MMT?

Stakeholders that have adopted MMT



Bloomberg



London
Stock Exchange



REFINITIV™



wiener
boerse

Bloomberg Desktop Terminal



BPL TQ GBP ↑ 489.20 +2.15 T489.20/489.45T 896x382
At 8:27 d Vol 262,664 0 489.25T H 491.05T L 487.90T Val 128.61M

BPL TQ Equity EU 1) Actions 97) Settings Page 1 Trade/Quote Recap

Range 05/10/23 08:00:00 - 05/10/23 16:30:00
2) Trade Recap 3) Quote Recap

Show Ticks All Cond Code Definitions

High 491.05 Low 487.90

Time	Size	Price	E	MIC	Cond	Trd Date	Trd Time	BSCC	MMT	ESMA	Trd Ag
	<min size>										
08:05:17	10.72k	↑489.75	TQ	TRQA	LU	5/10/23	08:05:17	OD	PA,UA,P		
08:05:14	229	↑489.60	TQ	TRQX		5/10/23	08:05:14	AE	LB,CT,P		
08:05:04	238	↓489.30	TQ	TRQX		5/10/23	08:05:04	AE	LB,CT,P		
08:04:57	273	489.40	TQ	TRQM	DD	5/10/23	08:04:57	DT	DB,CT,D,P		
08:04:47	258	↑489.40	TQ	TRQX		5/10/23	08:04:47	AE	LB,CT,P		
08:04:46	499	489.35	TQ	TRQX		5/10/23	08:04:46	AE	LE		
08:04:46	274	489.35	TQ	TRQX		5/10/23	08:04:46	AE	LE		
08:04:46	224	↑489.35	TQ	TRQX		5/10/23	08:04:46	AE	LE		
08:04:20	374	488.65	TQ	TRQX		5/10/23	08:04:20	AE	LB,CT,P		
08:04:20	240	↑488.65	TQ	TRQX		5/10/23	08:04:20	AE	LB,CT,P		
08:04:16	174	488.35	TQ	TRQM	DD	5/10/23	08:04:16	DT	DB,CT,D,P		
08:04:16	235	↑488.40	TQ	TRQX		5/10/23	08:04:16	AE	LB,CT,P		
08:04:14	234	488.30	TQ	TRQX		5/10/23	08:04:14	AE	LB,CT,P		
08:04:14	1.82k	488.25	TQ	TRQM	DD	5/10/23	08:04:14	DT	DB,CT,D,P		
08:04:14	387	488.30	TQ	TRQX		5/10/23	08:04:14	AE	LB,CT,P		
08:04:11	229	488.30	TQ	TRQX		5/10/23	08:04:11	AE	LB,CT,P		
08:04:11	93	↑488.30	TQ	TRQX		5/10/23	08:04:11	AE	LB,CT,P		
08:04:10	374	488.15	TQ	TRQX		5/10/23	08:04:10	AE	LB,CT,P		
08:04:10	417	↓488.15	TQ	TRQX		5/10/23	08:04:10	AE	LB,CT,P		

Currency GBP

Source: Bloomberg

ION Fidessa

Time and Sales [ERIC-B.ST]

Instrument	ReceivedTime	TrdTm	Size	Price	Tt	VWAP	Flo	VWVol	Bid	Ask	MMT Codes
ERIC-B.ST	02 Mar 12:59	12:59:41	507	57.89	AT	57.628		2.7056m	57.89	57.91	LB,CT,P
ERIC-B.ST	02 Mar 12:59	12:59:29	224	57.9	AT	57.628		2.7051m	57.88	57.9	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:59	12:59:10	250	57.89	MT				57.88	57.9	DB,CT,D,RFPT,P,ALGO
ERIC-B.ST	02 Mar 12:59	12:59:00	366	57.89	AD				57.89	57.9	PA,UA,P,ALGO
ERIC-B.ST	02 Mar 12:59	12:59:00	1,645	57.89	AT	57.628		2.7049m	57.89	57.9	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:59	12:59:00	570	57.89	AT	57.628		2.7032m	57.89	57.9	LB,CT,P
ERIC-B.ST	02 Mar 12:58	12:58:53	44	57.9	AT	57.628		2.7026m	57.9	57.91	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:58	12:58:53	486	57.9	AT	57.628		2.7026m	57.9	57.91	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:57	12:57:58	519	57.9	AT	57.628		2.7021m	57.9	57.92	LB,CT,P
ERIC-B.ST	02 Mar 12:57	12:57:49	1,651	57.9	AT	57.628		2.7016m	57.89	57.9	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:57	12:57:42	172	57.895	MT				57.89	57.9	DB,CT,D,RFPT,P,ALGO
ERIC-B.ST	02 Mar 12:57	12:57:21	337	57.89	AT	57.627		2.6999m	57.89	57.9	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:57	12:57:12	32	57.89	AT	57.627		2.6996m	57.88	57.89	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:56	12:56:50	472	57.88	AD				57.87	57.89	PA,UA,P,ALGO
ERIC-B.ST	02 Mar 12:56	12:56:32	72	57.89	AT	57.627		2.6995m	57.88	57.9	LB,CT,P,ALGO
ERIC-B.ST	02 Mar 12:55	12:55:41	555	57.86	AT	57.627		2.6995m	57.86	57.87	LB,CT,P,ALGO

Instrument Portfolio Custom

 Price
 Volume

 Min: Max:
 Min: Max:

 Filter:

Start: Today
 End: Today+1

Source: ION Fidessa

SIX Financial Information – Market Data Feed (MDF)

BOURSE_CODE	ISIN	VALOREN	ISSUER	TPCURRE	REPTTPRI	REPTTRADE	REPTBATE	TRTIME	REPTTIMEMICROSEC	REPTTRADEMMT
SWX	US0231351067	645156	AMAZON.COM RG	CHF	1430	1430	TRA	9:04:21	908154	20-----P---
SWX	FI0009000681	472672	NOKIA RG	CHF	5.562	5.562	TRA	9:02:57	251950	20-----P---
SWX	LU0838782315	20028815	XTR DAX IN U 1D	CHF	126.08	126.08	TRA	9:55:20	248608	22-----PH---
SWX	CH0200252812	20025281	1.125 AUSNET 19	CHF	101.69	101.69	TRA	9:33:29	877116	22-----PH---
SWX	CH0197841551	19784155	4 EDP FINANCE 18	CHF	103.15	103.15	TRA	10:18:58	392087	22-----PH---
SWX	CH0194958986	19495898	1.375 SVENSKA 22	CHF	106.25	106.25	TRA	10:22:02	463622	22-----PH---
SWX	CH0194836364	19483636	SCOR OPEN	CHF	101.35	101.35	TRA	9:36:20	945431	22-----PH---
SWX	CH0194695190	19469519	SWISS LIFE -S FRN	CHF	102.4	102.4	TRA	10:08:56	771250	22-----PH---
SWX	IE00B88DZ566	19328353	ISHS S&P 500 CHF-AC	CHF	48.62	48.62	TRA	9:37:24	514382	22-----PH---
SWX	IE00B88BVCK12	19328350	ISHS WORLD CHF-ACC	CHF	44.79	44.79	TRA	9:11:13	921785	22-----PH---
SWX	LU0641007421	19204552	XTR2 GI-LBD 4DHD	CHF	107.32	107.32	TRA	10:40:23	55060	22-----PH---
SWX	CH0187695553	18769555	2 LGT BANK 19	CHF	103.39	103.39	TRA	9:52:49	457909	22-----PH---
SWX	IE00B3X0XRP09	18575508	VAN S&P 500 ETF USD	CHF	49.355	49.355	TRA	9:48:35	365637	22-----PH---
SWX	CH0184305016	18430501	SBIDSPF1-5-CHF ADIS	CHF	26.73	26.73	TRA	10:00:20	298157	22-----PH---
SWX	IE00B6TLBW47	18425202	ISHS JPM EM BD USD	CHF	94.36	94.36	TRA	9:39:21	462216	22-----PH---
SWX	CH0183136057	18313605	ZKBPLATETF -AA CHF-	CHF	281.45	281.45	TRA	10:54:39	743508	22-----PH---
SWX	CH0183136024	18313602	ZKBSILVERETF-AAHCHF	CHF	40.445	40.445	TRA	10:40:29	720312	22-----PH---
SWX	IE00B7452L46	14969108	SPDR UK ALL GBP-ACC	CHF	63.44	63.44	TRA	10:47:33	575424	22-----PH---
SWX	CH0146698425	14669842	1.25 EIB 19	CHF	102.95	102.95	TRA	10:28:41	158033	22-----PH---
SWX	IE00B6R52036	13937387	ISHS GLD PRD USD-AC	CHF	8.486	8.486	TRA	10:48:13	323796	22-----PH---
SWX	CH0139101601	13910160	ZKB GOLDETF-AAH CHF	CHF	368.3	368.3	TRA	10:46:50	77625	22-----PH---
SWX	CH0139101593	13910159	ZKB GOLD ETF-AA CHF	CHF	380.2	380.2	TRA	10:25:30	82817	22-----PH---
SWX	IE00B4613386	12931546	SSGA SPDR BL BD USD	CHF	72.43	72.43	TRA	10:47:30	464005	22-----PH---
SWX	NL0009739416	12871311	POSTNL BR	CHF	3.767	3.767	TRA	9:02:57	243776	22-----PH---
SWX	CH0122526608	12252660	2.625 ENAG 23	CHF	104	104	TRA	9:44:35	385007	22-----PH---
SWX	CH0120743346	12074334	2 HSBC SFH 19	CHF	102.91	102.91	TRA	9:30:52	92445	22-----PH---
SWX	CH0118923918	11892391	UBSETF SBID715CHFAD	CHF	146.94	146.94	TRA	9:45:22	474127	22-----PH---
SWX	CH0118923876	11892387	UBSETF SBID13CHF AD	CHF	82.9	82.9	TRA	9:58:55	656608	22-----PH---
SWX	DK0060252690	11784376	PANDORA RG	CHF	95.66	95.66	TRA	9:04:28	274810	22-----PH---
SWX	CH0116015352	11601535	CMCIOILSFCHADIS	CHF	27.285	27.285	TRA	10:10:51	951472	22-----PH---
SWX	CH0116014934	11601493	UBSETFPLTN-USD ADIS	CHF	89.23	89.23	TRA	9:45:37	142768	22-----PH---
SWX	FR0010869438	11202645	LY SMI D2I ETF A	CHF	9.428	9.428	TRA	10:29:51	218117	22-----PH---
SWX	FR0010871145	11145933	AM SWITZ UC ETF CHF	CHF	288.85	288.85	TRA	9:12:56	22781	22-----PH---
SWX	LU0488317701	11058258	COMS NY A GOLD ID	CHF	16.25	16.25	TRA	9:56:22	323735	22-----PH---
SWX	LU0480132876	10920548	UBSETF MSCIEM USDAD	CHF	110.6	110.6	TRA	9:31:25	308734	22-----PH---
SWX	LU0411075376	10804968	XTR LEVDAX DS 1CC	CHF	133.2	133.2	TRA	9:36:36	608267	22-----PH---
SWX	IE00B4L5ZG21	10608422	ISH EUR CO EX-F EUR	CHF	134.08	134.08	TRA	9:28:15	554881	22-----PH---
SWX	CH0106027128	10602712	UBSETF GLD HCHF A D	CHF	116.56	116.56	TRA	9:54:10	909437	22-----PH---
SWX	CH0104136285	10413628	ISHSGOCHFHETFCH -A-	CHF	113.5	113.5	TRA	10:54:38	169723	22-----PH---
SWX	LU0392496690	4878674	COMS ATX ID	CHF	47.01	47.01	TRA	10:20:09	651976	22-----PH---
SWX	CH0048265513	4826551	TRANSOCEAN RG	CHF	9.05	9.05	TRA	9:34:39	782141	22-----PH---

Source: SIX Financial Information (visualisation of the Market Data Feed)

LSEG Refinitiv – Desktop

LSEG.L LONDON STOCK EXCHANGE GROUP PLC

United Kingdom | London Stock Exchange | Financial & Commodity Market Operators & Service Providers

Overview News & Research Price & Charts Estimates Financials ESG Event Ownership Debt & Credit Peers & Valuation Derivatives Filings

INSTRUMENTS 1/5 LSEG.L

Timestamp Venue Last Trade Volume MMT Trade Conditions

Timestamp	Venue	Last Trade	Volume	MMT Trade Conditions
14-Mar-2022 14:01:29.073	XLON	7,652.0000	13	LB, CT, P, ALGO
14-Mar-2022 14:01:29.073	XLON	7,652.0000	63	LB, CT, P, ALGO
14-Mar-2022 14:01:29.072	XLON	7,652.0000	21	LB, CT, P, ALGO
14-Mar-2022 14:01:29.072	XLON	7,650.0000	24	LB, CT, D, P, ALGO
14-Mar-2022 14:01:29.072	XLON	7,650.0000	20	LB, CT, P, ALGO
14-Mar-2022 14:01:29.072	XLON	7,650.0000	60	LB, CT, P, ALGO
14-Mar-2022 14:01:29.071	XLON	7,650.0000	26	LB, CT, D, P, ALGO
14-Mar-2022 14:01:29.071	XLON	7,650.0000	34	LB, CT, P, ALGO
14-Mar-2022 14:01:29.071	XLON	7,650.0000	37	LB, CT, P, ALGO
14-Mar-2022 14:01:29.071	XLON	7,650.0000	9	LB, CT, P, ALGO
14-Mar-2022 14:01:29.071	XLON	7,650.0000	34	LB, CT, D, P, ALGO
14-Mar-2022 14:01:29.070			46	LB, CT, P, ALGO
14-Mar-2022 14:01:29.070			34	LB, CT, P, ALGO
14-Mar-2022 14:01:05.837			47	LB, CT, P, ALGO
14-Mar-2022 14:01:05.837			11	LB, CT, P, ALGO
14-Mar-2022 14:01:05.836			8	LB, CT, D, P, ALGO
14-Mar-2022 14:01:05.836			80	LB, CT, P, ALGO
14-Mar-2022 14:01:04.876			14	LB, CT, D, P, ALGO
14-Mar-2022 14:01:04.876			80	LB, CT, P, ALGO
14-Mar-2022 14:00:58.011			1	LB, CT, P, ALGO
14-Mar-2022 14:00:55.034			4	LB, CT, P, ALGO
14-Mar-2022 14:00:50.261			21	LB, CT, P, ALGO
14-Mar-2022 14:00:32.867			21	LB, CT, P, ALGO
14-Mar-2022 14:00:25.567			10	LB, CT, P, ALGO
14-Mar-2022 14:00:24.980			21	LB, CT, P, ALGO

MMT Display Code in the time and sales (TAS) app, on Refinitiv Workspace Desktop. You can also view the MMT Efficient Code string within the desktop via the quote app.

Source: Refinitiv

Trade Flagging modifications driven by regulation



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 (RTS 1 and RTS 2)
- Combinations of ‘PRIC’, ‘CONT’, ‘PORT’ permitted
- Combination with ‘NPFT’ is excluded
- Amended “NPFT” definition (RTS 1 and RTS 2)
- ‘TNCP” flag to be deprecated (RTS 1)

→ Application date: Jan. 1st 2024

See ESMA70-156-4944

Trade Flagging modifications driven by regulation [FCA PS23/4](#)



Application Date on
April 29 2024

Amended FCA provisions for MMT v4.1

1) Deletion of SI related flags → 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 → 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 → 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 due to EU regulation in v4.0)

→ Application Date on April 29 2024

Amended FIX Recommended practices

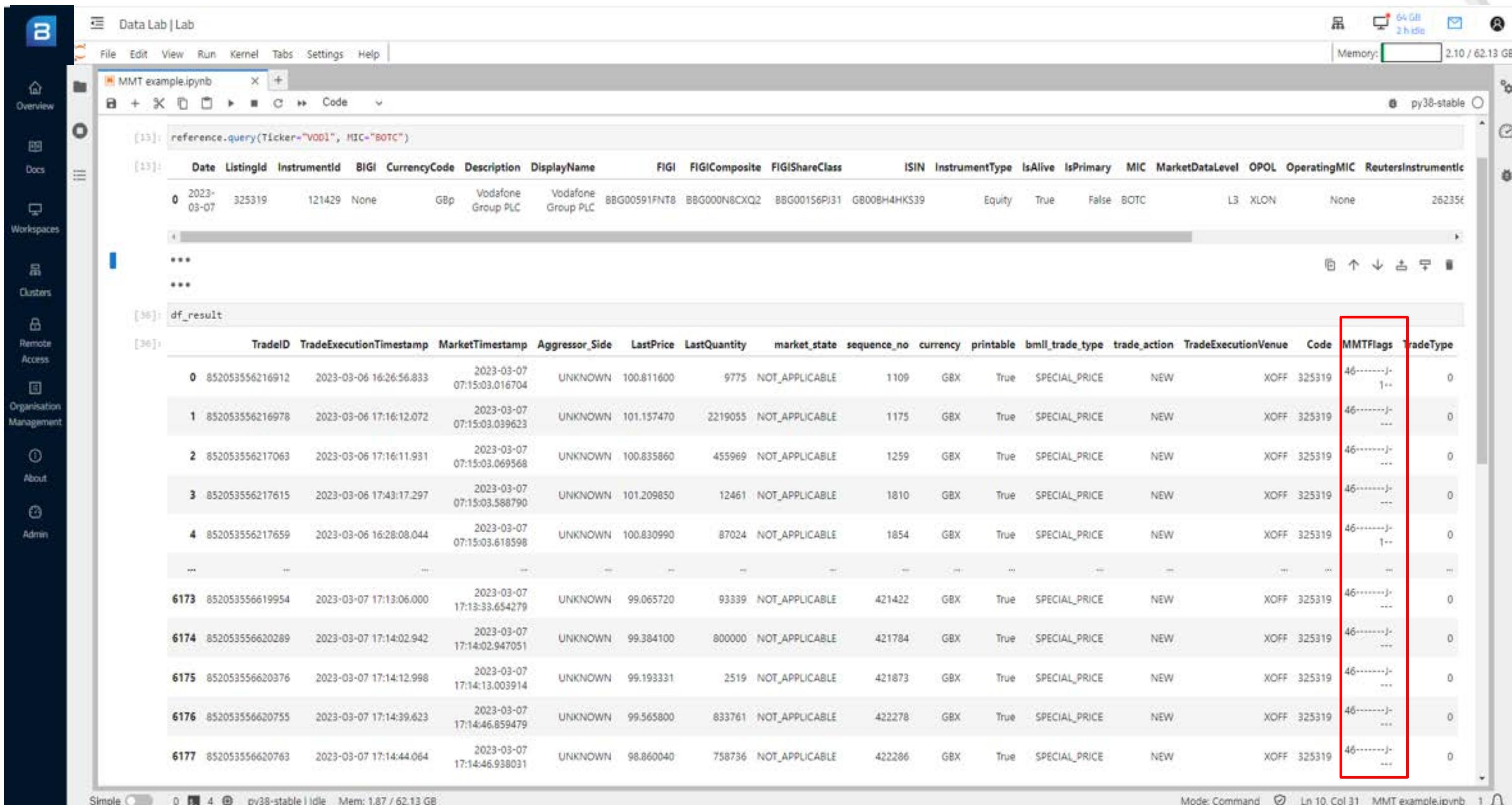
- ‘NTLS’, OTC Trade Larger than LIS brought onto a venue
- ‘IGRP’ new flag for Intra-Group transactions executed for administrative or position management purposes
- ‘GIVE’ new flag for RFMD give-ups transactions
- ‘XBDT’ new flag for trades reported more than once due to overlapping regulatory reporting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



Benefits of MMT for advanced
analytics purposes:

BMLL Use Cases

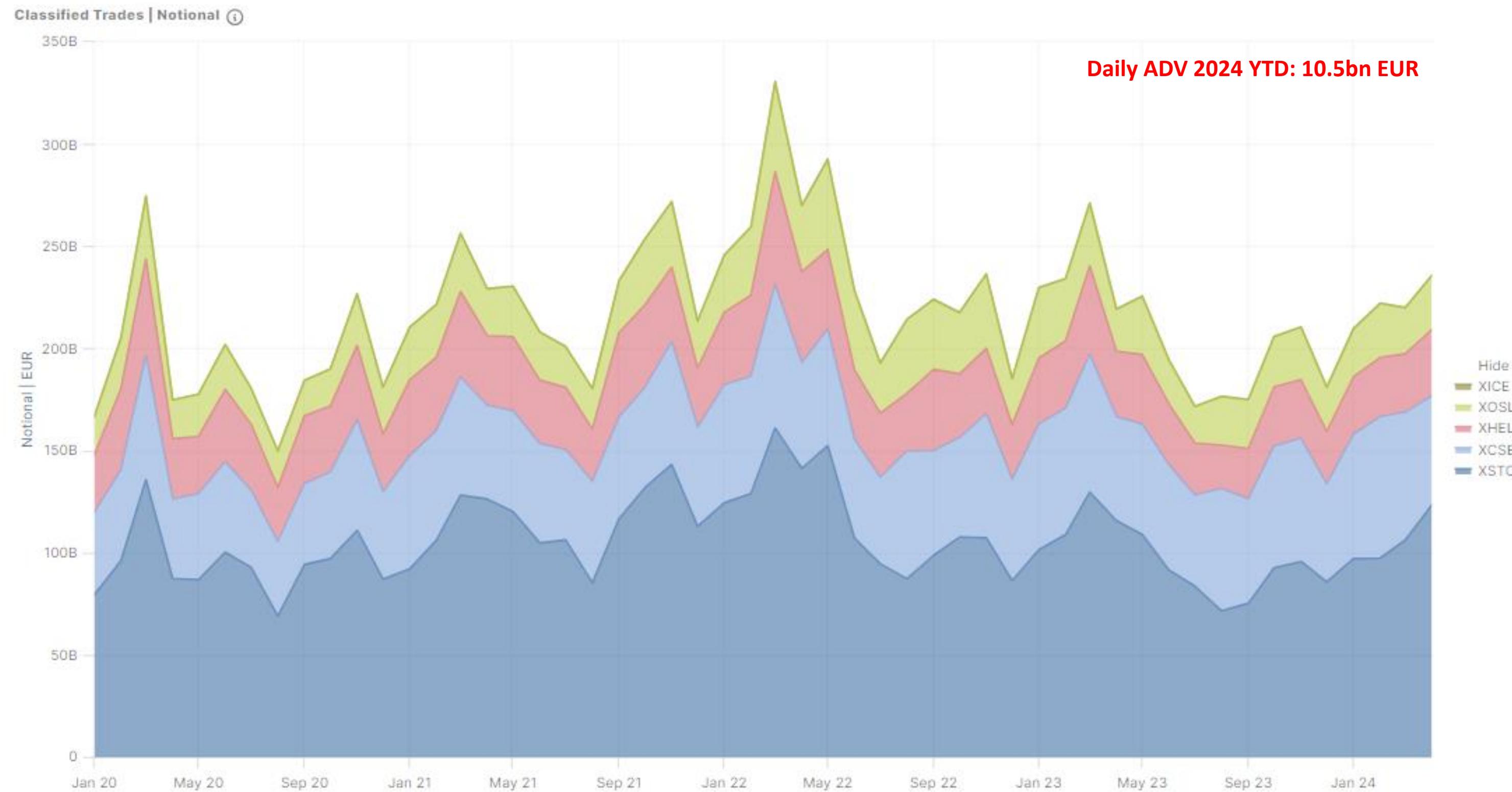
Using MMT: BMLL Example



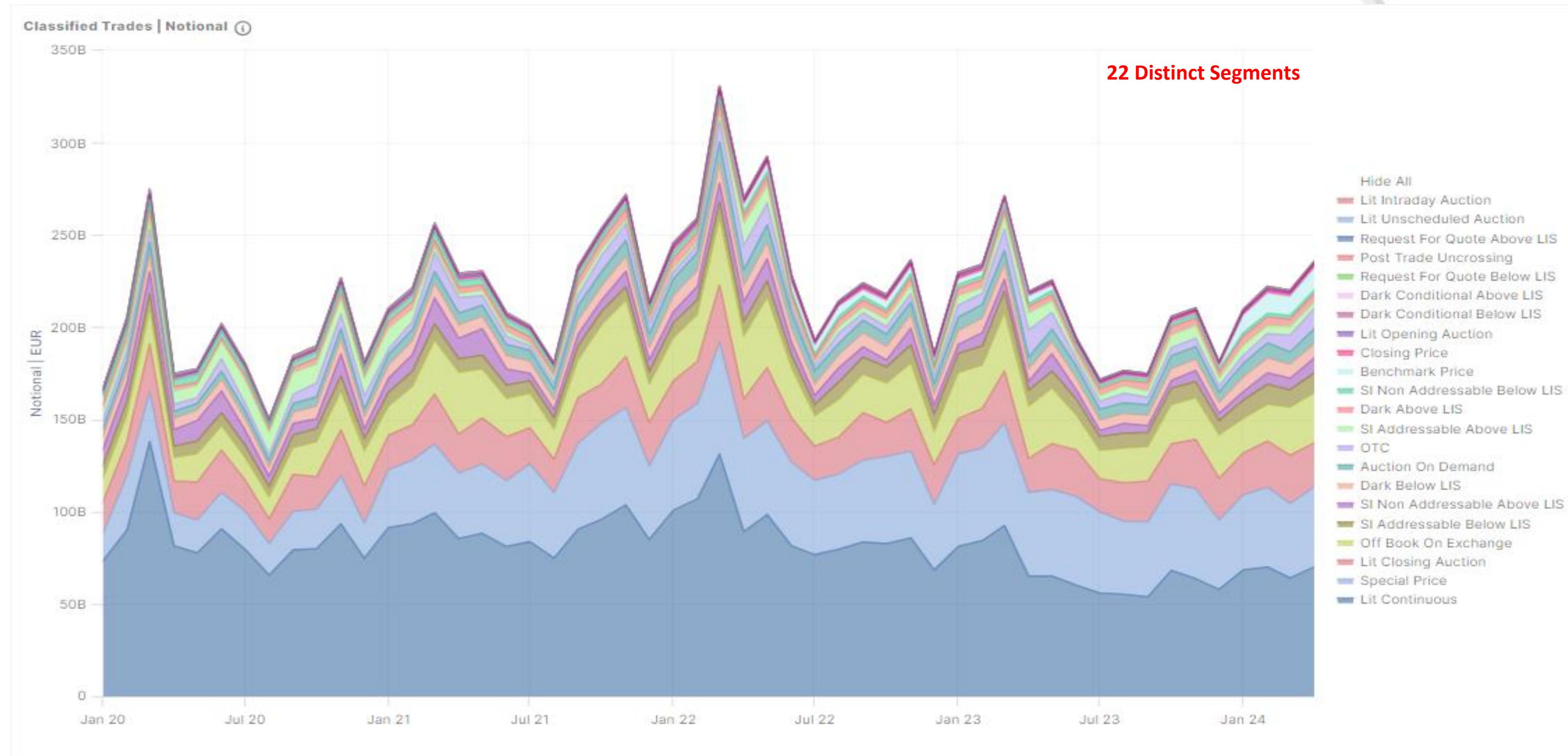
The screenshot shows a Jupyter Notebook interface within a Data Lab environment. The notebook is titled 'MMT example.ipynb'. The code cell [13] contains a query to 'reference.query' with parameters 'Ticker="VOD1", MIC="BOTC"'. The resulting DataFrame 'df_result' is displayed in a table format. The table has 13 columns: TradeID, TradeExecutionTimestamp, MarketTimestamp, Aggressor_Side, LastPrice, LastQuantity, market_state, sequence_no, currency, printable, bmll_trade_type, trade_action, TradeExecutionVenue, Code, MMTFlags, and TradeType. The 'MMTFlags' column for rows 6173 through 6177 is highlighted with a red box. The data shows various trade details for Vodafone Group PLC (VOD1) on the XEON exchange (BOTC) on March 7, 2023.

	TradeID	TradeExecutionTimestamp	MarketTimestamp	Aggressor_Side	LastPrice	LastQuantity	market_state	sequence_no	currency	printable	bmll_trade_type	trade_action	TradeExecutionVenue	Code	MMTFlags	TradeType
0	852053556216912	2023-03-06 16:26:56.833	2023-03-07 07:15:03.016704	UNKNOWN	100.811600	9775	NOT_APPLICABLE	1109	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j-1--	0
1	852053556216978	2023-03-06 17:16:12.072	2023-03-07 07:15:03.039623	UNKNOWN	101.157470	2219055	NOT_APPLICABLE	1175	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
2	852053556217063	2023-03-06 17:16:11.931	2023-03-07 07:15:03.069568	UNKNOWN	100.835860	455969	NOT_APPLICABLE	1259	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
3	852053556217615	2023-03-06 17:43:17.297	2023-03-07 07:15:03.588790	UNKNOWN	101.209850	12461	NOT_APPLICABLE	1810	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
4	852053556217659	2023-03-06 16:28:08.044	2023-03-07 07:15:03.618598	UNKNOWN	100.830990	87024	NOT_APPLICABLE	1854	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j-1--	0
...
6173	852053556619954	2023-03-07 17:13:06.000	2023-03-07 17:13:33.654279	UNKNOWN	99.065720	93339	NOT_APPLICABLE	421422	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
6174	852053556620289	2023-03-07 17:14:02.942	2023-03-07 17:14:02.947051	UNKNOWN	99.384100	800000	NOT_APPLICABLE	421784	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
6175	852053556620376	2023-03-07 17:14:12.998	2023-03-07 17:14:13.003914	UNKNOWN	99.193331	2519	NOT_APPLICABLE	421873	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
6176	852053556620755	2023-03-07 17:14:39.623	2023-03-07 17:14:46.859479	UNKNOWN	99.565800	833761	NOT_APPLICABLE	422278	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0
6177	852053556620763	2023-03-07 17:14:44.064	2023-03-07 17:14:46.938031	UNKNOWN	98.860040	758756	NOT_APPLICABLE	422286	GBX	True	SPECIAL_PRICE	NEW	XOFF	325319	46-----j----	0

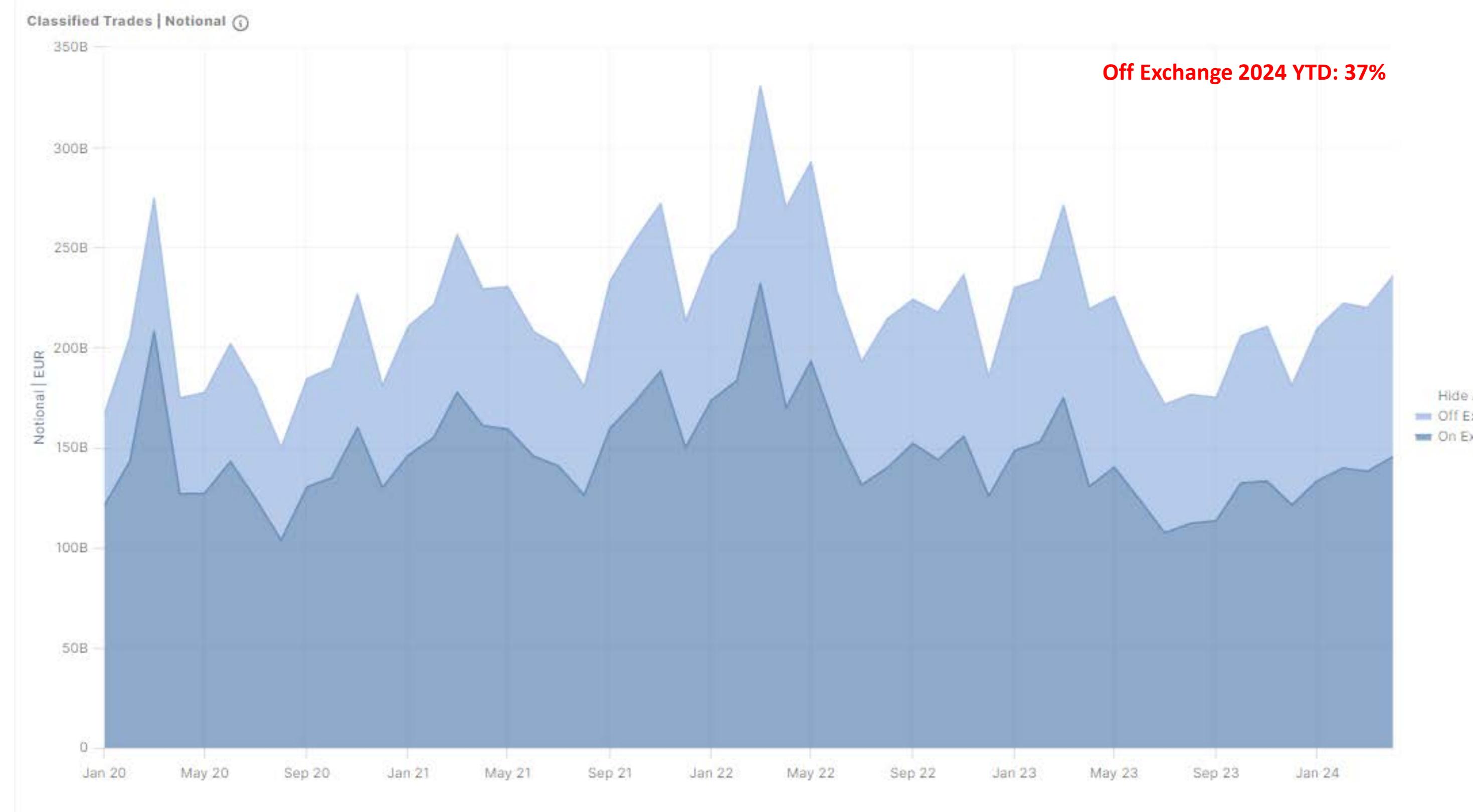
Using MMT for Analytics: Nordic Region



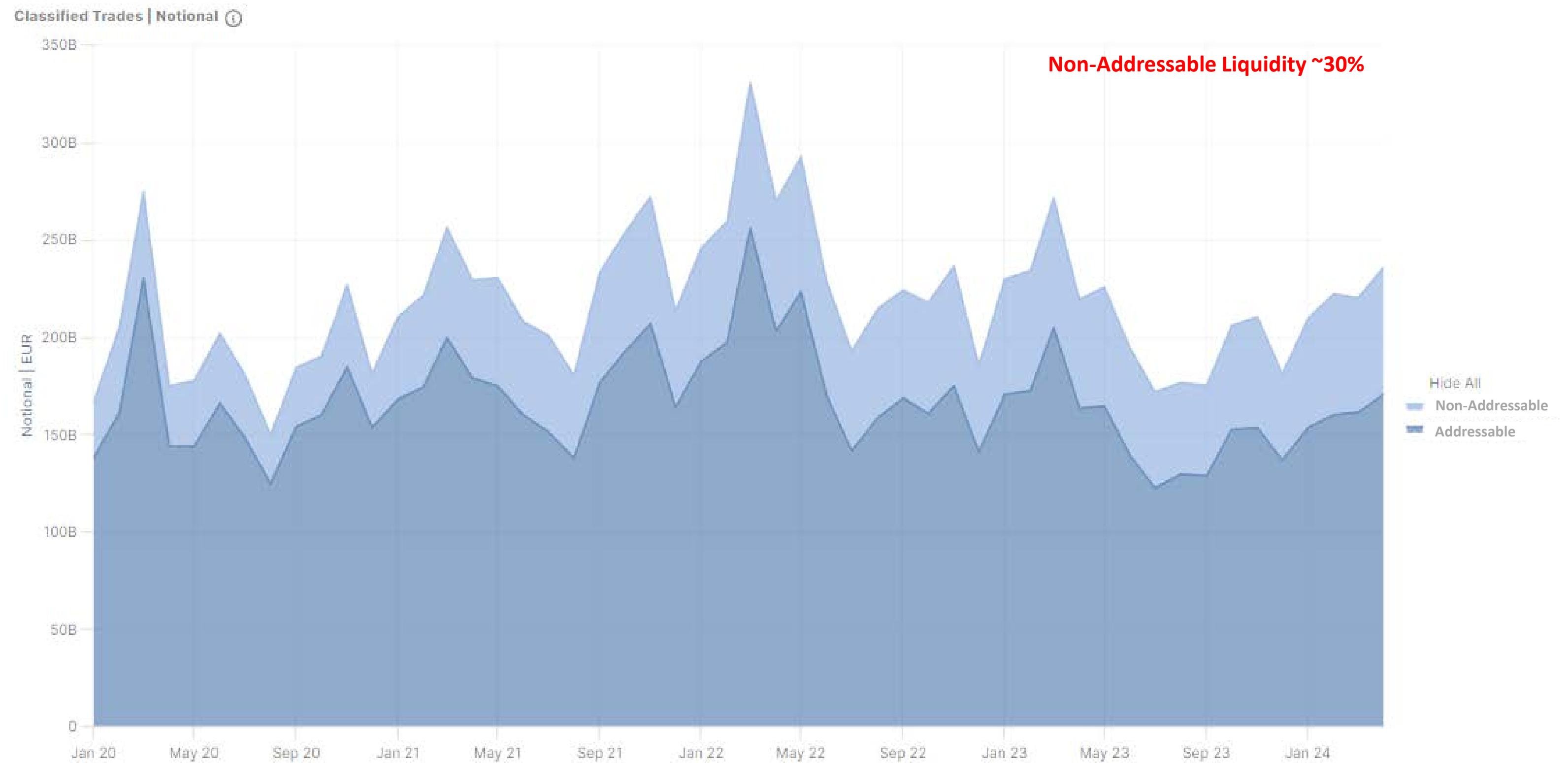
Using MMT for Analytics: Nordic Classified Trades



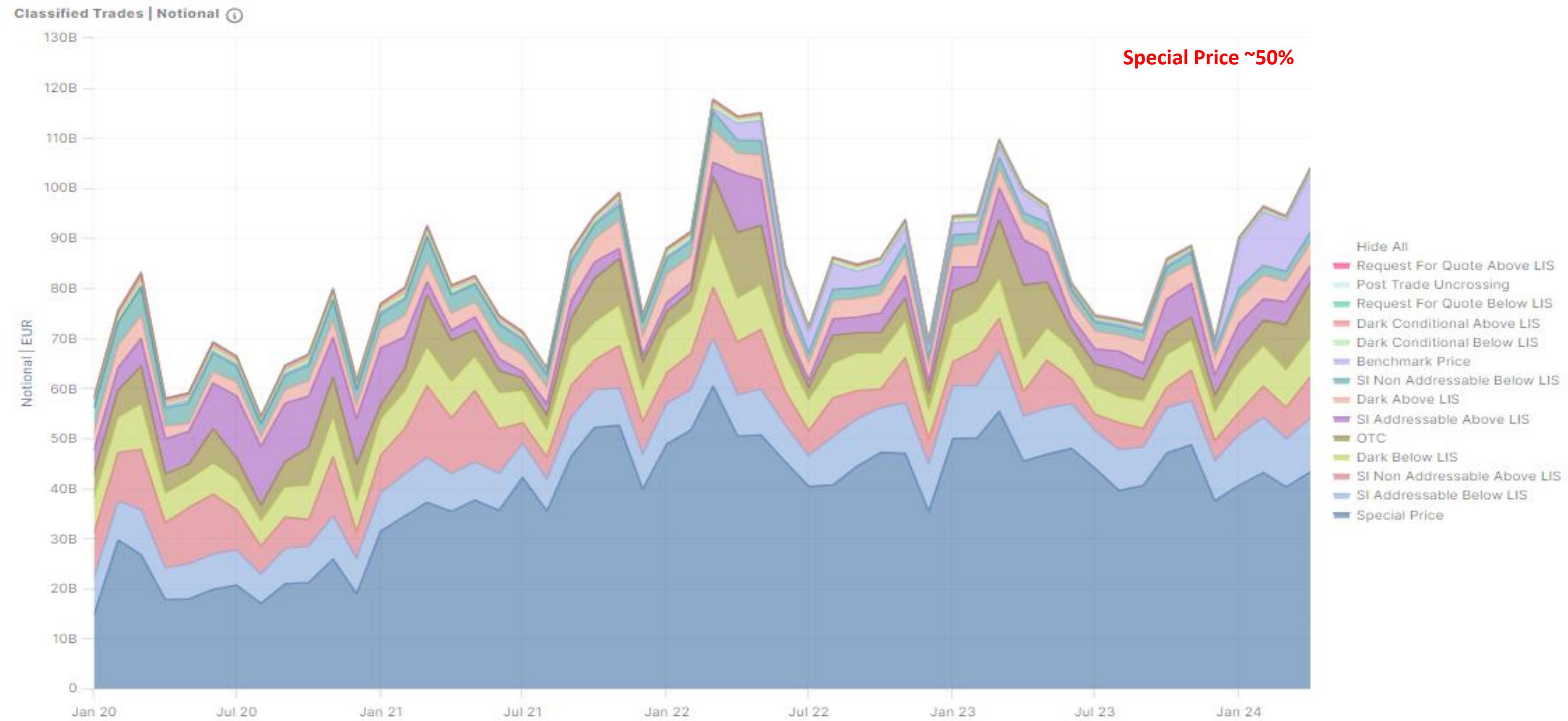
Using MMT for Analytics: On Exchange vs Off Exchange



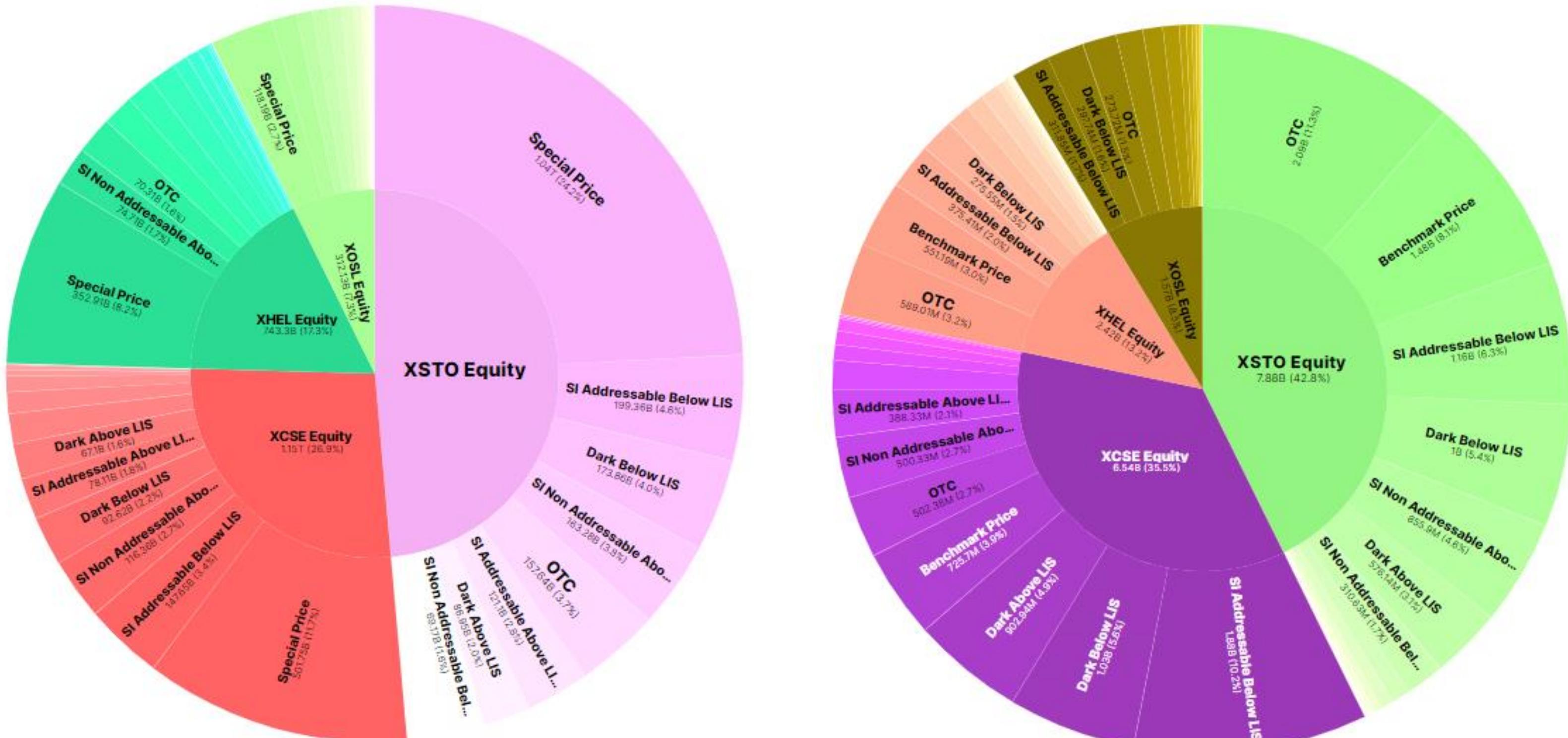
Using MMT for analytics: Addressable Liquidity



Using MMT for analytics: Trade Transparency (Dark, SI, OTC)



Classifying trades without MMT: Before & After 29/04



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. [Have a look!](#)
- 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:

fix@fixtrading.org

Questions?

