

Information handbook for audit trail, transaction and other regulatory reporting under the MiFID II/ MiFIR regime

Frankfurt Stock Exchange and Eurex

Abstract

This document outlines the new reporting requirements under MiFID II / MiFIR, respective technical changes, and field description. This handbook shall serve as guidance for trading participants in order to fulfil their reporting obligation. Furthermore, other MiFID II / MiFIR affected reports are also included.

Document History

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3.0	03/05/2021	Report TR166 for Eurex p. 36
3.1	12/07/2021	Update chapter 3.2 – TVTIC Eurex
3.2	14/07/2021	Update 2.3.1. non-CCP instruments FSE, 2.4.4 Transaction reporting requirements for non-MiFIR firms according to the Regulation EU No 600/2014 article 26(5), new chapters 3.3.3.2. and chapter 4.3.2. common upload engine (CUE)
3.3	25/11/2021	Short code update (decree of the Exchange Supervisory Authority of the State of Hesse) and CUE pre-validation tool, restructuring of chapter 3.3 and 4

Table of Contents

1	Introduction	5
2	Transaction Reporting	6
2.1	Regulatory requirements	6
2.2	Transaction report fields	6
2.3	Additional information	16
2.3.1	Frankfurt Stock Exchange non-CCP transactions	16
2.3.2	Cancellation of transactions (Eurex and FSE)	17
2.4	Transaction reporting requirements for non-MiFIR firms according to the Regulation EU No 600/2014 article 26(5)	17
2.4.1	Transaction Reporting Requirements	17
2.4.2	Transaction Reporting Scope	17
2.4.3	Required fields to be added by participants	18
2.4.4	Technical set-up	18
2.4.5	Reporting solution processing	19
2.4.6	Important information for the go-live of the new reporting solution in November 2021	19
2.4.7	Support contacts	19
2.4.8	Reporting choices for non-MiFIR member	20
3	Audit Trail Reporting	21
3.1	Regulatory requirements	21
3.2	Extract: Audit trail fields	21
3.3	Short Code Solution	26
3.3.1	Technical fields in the trading system T7	26
3.3.2	Short code fields and attributes	27
3.3.2.1	ClientID	29
3.3.2.2	Execution ID	30
3.3.2.3	Investment ID	31
3.3.3	Data requirements of short / long code combinations	31
3.3.3.1	Uniqueness and consistency	31
3.3.3.2	Exemption	32
3.3.3.3	Modification	32
3.3.3.4	Deletion	32
3.3.3.5	Correction	33
3.3.4	Registration of short / long codes	34
3.3.4.1	Upload file naming convention	34
3.3.4.1.1	Member section upload functionality	34
3.3.4.1.2	Common Upload Engine (CUE) upload functionality	35
3.3.4.2	Upload file structure and format	35
3.3.4.3	Field description	36
3.3.4.4	Validations	38
3.3.4.4.1	CUE validations	38
3.3.4.4.2	Member section validations	38
3.3.4.4.3	Validations in the data warehouse	40
3.3.4.5	Reports	43
3.3.4.5.1	TR160 short code error report	43
3.3.4.5.2	TR161 short code overview report	44
3.3.4.5.3	TR166 short code final error report	44

3.3.5	Short code management	45
3.3.6	Monitoring and sanctioning	46
3.3.6.1	Missing short/long code registration	46
3.3.6.2	Uniqueness violation	47
3.3.7	Special: New upload functionality common upload engine (CUE)	47
4	Algo IDs	50
4.1	Regulatory requirement for identification	50
4.2	Regulatory requirement for certification and testing	50
4.2.1	Technical fields in the trading system T7	50
4.2.2	AlgoID fields and attributes	51
4.2.2.1	Execution ID	52
4.2.2.2	Investment ID	53
4.2.3	Data requirements of algoIDs	53
4.2.3.1	Uniqueness and consistency	53
4.2.3.2	Exemption	53
4.2.3.3	Modification	53
4.2.3.4	Deletion	54
4.2.4	Registration of algoIDs	54
4.2.4.1	Upload file naming convention	54
4.2.4.1.1	Member section upload functionality	54
4.2.4.1.2	Common Upload Engine (CUE) upload functionality	55
4.2.4.2	Upload file structure and format	55
4.2.4.3	Field description	56
4.2.4.4	Validations	56
4.2.4.4.1	CUE validations	56
4.2.4.4.2	Member section validations	56
4.2.4.4.3	Validations in the data warehouse	58
4.2.4.5	Reports	59
4.2.4.5.1	TR162 algo error report	59
4.2.4.5.2	TR163 algo overview report	60
4.2.5	AlgoID management	60
4.2.6	Monitoring and sanctioning	60
4.2.7	Special: New upload functionality common upload engine (CUE)	60
5	Direct Market Access	64
5.1	Eurex solution	64
5.2	FSE solution	64
5.2.1	Registration	64
5.2.2	Technical submission	64
5.2.3	DMA flagging	65
6	Other MiFID II / MiFIR affected reports	66
6.1	Order-to-Trade Ratio (OTR) report	66
6.2	Message Rate report	66
7	Excursus: Participant reference data	67
7.1	Legal Entity identification codes of Participants	67
7.2	National ID of traders of Participants	67
8	Enclosure	86

1 Introduction

With MiFID II/MiFIR, applicable since January 3rd 2018, trading participants and trading venues shall meet certain reporting requirements. The Art 26 (5), (9) of Reg. 600/2017 and Art. 25(3) of Reg. 600/2017 and MAR Art. 4 and MiFIR Art. 27 are serving as regulatory basis. This handbook shall help the Frankfurt Stock Exchange (FSE) and Eurex trading participants to fulfill the reporting requirements.

Chapter 2 contains the reporting obligations of transaction reporting according to Regulation EU No 600/2014. Chapter 3 encompasses the reporting content of the audit trail and the short code solution. Chapter 4 gives the trading participants the information about the identification of algorithms, their testing and certification. Chapter 5 provides an overview about the venue's DMA offerings. Chapter 6 provides information about other MiFID II / MiFIR affected reports. Chapter 7 contains an excursus about participant reference data and chapter 8 contains the enclosure.

2 Transaction Reporting

2.1 Regulatory requirements

With regard to Regulation (EU) No. 600/2014 and in particular the reporting obligation under Article 26 of MiFIR; ESMA developed the regulatory technical standard 22 to specify:

1. the references of the financial instruments bought or sold,
2. the quantity,
3. the dates and times of execution,
4. the transaction prices,
5. the information and details of the client identity, a designation to identify the clients on whose behalf the investment firm has executed that transaction,
6. a designation to identify the persons and the computer algorithms within the investment firm responsible for the investment decision and the execution of the transaction,
7. a designation to identify the applicable waiver under which the trade has taken place,
8. the means of identifying the investment firms concerned,
9. the way in which the transaction was executed,
10. data fields necessary for the processing and analysis of the transaction reports in accordance with paragraph 3

2.2 Transaction report fields

The chapter describes the parameter and value population for the transaction reporting. It shall help the trading participants under the MiFIR regime (MiFIR firms) to find the right data source or the logic to fulfill their reporting obligation.

In cases where the trading venue is obligated to report for trading participants not subject to MiFIR regime (non-MiFIR firms), the trading venue takes over the obligation to populate and report the transaction records to the national competent authority. In most cases the data is available to the trading venue, but in some cases non-MiFIR firms must report the missing details (e.g. Buyer/ Seller details) to the trading venue. These cases are highlighted in chapter 2.4.

Field 1: Report Status

Content: Indication as to whether the transaction report is new or a cancellation.

Format and Standard: NEWT – New; CANC – Cancellation

Data source: This value must be provided by the member. For more information, please see the Guidelines for Transaction reporting, order record keeping and clock synchronization under MiFID II, 10 October 2016, ESMA/2016/1452 (guidelines), corrected on 07/08/2017.

Field 2: Transaction Reference Number

Content: Identification number that is unique to the executing firm for each transaction report. Where, pursuant to Article 26(5) of Regulation (EU) No 600/2014, a trading venue submits a transaction report on behalf of a firm that is not subject to Regulation (EU) No 600/2014, the trading venue shall populate this field with a number that has been internally generated by the trading venue and that is unique for each transaction report submitted by the trading venue.

Format and Standard: {Alphanumerical-52}

Data source: The number logic is given by the member.

Field 3: Trading Venue transaction identification code

Content: This is a number generated by trading venues and disseminated to both the buying and the selling parties in accordance with Article 12 of Commission Delegated Regulation (EU) 2017/580(1).

This field is only required for the market side of a transaction executed on a trading venue.

Format and Standard: {Alphanumerical-52}

Data source: CEF Core (TVTIC), TE810, TC810 and in the T7 trade notifications. For more information please see chapter 3.2.

Field 4: Executing entity identification code

Content: Code used to identify the entity executing the transaction.

Format and Standard: {LEI}

Data source: LEI of executing entity (own member LEI).

Field 5: Investment firm

Content: Indicates whether the entity identified in field 4 is an investment firm covered by Article 4(1) of Directive 2014/65/EU.

Format and Standard: true; false

Data source: Filled by the member: “true” in case the executing entity is regulated as investment firm under MiFID, “false” otherwise.

Field 6: Submitting entity identification code

Content: Code used to identify the entity submitting the transaction report to the competent authority in accordance with Article 26(7) of Regulation (EU) No 600/2014.

Where the report is submitted by the executing firm directly to the competent authority, it shall be populated with the LEI of the executing firm (where the executing firm is a legal entity). Where the report is submitted by a trading venue, it shall be populated with the LEI of the operator of the trading venue.

Where the report is submitted by an ARM, it shall be populated with the LEI of the ARM.

Format and Standard: {LEI}

Data source: Filled by the member according to the scenarios described above.

Field 7: Buyer identification code

Content: Code used to identify the acquirer of the financial instrument.

Where the acquirer is a legal entity, the LEI code of the acquirer shall be used.

Where the acquirer is a non-legal entity, the identifier specified in Article 6 shall be used.

Where the transaction was executed on a trading venue or on an organised trading platform outside of the Union that utilises a central counterparty (CCP) and where the identity of the acquirer is not disclosed, the LEI code of the CCP shall be used.

Where the transaction was executed on a trading venue or on an organised trading platform outside of the Union that does not utilise a CCP and where the identity of the acquirer is not disclosed, the MIC code of the trading venue or of the organised trading platform outside of the Union shall be used.

Where the acquirer is an investment firm acting as a systematic internaliser (SI), the LEI code of the SI shall be used.

'INTC' shall be used to designate an aggregate client account within the investment firm in order to report a transfer into or out of that account with an associated allocation to the individual client(s) out of or into that account respectively. In case of options and swaptions, the buyer shall be the counterparty that holds the right to exercise the option and the seller shall be the counterparty that sells the option and receives a premium. In case of futures and forwards other than futures and forwards relating to currencies, the buyer shall be the counterparty buying the instrument and the seller the counterparty selling the instrument.

In the case of swaps relating to securities, the buyer shall be the counterparty that gets the risk of price movement of the underlying security and receives the security amount. The seller shall be the counterparty paying the security amount.

In the case of swaps related to interest rates or inflation indices, the buyer shall be the counterparty paying the fixed rate. The seller shall be the counterparty receiving the fixed rate. In case of basis swaps (float-to-float interest rate swaps), the buyer shall be the counterparty that pays the spread and the seller the counterparty that receives the spread.

In the case of swaps and forwards related to currencies and of cross currency swaps, the buyer shall be the counterparty receiving the currency which is first when sorted alphabetically by ISO 4217 standard and the seller shall be the counterparty delivering this currency.

In the case of swap related to dividends, the buyer shall be the counterparty receiving the equivalent actual dividend payments. The seller is the counterparty paying the dividend and receiving the fixed rate.

In the case of derivative instruments for the transfer of credit risk except options and swaptions, the buyer shall be the counterparty buying the protection. The seller is the counterparty selling the protection.

In case of derivative contract related to commodities, the buyer shall be the counterparty that receives the commodity specified in the report and the seller the counterparty delivering this commodity.

In case of forward rate agreements, the buyer shall be the counterparty paying the fixed rate and the seller the counterparty receiving the fixed rate.

For an increase in notional, the buyer shall be the same as the acquirer of the financial instrument in the original transaction and the seller shall be the same as the disposer of the financial instrument in the original transaction.

For a decrease in notional the buyer shall be the same as the disposer of the financial instrument in the original transaction and the seller shall be the same as the acquirer of the financial instrument in the original transaction.

Format and Standard: {LEI}; {MIC}; {NATIONAL_ID}; 'INT'

Data source:

If P-, M- or I-account, member LEI shall be used. If A-/R-account, use long code of client ID (see chapter 3.3). In case of AGGR, fill with INTC and fill the missing client records. In case of PNAL, fill the missing client ID. For more details see the Guidelines for Transaction reporting, order record keeping and clock synchronization under MiFID II, 10 October 2016, ESMA/2016/1452 (guidelines). The short code is provided in TE540, TE545, TC540, TC550. The long code used by member shall match with the short code / long code solution provided to the trading venues see chapter 3.3.

Furthermore, the trading venues provide daily reports TR161 with the actual short code/ long code overview and report TR160 with the errors.

Field 8 – 15 (buyer details)

Content: For the buyer identification members will need to provide additional information that cannot be provided via T7. This information can be grouped into the following categories:

- Field 8 – 15 are only applicable if the buyer is a client
- Field 9 – 11 are only applicable if the buyer is a natural person
- Field 13 – 15 are only applicable if the decision maker is a natural person

Field 16 – 24 (seller details)

- The same logic as for buyer details.

Data source: The buyer and seller field details are filled by the member.

Non-MiFIR members are requested to provide the missing information to the trading venue. For details, please refer to chapter 2.4.

Field 25: Transmission of order indicator

Content: 'true' shall be populated by the transmitting firm within the transmitting firm's report where the conditions for transmission specified in Article 4 were not satisfied
'false' – in all other circumstances

Format and Standard: true; false

Data source: value is provided by the member.

Field 26: Transmitting firm identification code for the buyer

Content: Code used to identify the firm transmitting the order. This shall be populated by the receiving firm within the receiving firm's report with the identification code provided by the transmitting firm.

Format and Standard: {LEI}

Data source: value is provided by the member.

Field 27: Transmitting identification code for the seller

Content: Code used to identify the firm transmitting the order. This shall be populated by the receiving firm within the receiving firm's report with the identification code provided by the transmitting firm

Format and Standard: {LEI}

Data source: value is provided by the member.

Field 28: Trading date time

Content: Date and time when the transaction was executed.

For transactions executed on a trading venue, the level of granularity shall be in accordance with the requirements set out in Article of Commission Delegated Regulation (EU) 2017/574(2).

For transactions not executed on a trading venue, the date and time shall be when the parties agree the content of the following fields: quantity, price, currencies in fields 31, 34 and 44, instrument identification code, instrument classification and underlying instrument code, where applicable. For transactions not executed on a trading venue the time reported shall be at least to the nearest second.

Where the transaction results from an order transmitted by the executing firm on behalf of a client to a third party where the conditions for transmission set out in Article 4 were not satisfied, this shall be the date and time of the transaction rather than the time of the order transmission.

Format and Standard: {DATE_TIME_FORMAT}

Data source: Reporting time in TC810, TE810 - reporting date is a part of the file name (TC810 or TE810) 'rptPrntEffDat' reported in the corresponding marketplace time zone.

Additionally, the trading date time can be found in CEF Core; T7 ETI (Trade Notification); T7 Fix Gateway (Trade Capture Report) – reported in UTC time.

Field 29: Trading capacity

Content: Indication of whether the transaction results from the executing firm carrying out matched principal trading under Article 4(1)(38) of Directive 2014/65/EU or dealing on own account under Article 4(1)(6) of Directive 2014/65/EU.

Where the transaction does not result from the executing firm carrying out matched principal trading or dealing on own account, the field shall indicate that the transaction was carried out under any other capacity.

Format and Standard: DEAL – dealing on own account; MTCH – matched principal, AOTC – any other capacity

Data source: For the purpose of the audit trail reporting according to Commission Delegated Regulation (EU) 2017/580 (see chapter 3) the trading capacity is classified as follows:

- If order is sent via P-, I- or M-account: 'DEAL'
- If order is sent via A-account: 'AOTC'
- If order is sent via R-account (Xetra only): 'MTCH'

Members might deviate from this classification in their transaction reporting, in case the exchange transaction was executed in the context of off-exchange transactions. For examples please see Guidelines for Transaction reporting, order record keeping and clock synchronization under MiFID II, 10 October 2016, ESMA/2016/1452 (guidelines), corrected on 07/08/2017.

Field 30: Quantity

Content: The number of units of the financial instrument, or the number of derivative contracts in the transaction.

The nominal or monetary value of the financial instrument.

For spread bets, the quantity shall be the monetary value wagered per point movement in the underlying financial instrument.

For credit default swaps, the quantity shall be the notional amount for which the protection is acquired or disposed of.

For increase or decrease in notional amount derivative contracts, the number shall reflect the absolute value of the change and shall be expressed as a positive number.

The information reported in this field shall be consistent with the values provided in fields 33 and 46.

Format and Standard: {DECIMAL-18/17} in case the quantity is expressed as number of units; {DECIMAL – 18/5} in case the quantity is expressed as monetary or nominal value

Data source: TE810, TC810, T7 ETI (Trade Notification), T7 Fix Gateway (Trade Capture Report), CEF Core

Field 31: Quantity Currency

Content: Currency in which the quantity is expressed. Only applicable if quantity is expressed as nominal or monetary value.

Format and Standard: {CURRENCYCODE_3}

Data source: TE 810, TC 810, CEF Core

Eurex: RDI/RDF, Tag 15 (Currency). In Eurex settlement currency = trading currency

Field 32: Derivative notional increase/ decrease

Content: Indication as to whether the transaction is an increase or decrease of notional of a derivative contract.

Field only applies when there is change in notional for a derivative contract.

Format and Standard: INCR – increase; DECR - decrease

Data source: not relevant for Eurex or Xetra transactions

Field 33: Price

Content: Traded price of the transaction excluding, where applicable, commission and accrued interest.

In case of option contracts, it shall be the premium of the derivative contract per underlying or index point.

In case of spread bets, it shall be the reference price of the underlying instrument.

For credit default swaps (CDS) it shall be the coupon in basis points.

Where price is reported in monetary terms, it shall be provided in the major currency unit.

Where price is currently not available but pending, the value shall be 'PNDG'

Where price is not applicable the value shall be 'NOAP'

The information reported in this field shall be consistent with the values provided in fields 30 and 46.

Format and Standard: {DECIMAL – 18/13} in case the price is expressed as monetary value; {DECIMAL – 11/10} in case the price is expressed as percentage or yield; PNDG in case the price is not available.

Data source: TE810, TC810, T7 ETI (Trade Notification), T7 Fix Gateway (Trade Capture Report), CEF Core

Field 34: Price Currency

Content: Currency in which the price is expressed (applicable if the price is expressed as monetary value)

Format and Standard: {CURRENCYCODE_3}

Data source: TE 810, TC 810, T7 ETI (Trade Notification), T7 Fix Gateway (Trade Capture Report), CEF Core

Eurex: RDI/RDF, Tag 15 (Currency). In Eurex settlement currency = trading currency

Field 35: Net amount

Content: The net amount of the transaction means the cash amount which is paid by the buyer of the debt instrument upon the settlement of the transaction. This cash amount equals to: (clean price * nominal value) + any accrued coupons. As a result, the net amount of the transaction excludes any commission or other fees charged to the buyer of the debt instrument. Field only applies when the financial instrument is debt.

Format and Standard: {DECIMAL – 18/5}

Data source: not relevant for Eurex or Xetra T7 transactions.
Börse Frankfurt TC 810, field settlement amount

Field 36: Venue

Content: Identification of the venue where the transaction was executed. Use the ISO 10383 segment MIC for transactions executed on a trading venue, Systematic Internaliser (SI) or organised trading platform outside of the Union. Where the segment MIC does not exist, use the operating MIC. Use MIC code 'XOFF' for financial instruments admitted to trading, or traded on a trading venue or for which a request for admission was made, where the transaction on that financial instrument is not executed on a trading venue, SI or organised trading platform outside of the Union, or where an investment firm does not know it is trading with another investment firm acting as an SI.

Use MIC code 'XXXX' for financial instruments that are not admitted to trading or traded on a trading venue or for which no request for admission has been made and that are not traded on an organised trading platform outside of the Union but where the underlying is admitted to trading or traded on a trading venue.

Format and Standard: {MIC}

Data source: CEF Core, Eurex TE810, FSE in trade notifications :

- FIX: RootPartyID (1117) = <MIC value or "XOFF"> with RootPartyIDSource (1118) = G (Market Identifier Code) and RootPartyRole (1119) = 73 (Execution venue)
- ETI: RootPartyIDExecutionVenue (20473)

Operating MIC: XEUR

- XEUR for Eurex

Operating MIC: XETR

- XETA for Xetra Regulated market (Segment MIC of XETR)
- XETB for Xetra Open Market (Segment MIC of XETR)
- XETS for Xetra Scale (Segment MIC of XETR)
- XETU for Xetra Regulated Market TES LIS and TES Enlight (Segment MIC of XETR)
- XETV for Xetra Open Market TES LIS and TES Enlight (Segment MIC of XETR)
- XETW for Xetra Scale TES LIS and TES Enlight (Segment MIC of XETR)

Operating MIC: XFRA

- FRAA for Börse Frankfurt Regulated Market (Segment MIC of XFRA)
- FRAB for Börse Frankfurt Open Market (Segment MIC of XFRA)
- FRAS for Börse Frankfurt Scale (Segment MIC of XFRA)

Field 37: Country of the branch membership

Content: Code used to identify the country of a branch of the investment firm whose market membership was used to execute the transaction.

Where a branch's market membership was not used, this field shall be populated with the country code of the home Member State of the investment firm or the country code of the country where the firm has established its head office or registered office (in the case of third country firms).

This field shall only be populated for the market side of a transaction executed on a trading venue or on an organised trading platform outside of the Union.

Format and Standard: {COUNTRYCODE_2}

Data source: Value is provided by the member.

Field 38: Up-front payment

Content: Monetary value of any up-front payment received or paid by the seller.

Where the seller receives the up-front payment, the value populated is positive. Where the seller pays the up-front payment, the value populated is negative.

Format and Standard: {DECIMAL-18/5}

Data source: not relevant for Eurex or Xetra transactions

Field 39: Up-front payment currency

Content: Currency of the up-front payment.

Format and Standard: {CURRENCYCODE_3}

Data source: not relevant for Eurex or Xetra transactions

Field 40: Complex trade component id

Content: Identifier, internal to the reporting firm to identify all the reports related to the same execution of a combination of financial instruments in accordance with Article 12. The code must be unique at the level of the firm for the group of reports related to the execution.

Field only applies when the conditions specified in Article 12 apply.

Format and Standard: {ALPHANUMERIC – 35}

Data source: Not relevant for Xetra. For Eurex: T7 ETI (Trade Notification), T7 Fix Gateway (Trade Capture Report) StrategyLinkId (tag 1851)

Field 41: Instrument identification code

Content: Code used to identify the financial instrument

This field applies to financial instruments for which a request for admission to trading has been made, that are admitted to trading or traded on a trading venue or on a systematic internaliser. It also applies to financial instruments which have an ISIN and are traded on organised trading platform outside of the Union where the underlying is a financial instrument traded on a trading venue.

Format and Standard: {ISIN}

Data source: TC810, CEF Core, RDS/RDF SecurityAltID (455)

Field 42-56 are not applicable where: transactions are executed on a trading venue.

Field 57: Investment decision within firm

Content: Code used to identify the person or algorithm within the investment firm who is responsible for the investment decision.

For natural persons, the identifier specified in Article 6 shall be used.

If the investment decision was made by an algorithm, the field shall be populated as set out in Article 8.

Field only applies for investment decision within the firm.

Where the transaction is for a transmitted order that has met the conditions for transmission set out in Article 4, this field shall be populated by the receiving firm within the receiving firm's report using the information received from the transmitting firm.

Format and Standard: {NATIONAL_ID} – Natural persons; {ALPHANUMERICAL – 50} - algorithm

Data source: Short-Code is provided in TE540, TE545, TC540, TC550. The long code used by member shall match with the short code / long code solution provided to the trading venues see chapter 3.3.

Field 58: Country of the branch responsible for the person making the investment decision

Content: Code used to identify the country of the branch of the investment firm for the person responsible for the investment decision, as set out in Article 14(3)(b).

Where the person responsible for the investment decision was not supervised by a branch, this field shall be populated with the country code of the home Member State of the investment firm or the country code of the country where the firm has established its head office or registered office (in the case of third country firms).

Where the transaction is for a transmitted order that has met the conditions for transmission set out in Article 4, this field shall be populated by the receiving firm within the receiving firm's report using the information received from the transmitting firm.

This field is not applicable when the investment decision was made by an algorithm.

Format and Standard: {COUNTRYCODE}

Data source: The value is provided by the member.

Field 59: Execution within firm

Content: Code used to identify the person or algorithm within the investment firm who is responsible for the execution.

For natural persons, the identifier specified in Article 6 shall be used. If the execution was made by an algorithm, the field shall be populated as set out in Article 9.

Format and Standard: {NATIONAL_ID} – natural persons, {ALPHANUMERICAL-50} - algorithm

Data source: short code is provided in TE540, TE545, TC540, TC550. The long code used by the member shall match with the short code/ long code solution provided to the trading venue see chapter 3.3.

Field 60: Country of the branch supervision the person responsible for the execution

Content: Code used to identify the country of the branch of the investment firm for the person responsible for the execution of the transaction, as set out in Article 14(3)(c).

Where the person responsible was not supervised by a branch, this field shall be populated with the country code of the home Member State of the investment firm, or the country code of the country where the firm has established its head office or registered office (in the case of third country firms)

This field is not applicable when the execution was made by an algorithm.

Format and Standard: {COUNTRYCODE_2}

Data source: The value is provided by the member.

Field 61: Waiver indicator

Content: Indication as to whether the transaction was executed under a pre-trade waiver in accordance with Articles 4 and 9 of Regulation (EU) No 600/2014.

For equity instruments:

'RFPT' = Reference price transaction

'NLIQ' = Negotiated transactions in liquid financial instruments

'OILQ' = Negotiated transactions in illiquid financial instruments

'PRIC' = Negotiated transactions subject to conditions other than the current market price of that equity financial instrument

For non-equity instruments:

'SIZE' = Above specific size transaction

'ILQD' = Illiquid instrument transaction

This field shall only be populated for the market side of a transaction executed under a waiver on a trading venue.

Format and Standard: Populate one or more of the following flags: LRGS, RFPT, NLIQ, OILQ, PRIC, SIZE, ILQD

Data source:

Xetra: not relevant. Please note that for Deutsche Börse Cash Market (MIC codes FRAA, FRAB, FRAS, XETA, XETB, XETS, XETU, XETW, XETV) the field waiver indicator always has to be empty as these markets do not support execution of transactions under the above mentioned pre-trade waivers.

Eurex: For TES transactions, the relevant flag is only ILQD. For mapping purposes please use trade type "TES" AND instrument is flagged as illiquid AND deferred. Security Definition message on RDI/RDF defines if a particular instrument is illiquid or not - "Illiquid as defined by exchange" (tag 871, value 112) provided via the instrument snapshot message of MDI / EMDI / RDI: The flag is set on product level for all derivatives products and is passed on to instrument level without any exceptions. In TE545, "isDisclosed" field provides the information if a trade is deferred or not. isDisclosed = 1 (True) means that trade is disclosed/published immediately. isDisclosed = 0 (False) means that the trade will be disclosed later i.e. deferred publication. So a combination of RDI/RDF and TE545 can be used to identify the Waiver Indicator.

Field 62: Short selling code

Content: A short sale concluded by an investment firm on its own behalf or on behalf of a client, as described in Article 11.

When an investment firm executes a transaction on behalf of a client who is selling and the investment firm, acting on a best effort basis, cannot determine whether it is a short sale transaction, this field shall be populated with 'UNDI'

Where the transaction is for a transmitted order that has met the conditions for transmission set out in Article 4 of this Regulation, this field shall be populated by the receiving firm in the receiving firm's reports using the information received from the transmitting firm.

This field is only applicable when, the instrument is covered by Regulation (EU) No 236/2012, and the seller is the investment firm or a client of the investment firm.

Format and Standard: SESH – short sale with no exemption, SSEX – short sale with exemption, SELL – no short sale, UNDI – information not available

Data source: For Xetra transactions, the member needs to provide the appropriate short selling code, for Eurex transactions "SELL" applies as default for all transactions.

Field 63: OTC post-trade indicator

Content: Indicator as to the type of transaction in accordance with Articles 20(3)(a) and 21(5)(a) of Regulation (EU) No 600/2014.

For all instruments:

'BENC' = Benchmark transactions

'ACTX' = Agency cross transactions

'LRGS' = Post-trade large-in-scale transactions

'ILQD' = Illiquid instrument transaction

'SIZE' = Above specific size transaction

'CANC' = Cancellations

'AMND' = Amendments For equity instruments

'SDIV' = Special dividend transactions

'RPRI' = Transactions which have received price improvement

'DUPL' = Duplicative trade reports

'TNCP' = Transactions not contributing to the price discovery process for the purposes of Article 23 of Regulation (EU) No 600/2014

For non-equity instruments:

'TPAC' = Package transaction

'XFPH' = Exchange for Physical transaction

Format and Standard: 'BENC' – Benchmark, 'ACTX' – Agency cross, 'LRGS' – Large in scale, 'ILQD' – Illiquid instrument, 'SIZE' – Above specified size, 'CANC' – Cancellations, 'AMND' – Amendments, 'SDIV' – Special dividend, 'RPRI' – Price improvement, 'DUPL' – Duplicative, 'TNCP' – Not contributing to the price discovery process, 'TPAC' – Package, 'XFPH' – Exchange for Physical.

Data source: not relevant for Eurex or Xetra transactions

Field 64: Commodity derivative indicator

Content: Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/65/EU.

Where the transaction is for a transmitted order that has met the conditions for transmission set out in Article 4, this field shall be populated by the receiving firm in the receiving firm's reports using the information received from the transmitting firm. This field is only applicable for commodity derivative transactions.

Format and Standard: true; false

Data source: Not relevant for Xetra. Eurex members need to provide "true" if the transaction resulted in a risk reduction and "false" for risk increases. Only relevant for transactions in commodity derivatives which can be identified via the CFI code classification according ISO 10962: 2015. The CFI code is provided with the product reference data via RDI/RDF.

Field 65: Securities financing transaction indicator

Content: 'true' shall be populated where the transaction falls within the scope of activity but is exempted from reporting under Regulation (EU) 2015/2365. 'false' otherwise.

Format and Standard: true, false

Data source: The value is provided by the member.

2.3 Additional information

2.3.1 Frankfurt Stock Exchange non-CCP transactions

In case of non-CCP-trades the FSE trading participants must identify the counterparty using the field ctrPtyId of the TC810. The memberIDs shall be mapped to the LEI using the trading participants list available on the webpage:

Xetra.com > Trading > Trading participants

2.3.2 Cancellation of transactions (Eurex and FSE)

- Cancellation of transaction on t: Transactions on day t are identified and hence cancelled on day t. The transaction and the cancellation are not reported to NCA in the transaction reporting.
- Cancellation of transactions on t+n reported on t+n. In order to inform the NCA about the cancellation, a “cancellation record” (i.e. reverse of the original transaction) has to be provided to the NCA on t+n day.

2.4 Transaction reporting requirements for non-MiFIR firms according to the Regulation EU No 600/2014 article 26(5)

Please find below the requirements regarding transaction reporting for Eurex and Frankfurt Stock Exchange (FSE, incl. Börse Frankfurt Zertifikate AG) participants who are not subject to MiFID II and MiFIR (in the following referred to as non-MiFIR trading participants).

2.4.1 Transaction Reporting Requirements

According to the Commission Delegated Regulation on reporting obligations, under article 26 of Regulation EU No 600/2014, Eurex and FSE participants who fall under the scope of MiFID II / MiFIR or, which are third country firms but have a branch in the European Economic Area (EEA), shall submit transaction reports to the competent authority of the member state where the member or its branch is registered.

For entities not subject to this regulation, it is the operator of a trading venue who is responsible for the transaction reporting of financial instruments traded on its platform. Hence, we request our non-MiFIR trading participants to provide transaction report relevant information to the respective trading venue.

2.4.2 Transaction Reporting Scope

Eurex and FSE non-MiFIR trading participants are obliged to submit the following information for transaction reporting:

- Participant reference data
Participant reference data such as Legal Entity Identification codes (LEIs) of participants, National IDs of the traders of the respective member firms, algorithm certificates and short codes shall be submitted in the Member Section or via SFTP. With T7 release 10.0 the SFTP server will be replaced by the Common Upload Engine (CUE). Please find more information in chapters 3 and 4.
- Transaction data
There are 65 data fields in the transaction report as set out in Annex I of Commission Delegated Regulation (EU) 2017/590 and as described in chapter 2.2 of this document. While most of the fields can be populated using the transaction data of the respective trading system, the information for some fields needs to be added by the non-MiFIR trading participant.

Therefore, Eurex and FSE require non-MiFIR trading participants to connect to Deutsche Boerse’s Common Upload Engine (CUE) and Common Reporting Engine (CRE) respectively for submission and download of transaction-related data. Please note that the establishment of the reporting infrastructure and the timely provision of the data has been a membership requirement since 3 January 2018.

2.4.3 Required fields to be added by participants

Non-MiFIR trading participants must add the following fields to the data records the trading venues provide them with. These fields are dependent on different scenarios (please refer to the Regulatory Reporting Solution for non-MiFIR Trading Participants User Manual, section 4.4.1 for further details).

The member must populate the following fields in the transaction report except for cancel records:

- Field 7 (buyer details) or 16 (seller details) in case of INTC-client-side transactions or in case of PNAL-transactions,
- Field 9-15 (buyer details) or 18-24 (seller details) – only if the buyer (field 7) or seller (field 16) is a natural person,
- Field 62 (Short Selling Indicator) – only applicable for shares and sovereign debt (XETR or XFRA transactions) and only if the member (or one of its clients) is the seller,
- Field 64 (Commodity Derivative Indicator) – only for commodity derivatives (XEUR transactions).

Moreover, for client-side transactions of aggregated orders (i.e. INTC-client-side transactions) the member must populate the following fields:

- Field 3 (Trading Venue Transaction Identification Code, TVTIC), which must be identical to (one of) the market-side execution(s) of the aggregated order,
- Field 28 (Trade Date) must be identical to the trade date in the market-side report, whereas the time can be different,
- Field 29 (Trading Capacity),
- Field 30 (Quantity) the sum of transactions in a particular ISIN with buyer id = 'INTC' has to be equal to the sum of transactions in that ISIN with seller id = 'INTC' in the same Upload File,
- Field 33 (Price),
- Field 35 (Net Amount) for INTC-client-side transactions the market side of which is executed on an XFRA segment, if the traded instrument is a bond.

The member may correct the content of the following fields:

- Field 7-15 (buyer details) or 16-24 (seller details),
- Field 40 (Complex Trade Component ID) – the member may use its own strategy identifier,
- Field 57 (Investment Decision within Firm + ID Type),
- Field 58 (Country of the Branch responsible for the Person making the Investment Decision),
- Field 59 (Execution within Firm + ID Type),
- Field 60 (Country of the Branch supervising the Person responsible for the Execution).

2.4.4 Technical set-up

A new reporting solution will be introduced with T7 Release 10.0 on 22.11.2021. Non-MiFIR members are required to connect to:

- CRE as central SFTP connection point to download transaction data (extract file and feedback file).
- CUE as central SFTP connection point to upload transactions and, if applicable, personal data of the end clients for trades in AOTC (Eurex and FSE) and MTCH (FSE only) capacity.

The technical connection to the CUE will be established in the same manner as to the CRE system. Deutsche Börse Group's member section will be used for the respective account management (set up the technical connection to the CUE and CRE), i.e. enabling upload of the technical key certificates using the Member Section's key generator feature. Please find the CUE and CRE user manuals under the following paths:

- Xetra.com > Technology > T7 trading architecture > System documentation > Release 10 > Reports
 - Eurex > Support > Initiatives & Releases > T7 Release 10.0 > MiFID II/MiFIR
-

2.4.5 Reporting solution processing

The non-MiFIR trading participant has to request access to CUE and CRE market folder “mifid” for the transaction reporting purpose (please refer to the Regulatory Reporting Solution for non-MiFIR Trading Participants User Manual, section 3 for further details). In case a non-MiFIR trading participant has multiple member IDs, the “mifid” folder access can be set up for one member ID or all member IDs. We recommend requesting access for one member ID only as the transaction reporting is on legal entity, i.e. LEI level and can be retrieved with any member ID belonging to one legal identity.

1. Retrieval of the extract file

Extract files will be provided to the non-MiFIR trading participant in the CRE’s “mifid” folder at the end of day T. The CSV extract files will be generated per operating MIC and on LEI level. Thus, for a non-MiFIR trading participant with multiple Member IDs, there will be one CSV file per operating MIC covering all transactions of all its Member IDs.

2. Enrichment by the trading participant (if necessary)

The non-MiFIR trading participant enriches the transactions, if needed, with the necessary data (please refer to chapter 2.4.3 and to the “Regulatory Reporting Solution for non-MiFIR trading participants user manual” for further details).

3. Provision of the upload file to the trading venue

Non-MiFIR trading participants are required to submit the transactions in the CSV file latest by 18:00 CET/CEST on T+1. Upload files have to be provided to the CUE’s “mifid” UPLOAD folder of the respective trading day.

4. Retrieval of the feedback file

Feedback files will be provided to the non-MiFIR trading participant in the CRE’s “mifid” folder.

Please find comprehensive information to this high-level overview of the transaction reporting processing in the “Regulatory Reporting Solution for non-MiFIR trading participants user manual” and sample files on the trading venues’ webpages:

- [Xetra.com > Newsroom > Current regulatory topics > MiFID II and MiFIR > Non-MiFIR firms](#)
- [Eurex.com > Rules & Regs > MiFID II/MiFIR > Reporting](#)

2.4.6 Important information for the go-live of the new reporting solution in November 2021 Simulation

It is strongly recommended that Non-MiFIR trading participants take part in simulation. The simulation of T7 release 10.0 is planned to take place from 13.09.2021 to 19.11.2021. The readiness statement must be submitted latest by 19.11. 2021.

First transaction reporting based on the new reporting solution

The transactions of trading day 19.11.2021 must be reported on the 22.11.2021 with the new reporting solution.

2.4.7 Support contacts

Functional Support

For any functional questions please contact Business Operations Team, which is going to provide first level support for non-MiFIR members.

Hotline: +49 (0) 69 211 11320

FAX: +49 (0) 69 211 6 11320
Support Hours: 07:00 – 18:20 CE(S)T
TVR@deutsche-boerse.com

Technical Support

For any technical questions please contact our Customer Technical Support (CTS).
Hotline: +49 (0) 69 211 VIP/ or +49 (0) 69 211 10 888
Support hours: 01:00 - 22:00 CE(S)T
cts@deutsche-boerse.com

2.4.8 Reporting choices for non-MiFIR member

Definition third country firms

Directive 2014/65/EU, Art.4 1. (57) Third-country firms in MiFID II and MiFIR refer to firms outside of the European Union who are eligible to provide financial services within the EU.

Reporting by branches

Commission Delegated Regulation 2017/590, Article 14 “Reporting transactions executed by branches”

(1.) Investment firms shall report transactions executed wholly or partly through its branch to the competent authority of the home Member State of the investment firm unless otherwise agreed by the competent authorities of the home and host Member States.

(2.) Where an investment firm executes a transaction wholly or partly through its branch, it shall report the transaction only once.

(5.) The branch of a third country firm shall submit the transaction report to the competent authority which authorised the branch. The branch of a third country firm shall fill in the relevant fields in Table 2 of Annex I with the ISO country code for the Member State of the authorising competent authority. Where a third country firm has set up branches in more than one Member State within the Union, those branches shall jointly choose one of the competent authorities from the Member States to whom transaction reports are to be sent pursuant to paragraphs 1 to 3.

Commission Delegated Regulation 2017/590, Article 15 “Methods and arrangements for reporting financial transactions” [..]

(e) mechanisms to avoid the reporting of duplicate transaction reports, including where an investment firm relies on a trading venue to report the details of transactions executed by the investment firm through the systems of the trading venue in accordance with Article 26(7) of Regulation (EU) No 600/2014;

(f) mechanisms to ensure that the trading venue only submits reports on behalf of those investment firms that have chosen to rely on the trading venue to send reports on their behalf for transactions completed through systems of the trading venue.

Conclusion

Either the non-MiFIR trading participant relies on the trading venue and the reporting to the venue’s home competent authority for whole of transactions, or the non-MiFIR trading participant reports via a branch on the branch’s home competent authority.

3 Audit Trail Reporting

3.1 Regulatory requirements

In terms with Article 25 (2) of Regulation (EU) No 600/2014, the operator of a trading venue shall keep at the disposal of the competent authority, for at least five years, the relevant data on all orders in financial instruments which are advertised through their systems. The records shall contain the relevant data such as the characteristics of the order, including those that link an order with the executed transaction(s) stemming from that order; these details shall be reported in accordance with Article 26(1) and (3). In order to fulfill these requirements, the trading venue built new fields in the trading system. These new fields are described in next chapters.

3.2 Extract: Audit trail fields¹

Field 2: Direct Electronic Access (DEA)

Content: 'true' where the order was submitted to the trading venue using DEA as defined in Article 4(1)(41) of Directive 2014/65/EU. 'false' where the order was not submitted to the trading venue using DEA as defined in Article 4(1)(41) of Directive 2014/65/EU.

Format and Standard: true; false

Data source: FSE TC540, TC810; Eurex TE540, TE810 'dmaFlg'

For more information please refer to chapter 5.

Field 8: Liquidity provision activity

Content: Indicates whether an order is submitted to a trading venue as part of a market-making strategy pursuant to Articles 17 and 48 of Directive 2014/65/EU or is submitted as part of another activity in accordance with Article 3 of this Regulation.

Format and Standard: true; false

Data source: Trading participants have to flag these orders/quotes during entry. The reporting will take place in FSE report TC540, TC550, TE540, TE545, TE550 "liqProvActivity".

T7: "OrderAttributeLiquidityProvision" (tag 23002) via ETI: Mandatory field in order, quote and TES transactions required to be set by the entering trader. Since the field is mandatory, only valid values are accepted for each relevant transaction and, consequently "0 - no liquidity provision" or "1 - liquidity provision" in the audit trail of T7.

Field 21: New order, order modification, order cancellation, order rejections, partial or full execution

Content:

- New order: receipt of a new order by the operator of the trading venue.
- Triggered: an order which becomes executable or, as the case may be, non-executable upon the realization of a pre-determined condition.
- Replaced by the member or participant of the trading venue: where a member, participant or client of the trading venue decides upon its own initiative to change any characteristic of the order it has previously entered into the order book.
- Replaced by market operations (automatic): where any characteristic of an order is changed by the trading venue operator's IT systems. This includes where a peg order's or a trailing stop order's current characteristic are changed to reflect how the order is located within the order book.

¹ RTS24, Annex, Table 2

- Replaced by market operations (human intervention): where any characteristic of an order is changed by a trading venue operator's staff. This includes the situation where a member, participant of the trading venue has IT issues and needs its orders to be cancelled urgently.
- Change of status at the initiative of the member, participant of the trading venue. This includes activation and deactivation.
- Change of status due to market operations.
- Cancelled at the initiative of the member, participant of the trading venue; where a member, participant or client decides upon its own initiative to cancel the order it has previously entered.
- Cancelled at the initiative of the member, participant of the trading venue; where a member, participant or client decides upon its own initiative to cancel the order it has previously entered.
- Cancelled by market operations. This includes a protection mechanism provided for investment firms carrying out a market-making activity as laid down in Articles 17 and 48 of Directive 2014/65/EU.
- Rejected order: an order received but rejected by the operator of the trading venue.
- Expired order: where the order is removed from the order book upon the end of its validity period.
- Partially filled: where the order is not fully executed so that there remains a quantity to be executed. 'PARF' - Partially filled
- Filled: where there is no more quantity to be executed.
- Request for quote sent: when the RFQ was sent out to the potential counterparties.

Format and Standard:

- 'NEWO' - New order;
- 'TRIG' - Triggered;
- 'REME' - Replaced by the member or participant of the trading venue;
- 'REMA' - Replaced by market operations (automatic);
- 'REMH' - Replaced by market operations (human intervention);
- 'CHME' - Change of status at the initiative of the member/ participant of the trading venue;
- 'CHMO' - Change of status due to market operations;
- 'CAME' - Cancelled at the initiative of the member or participant of the trading venue;
- 'CAMO' - Cancelled by market operations;
- 'REMO' - Rejected order;
- 'EXPI' - Expired order;
- 'PARF' - Partially filled;
- 'FILL' - Filled;
- {ALPHANUM-4} characters not already in use for the trading venue's own classification.

Such as:

- 'RFQS' – Request for quote sent;

Data source : TC540, TC545, TC600, TC610, TE540, TE545 'regOrderEvent'.

Field 31: Price notation

Content: Indicates whether the price is expressed in monetary value, in percentage, in yield or in basis points.

Format and Standard:

- 'MONE' – Monetary value
- 'PERC' – Percentage
- 'YIEL' – Yield

- ‘BAPO’ – Basis points

Data Source:

The price notation information will be distributed via a new field in the post-trade CEF Core Feed and in the T7 Reference Data Interface as field #423 “Price Type” with the following values:

- 1: PERC [percentage]
- 2: MONE [monetary]
- 22: BAPO [basis points]

For Eurex and FSE, value YIEL [yield] is currently not applicable.

Field 44: Passive or aggressive indicator:

Content: On partial fill and fill order events, indicated whether the order was already resting on the order book and providing liquidity (passive) or the order initiated the trade and thus took liquidity (aggressive)

Format and Standard: ‘PASV’ – passive; ‘AGRE’ - aggressive.

Data source: Börse Frankfurt: blank due to the continuous auction model.

T7: FSE and Eurex report TC810 (TE810) ‘sideLiquidityInd’; and #1444 SideLiquidityInd ETI

This field is only populated for executions occurring in continuous trading sessions otherwise it is blank. Orders are neither passive nor aggressive during auction periods.

Field 48: Trading venue transaction identification code

Content: Alphanumeric code assigned by the trading venue to the transaction pursuant to Article 12 of this Regulation. The trading venue transaction identification code shall be unique, consistent and persistent per ISO10383 segment MIC and per trading day. Where the trading venue does not use segment MICs, the trading venue transaction identification code shall be unique, consistent and persistent per operating MIC per trading day. The components of the transaction identification code shall not disclose the identity of the counterparties to the transaction for which the code is maintained.

Format and Standard: {ALPHANUM-52}

Data source:

- ETI Trade Notifications, TES Trade Broadcast: RegulatoryTradeID, tag 1903
- FGW Trade Capture Report
- TC810, TE810
- CEF Core: TRANS_ID_CODE (846F)

FSE and Eurex T7:

If members do not retrieve the information from the “data source” stated above, the field TVTIC can be concatenated by the following fields. Please note that the length of the fields shall be fixed with leading zeros to the given 52-character string value below. It is recommended to take the data required to create the TVTIC from T7 ETI interface.

Envir_Flag (1)+ SecurityID (20)+ TranTime (20)+ DealType (1) + MatchStepID (10)

FSE T7 rules:

- **Envir_Flag (1):**
 - Valid value "1" for the Xetra market (MIC XETR)
 - Valid value "3" for Börse Frankfurt and Börse Frankfurt Zertifikate (MIC XFRA)

Field length is one digit.
- **SecurityID (20):**
 - RDI/RDF, EMDI, ETI: SecurityID (Tag 48)
 - FGW: SecurityAltID (Tag 455)

Field length is fix 20 digits. The part on the leading zeros needs to be provided to reach the fixed length.
- **TranTime (20):**
 - ETI: Trade Notification and TES trade broadcast TransactTime Stamp (Tag 60)
 - EMDI: MDEntryTime (Tag 273)
 - FGW in Execution and Trade Capture Report UTransactTime (Tag 30060)

Field length is fix 20 digits. The part on the leading zeros needs to be provided to reach the fixed length.
- **DealType (1):**
 - Valid value "0" for on-book
 - Valid value "1" for off-book

Field length is one digit.
- **MatchStepID (10):**

For on-book

 - ETI: TrdMatchID (tag 880)
 - EMDI: MDEntryID (tag 278)
 - FGW: TradeMatchID (tag 880)

For off-book

 - ETI and FGW: PackageID (tag 2489)
 - EMDI: MDEntryID (tag 278)

Field length is fix 10 digits. The part on the leading zeros needs to be provided to reach the fixed length.

Eurex T7 rules:

- **Envir_Flag (1):** to be set to 1 for Eurex T7 and to 2 for FX T7 as prefix from session context.
- **SecurityID (20):** RDI/RDF, EMDI, ETI and FGW (Tag 48 SecurityID). Field length is fix 20 digits. The part on the security ID leading zeros needs to be provided to reach the fixed length.
- **TranTime (20):**
 - ETI,trade notification and TES trade broadcast: TransactTime Stamp (Tag 60)
 - EMDI: MDEntryTime (Tag 273)
 - FGW in Execution and Trade Capture Report UTransactTime (Tag 30060)

Field length is fix 20 digits. The part on the leading zeros needs to be provided to reach the fixed length.
- **DealType (1):**
 - Valid value "0" for on-book
 - Valid value "1" for off-book
 - EMDI: MDOriginType (tag 1024)

- MatchStepID (10):
 - ETI, trade notification broadcast: TradeMatchID (tag 880)
 - ETI, TES trade broadcast: PackageID (tag 2489)
 - EMDI: MDEntryID (tag 278)
 - FGW: TrdMatchID (tag 880)

As a general rule, the T7 SecurityID used for the creation of the TVTIC is always a simple instrument Security ID as e.g. provided in the T7 trade confirmation. In case of a complex (multi-leg) instrument match, the TVTIC is created on instrument leg level and the corresponding leg instrument Security ID is taken into account.

Consequently, a TVTIC on complex instrument level is not supported. The approach of referring to the simple instrument Security ID uniformly covers all different types of trades resulting from the matching of simple and complex instruments. As an example, a matching event of a futures calendar spread results to two TVTIC which only differ by the SecurityID representing the corresponding T7 instrument ID of leg 1 and leg 2 (regardless whether the matching event involves synthetic matching or not).

With the help of the Strategy Link Id (tag 1851), it is possible to retrieve all relevant information on complex instrument level.

Uniqueness

T7: The field used is unique per segment MIC, business day, transaction, price level and system (FX T7 und FSE T7 and Eurex T7).

3.3 Short Code Solution

This chapter describes the short code solution comprising the T7 trading system, the MIFID II / MIFIR and uniqueness requirements, registration of short codes, the short code management, monitoring and sanctioning and information about the common upload engine (CUE).

3.3.1 Technical fields in the trading system T7

Deutsche Börse Group follows the EU-wide industry “short code solution” standard. Trading participants shall insert the information of the ESMA fields² “client identification code”, the “execution within firm” and the “investment decision within firm” in the respective T7 fields using this logic. The fields are available in the order and quote messages as 8-byte 20 digits numeric fields.

- Client ID (for the MiFID field “Client identification code”)
- Execution ID (for the MiFID field “Execution within firm”)
- Investment ID (for the MiFID field “Investment decision within firm”)

As the fields execution decision and investment decision can contain an algoID or a short code, there are respective qualifier fields. Please set the qualifier fields to the following values³ in order to identify the numeric values in execution decision and investment decision as algo (22) or short code (24):

- Execution Qualifier value 22 = Algo or 24 = Human
- Investment Qualifier value 22 = Algo or 24 = Human

Following the ESMA requirements⁴, the submission of the Execution ID is mandatory, and the Investment ID is optional as the field must be blank in case the client of the trading participant took the investment decision.

However, members can leave the execution and investment decision field blank and set the respective qualifier to “human” and the system automatically maps the NationalID of the submitting TraderID owner into the field in the trading venue’s audit trail. The ClientID is mandatory when trading in the Agent-/ Riskless Principal-Account (A-/R-account) i.e. the ESMA trading capacity AOTC / MTCH. Please find more information on all scenarios in 3.3.2.

Please note that the short code fields are not permitted to have leading zeros, e.g. “00012345” or be a stand-alone “0”.

² Commission Delegated Regulation (CDR) 2017/580, article 2

³ Values might differ with respect to different interfaces, e.g. ETI or FIX.

⁴ Commission Delegated Regulation (CDR) 2017/580, article 2 and ESMA guidelines ESMA/2016/1452, chapters 5.11, 5.12

3.3.2 Short code fields and attributes

Please find an overview of all scenarios including short codes by account (ESMA trading capacity) and related flagging of the fields below and the detailed information on the fields in this chapter.

Proprietary accounts (trading capacity DEAL) and riskless principal account (trading capacity MTCH)

Flagging options	Execution Decision	Execution Qualifier	Investment Decision	Investment Qualifier	Client ID
Execution decision taken by an algo. Investment decision taken by the trader or another person within the member firm.	Algo ID	T7: 22 (for an algo)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	-
Execution decision taken by the trader or another person within the member firm. Investment decision taken by an algo.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Algo ID	T7: 22 (for an algo)	-
Execution and investment decision are both taken by the trader or another person within the member firm.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	-
RISKLESS Principal Account ONLY Investment and execution decisions not taken within the participant firm.	NORE	T7: 24 (for a natural person)	Empty	Empty	Short code for LEI or National ID

Agent account (Trading capacity AOTC), client ID mandatory

Flagging options	Execution Decision	Execution Qualifier	Investment Decision	Investment Qualifier	Client ID
Execution and investment decision taken by an algo.	Algo ID	T7: 22 (for an algo)	Algo ID	T7: 22 (for an algo)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by an algo. Investment decision taken by the trader or another person within the member firm.	Algo ID	T7: 22 (for an algo)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by the trader or another person within the member firm. Investment decision taken by an algo.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Algo ID	T7: 22 (for an algo)	Short code for LEI or National ID, PNAL or AGGR
Execution and investment decision are both taken by the trader or another person within the member firm.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by the trader or a person of the member firm other than the trader and the investment decision not taken within the investment firm.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Empty	Empty	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by an algo and the investment decision not taken within the investment firm.	Algo ID	T7: 22 (for an algo)	Empty	Empty	Short code for LEI or National ID, PNAL or AGGR

Agent account (Trading capacity AOTC), client ID mandatory

Flagging options	Execution Decision	Execution Qualifier	Investment Decision	Investment Qualifier	Client ID
Investment and execution decision not taken within the participant firm.	NORE	T7: 24 (for a natural person)	Empty	Empty	Short code for LEI or National ID, PNAL or AGGR

3.3.2.1 ClientID

The ClientID must be populated with a short code of the trading participant's immediate client. It is a mandatory field for all orders entered on A-/ R-account.⁵ Without using a short-code (empty) the order-entry will be rejected. If you are entering orders via proprietary accounts, the ClientID must be empty.

The short code used in the ClientID must be registered with a long code, i.e. natural persons with the respective NationalID, legal persons with the legal entity identifier (LEI) or the ESMA valid values for certain exemptions.

National ID by country and priority

The national ID for natural persons⁶ must follow the format requirements of valid national identifiers as outlined in the ESMA Questions and Answers on MiFIR data reporting⁷.

Please refer to chapter 7 for your convenience.

LEI

Legal persons have to be identified with the LEI as defined in ISO 17442.

ESMA valid values⁸**"PNAL"**

In the exceptional case of an allocation that is pending at the time of order submission and where the applicable national legislation allows for the allocation of the order to take place after its submission, please populate the field with short code for the default reference "PNAL" for such order.

"AGGR"

Where the allocation has taken place and clients are identified before the transmission of the order to the Trading Venue's member or participant for execution but the orders of several clients are aggregated by the member or participant of the Trading Venue, the participant is requested to populate Client ID with the short code with the default reference "AGGR".

⁵ Commission Delegated Regulation (CDR) 2017/580 Art. 2, ESMA Guidelines (ESMA/2016/1452) chapter 6.3

⁶ Annex II of Commission Delegated Regulation (EU) 2017/590

⁷ ESMA70-1861941480-56, p.50

⁸ ESMA Guidelines (ESMA/2016/1452) chapter 6.3

The following short codes, representing industry standards, shall be used to flag the ESMA permitted attributes of the ClientID. Please note that you are required to upload the respective short/long codes in your mapping file. Please refer to 3.3.4 for examples.

1 – Aggregated order flag “AGGR”

2 – Pending allocations flag “PNAL”

If you used PNAL or AGGR, you are not required to provide the trading venues with the ClientIDs afterwards. Those values have to be provided in your transaction reporting to the NCA but not to the trading venue. For further details please refer to the ESMA guidelines⁹.

3.3.2.2 Execution ID

The executionID is mandatory in every order and quote, irrespectively of the account (e.g. A-, R-, P-, M-account). As by ESMA definition¹⁰ this decision is taken “within the member firm”, there is no option to identify a client in this field. If a client took this decision, ESMA defines this field to be populated with the ESMA value “NORE”. Hence, the trading participant must populate this field with a short code for the long code “NORE”.

However, if this decision is taken within the trading participant’s firm, an algoID or a short code for the natural person within the firm must be populated. For trading participants’ convenience, this field can be left empty and the qualifier set to “human” and the trading venue maps the national ID of the trader automatically to the trading venue’s audit trail.

The short code used in the execution decision must be registered with a long code, i.e. natural persons with the respective NationalID or the ESMA valid value “NORE” for this exemption.

National ID by country and priority

The national ID for natural persons¹¹ must follow the format requirements of valid national identifiers as outlined in the ESMA Questions and Answers on MiFIR data reporting¹².

Please refer to chapter 7 for your convenience.

ESMA valid value¹³

“NORE”

In cases where the decision about the execution was made by a client (e.g. the client instructs the details of the trade including the venue of execution) or by another person from outside the

⁹ ESMA/2016/1452, chapter 6.3

¹⁰ Commission Delegated Regulation (CDR) 2017/580 Art. 2, (CDR) 2017/590 Art. 8, ESMA Guidelines (ESMA/2016/1452) chapters 5.12.

¹¹ Annex II of Commission Delegated Regulation (EU) 2017/590

¹² ESMA70-1861941480-56, p.50

¹³ ESMA Guidelines (ESMA/2016/1452) chapter 6.3

investment firm (e.g. an employee of a company within the same group), investment firms should use the default value "NORE" in this field.

The short code "3", representing industry standard, shall be used to flag the ESMA permitted value "NORE" of the execution decision. Please note that you are required to register the respective short/long code with the trading venue. Please refer to 3.3.3 for an example.

It is in the trading participants' responsibility to determine the decision maker (e.g. algorithm, natural person or client) who is primarily responsible for the execution in accordance with their governance model.

3.3.2.3 Investment ID

The investmentID is mandatory in every order and quote, if trading in proprietary accounts e.g. P-, M-account. As by ESMA definition¹⁴ this decision is taken "within the member firm", there is no option to identify a client in this field. If a client took this decision, ESMA defines this field to be empty. For this purpose, please leave the qualifier field empty too.

However, if this decision is taken within the trading participant's firm, an algoID or a short code for the natural person within the firm must be populated. For trading participants' convenience, this field can be left empty and the qualifier set to "human" and the trading venue maps the national ID of the trader automatically to the trading venue's audit trail.

The short code used in the investment decision must be registered with a long code, i.e. natural person with the respective NationalID.

National ID by country and priority

The national ID for natural persons¹⁵ must follow the format requirements of valid national identifiers as outlined in the ESMA Questions and Answers on MiFIR data reporting¹⁶.

Please refer to chapter 7 for your convenience.

It is in the participants' responsibility to determine the decision maker (e.g. algorithm, natural person or client) who is primarily responsible in accordance with their governance model.

3.3.3 Data requirements of short / long code combinations

3.3.3.1 Uniqueness and consistency

The short/long code combinations have to be unique and consistent over time, i.e. the long code (natural persons: natural person within the trading participant or client of a trading participant; legal persons: LEI) needs to be assigned to one single short code, which will be used in order to identify that client since the first day of usage.

¹⁴ Commission Delegated Regulation (CDR) 2017/580 Art. 2, (CDR) 2017/590 Art. 8, ESMA Guidelines (ESMA/2016/1452) chapters 5.11.

¹⁵ Annex II of Commission Delegated Regulation (EU) 2017/590

¹⁶ ESMA70-1861941480-56, p.50

For example: The trading participant has a client John Doe, with a long code “19811025JOHN#DOE##”. The trading participant registers that long code with a short code “123”. Hence, short code “123” must be used for John Doe starting with the first order submission for this client and has to be used for every consecutive order submission.

However, short codes used in an order/quote for the first time may be decrypted into the corresponding long codes latest by the end of the trading day following the trading day of the order submission (t+1). In contrast, it is not required that the long code assigned to a short code is already registered with the exchange prior to first usage of the short code. The requirement to use "stable", i.e. unique, and invariable short/long code combinations over time, remains unchanged.

3.3.3.2 Exemption

An exemption to the uniqueness of short/long code combinations may be granted, if a client of a trading participant holds more than one deposit account for securities (custody account) within the trading participant’s firm. In such a case it is permitted to assign a unique short code for each custody account of that client. There is no pre-defined threshold of permitted short codes for such cases. However, the total of short codes must be identical to the total of custody accounts of that client, i.e. every single custody account is permitted to have one unique short code.

For such or similar cases the trading venues’ management boards may grant exemptions upon written request.

Please contact for such queries:

- FSE: regulatory.processing@deutsche-boerse.com
- Eurex: eurex.reg.reporting@eurex.com

3.3.3.3 Modification

The short/long code combination is only allowed to be modified for an update of the long code, i.e. if this long code (LEI or NationalID pursuant to the ESMA requirements) has changed. For instance, permitted changes in long codes are an update of a passport number or the change of a CONCAT due to marriage and hence a change of the family name.

3.3.3.4 Deletion

Deletions of short/long code combinations are allowed if the contractual relationship between the trading participant and the legal or natural person does not exist. Hence, this short/long code combination is no longer in use. Those short codes can be re-used after the short/long code registration was successfully deleted. The deletion terminates the short/long code combination, which will be reported in the TR161 short code overview report with a “valid to” date of the day of the deletion. At least one business day must pass between the termination and re-registration of a short code.

For instance: Deletion record for a registered short code with a “valid from” date “2022-01-27” (27 January 2022) sent to the trading venue before 23:30 CE(S)T on that date. TR161 short code overview report documents this deletion with a “valid to” date 27 January 2022. Another registration record for that short code with another long code can be processed earliest 28 January 2022. It is not permitted to delete a short/long code combination and register that short code with another long code on the same business day.

3.3.3.5 Correction

Correction for missing error (error code 1)

For cases where a short code was used for the first time, it is permitted to register that short/long code combination on the day of usage or latest by 23:30 CE(S)T the following trading day (please refer for further details to chapter 3.3.3.1). For the correction of that missing on the following trading day it is necessary to set the “valid from” to the previous trading (t-1) day.

For example:

Trading participant uses a short code “123”, which was not registered yet (e.g. a new client of the trading participant or a client of the trading participant, which has not traded on FSE or Eurex before) on trading day 10 November 2021. The TR160 for that day is provided to the trading participant after the overnight batch on 11 November 2021 and contains an error “missing” (error code 1) for the short code “123”. The trading participant must correct that missing short/long code combination by registering that combination with the respective trading venue latest by 23:30 CE(S)T on 11 November 2021 as this is the following trading day after the order submission. The record in the upload file has to have the “valid from” field set to “2021-11-10” in order to correct the missing registration of day 10 November 2021. Please note that per ESMA definition¹⁷ a correction of that missing registration is only permitted until the end of business of the consecutive trading day following the order submission, i.e. t+1 23:30 CE(S)T. If this short/long code combination was not registered in time, it will be subject of sanction proceedings (for more information please refer to chapter 3.3.6.1).

Correction due to short code typo in the order/quote submission (breach of uniqueness)

Please note for the case that a trading participant used a short code incorrectly, i.e. due to a typo during the addition of the short code into the order, the trading participant must ensure to comply with the data provision requirement and also re-establish uniqueness.

The trading participant needs to register the incorrectly added short code with the respective long code in order to comply with the data provision obligation. As this short/long code combination constitutes a violation of the uniqueness and serves as correction only, the short/long code combination must be deleted on the following business day.

Those errors need to be reported by email to the trading venues on the day the correcting short/long code combination is registered. The information has to include:

- a) Registered short/long code combination, which should have been used (TR161)
- b) incorrectly used short/long code combination and day of registration
- c) confirmation to delete the registered short/long code combination of b) on the following trading day.

Please contact the following teams for your error reporting:

- FSE: regulatory.processing@deutsche-boerse.com
- Eurex: eurex.reg.reporting@eurex.com

These reportings will be considered in uniqueness monitoring. If the redundant short/long code combinations are not deleted, those will be subject of sanction proceedings.

¹⁷ ESMA Guidelines (ESMA/2016/1452) chapters 6.2

3.3.4 Registration of short / long codes

Once the trading participant has uniquely assigned short codes to his long codes, the data has to be registered with the trading venue. An upload file has to be created and provided to the trading venues via an upload functionality.

The uploads shall take place on business days between 00:00 and 23:30 CE(S)T. Uploads after 00:00 the following day are feasible. However, the date in the file name has to be changed to the next business day (not calendar day).

There are two upload functionalities: one is available in the **member section** and another is available on the **common upload engine (CUE)**. Both functionalities have a pre-validation tool installed, which applies validations on file structure and field length of the long values (according to LEI ISO 17442 and ESMA requirements for national identifiers¹⁸ - please see chapter 7 for your convenience) and provide immediate response. Those validations are preliminary, the full data validation is processed in the overnight batch and the results are available in the TR160 error and the TR161 overview reports.

Please note: if the upload file contains an error, the file is rejected during the upload process completely and a log file indicating the error(s) is provided to the trading participant. The member section functionality responds via email and the CUE provides a log file retrievable from the respective “trading date” CUE folder. During the overnight batch the data is validated again and checked against the database. Only separate data records might be rejected dependent on the error reason and provided to the trading participant in the TR160 short code error report.

Please find user manuals on the webpages under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10.0 >> Reports
- Eurex.com >> Rules-Regs >> MiFID II/MiFIR >> Client & Member Reference Data
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

3.3.4.1 Upload file naming convention

3.3.4.1.1 Member section upload functionality

It is strongly recommended to apply the below naming convention. It follows the chronological sequence: reporting reason, upload date, MIC, memberID, timestamp, data format. Trading participants can use another file name and this file name is created automatically.

Example:

RTS2420211027XETRGDBXX20211027103159.csv

Field	Meaning	Comment
[0-9A-Z]{5}	Service name	RTS24
[0-9]{8}	Upload Date	YYYYMMDD
[XETR, XFRA, XEUR]{4}	MIC	XEUR, XETR, XFRA
[0-9A-Z]{5}	Member ID	ABCLO

¹⁸ Annex II of Commission Delegated Regulation (EU) 2017/590 and ESMA70-1861941480-56, p.50

[0-9]{4}[0-9]{2}[0-9]{2}[0-9]{2}[0-9]{2}[0-9]{2}	Timestamp	YYYYMMDDhhmmss
[0-9A-Z]{3}	File type	.CSV

3.3.4.1.2 Common Upload Engine (CUE) upload functionality

The naming convention must be applied. It follows the chronological sequence: environmentID, service name, memberID, upload date, MIC, file type.

Please note that the file name must be in capital letters completely.

Example:

88EXTREFDAABCLO20210216XETR.CSV

Field	Meaning	Comment
[0-9]{2}	Environment ID	88 for Prod 89 for Simu
[0-9A-Z]{8}	Service name	EXTREFDA
[0-9A-Z]{5}	Member ID	ABCLO
[0-9]{8}	Upload Date	YYYYMMDD
[0-9A-Z]{4}	MIC	XEUR, XETR, XFRA
[0-9A-Z]{3}	File type	.CSV

3.3.4.2 Upload file structure and format

The upload file is a CSV file, i.e. comma separated (not semicolon). The file format has to be ASCII and the file size is limited to 5 megabyte.

Table: Example file structure

ParticipantID	MIC	StatusIndicator	ValidFromDate	ShortCodeID	ClassificationRule	NationalIDCountryCode	NationalIDPriority	ClientLongValue
GDBXX	XETR	N	2021-09-18	123125	N	AT	1	19900415EMMA#WATSO
GDBXX	XETR	M	2021-09-18	12315	N	ER	2	19860119LUAM#ALEME
GDBXX	XETR	D	2021-09-18	421123	N	ES	1	99111222M
GDBXX	XETR	N	2021-09-18	15612	N	US	2	19900401JOHN#DOE##
GDBXX	XETR	D	2021-09-18	85123	L			5493004PP58SUE3G8M27
GDBXX	XETR	N	2021-09-18	4	N	DE	1	19670709MAX##MUSTE
GDBXX	XETR	M	2021-09-18	1467	N	CZ	3	19830115ELLA#CENLA
PLEASE NOTE: one file per MIC and memberID (XETR, XFRA or XEUR)								
PLEASE NOTE: header specification (case sensitive) has to be applied otherwise the file will be rejected								

Sample files are available on the webpages under the following paths:

Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting

Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data

Please note that the short code fields are not permitted to have leading zeros, e.g. “00012345” or be a stand-alone “0”.

Data record examples of certain attributes

If you intend to use the industry standard short codes, please upload in the respective upload mapping file the following data records:

Aggregated
GDBXX,XETR,N,2018-01-17,1,,,,AGGR

Pending allocation
GDBXX,XETR,N,2018-01-17,2,,,,PNAL

NORE
GDBXX,XETR,N,2018-01-17,3,,,,NORE

3.3.4.3 Field description

1. Participant specific fields

ParticipantID and MIC are validated for permission, whether the trading participant is permitted to upload data for the MIC codes.

- “ParticipantID”
The participant ID is the trading participants five-digit memberID. Valid values: [A-Z], mandatory length: {5}.
- MIC
The MIC code is the four-digit operating MIC of the trading venues. Valid values: [XETR, XFRA, XEUR], mandatory length: {4}.

XETR	Xetra
XFRA	Börse Frankfurt and Börse Frankfurt Certificates
XEUR	Eurex

An upload file must be provided per MIC, i.e. all data records contained in a file have to have the same MIC.

2. Data record specific fields

- “StatusIndicator”
The status indicator is a one-digit value and provides the status of the data record. Valid values: [DMN], mandatory length: {1}.

N	New short code registration
M	Modification of an already registered short code
D	Deletion of a registered short code

Please note: Short code registrations must be unique and consistent over time. Hence, a registered short code record is allowed to be changed only if the long code changed e.g. the change of the CONCAT due to marriage.

- “ValidFromDate”

The valid from date provides the date the short code registration shall be valid. Date format is YYYY-MM-DD with the following valid values [] and mandatory length {}: [0-9]{4}-[0-9]{2}-[0-9]{2}. The date must be the last business day (for corrections of missing errors on trading day t (error code 1)) or equal or greater the upload date.

Please note: Short code registrations must be unique and consistent over time. Hence, a registered short code must be assigned uniquely to a long code over time. Only if a short code is used for the first time, it is permitted to register this short code on the day of the usage or latest by the end of the following trading day (for corrections of missing errors (error code 1)).

- “ShortCodeID”

The short code ID holds the numerical value of a short code. Valid values: [0-9], minimum and maximum length: {1,20}.

Please note: A stand-alone zero and leading zeros are not permitted.

- “ClassificationRule”

The classification rule is the indicator whether the long code is a national ID of a natural person or a legal entity identifier (LEI) of a legal person. Valid values: [L and N], mandatory length: {1}.

L	Legal person
N	Natural person

This field is only applicable if field “ClientLongValue” holds data of a natural person or an LEI. This field shall be left blank for the registration of the ESMA values: AGGR, PNAL, NORE.

- “NationalIDCountryCode”

The national ID country code provides the two-digit country code. Valid values: [A-Z], mandatory length: {2}. This field is only applicable if field "Classification rule" contains an "N" for natural person. If field "Classification rule" contains an L, leave this field (NationalIDCountryCode) blank. This field shall be left blank for the registration of the ESMA values: AGGR, PNAL, NORE.

Please note: Follow the ESMA defined long codes (see chapter 7).

- “NationalIDPriority”

The national ID priority provides the one-digit priority per country code. Valid values: [123], mandatory length: {1}. This field is only applicable if field "Classification rule" holds an "N" for natural person. If field "Classification rule" holds an L for a legal person, leave this field (NationalIDPriority) blank. This field shall be left blank for the registration of the ESMA values: AGGR, PNAL, NORE.

Please note: Follow the ESMA defined long codes (see chapter 7).

- “ClientLongValue”

The client long value holds the long code. Valid values: [0-9, A-Z, a-z, #], minimum and maximum length: {4,35}. The long code can be a national ID, an LEI or the ESMA pre-defined values "AGGR", "PNAL" and "NORE". The LEI is a 20-character alphanumeric value. Besides the field length, the value is checked against the GLEIF database.

Please note: Follow the ESMA defined long codes (see chapter 7) and LEI standard.

3.3.4.4 Validations

3.3.4.4.1 CUE validations

For CUE validations please refer to “CUE validation and file specification Short code and algoID” document under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
- Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data

3.3.4.4.2 Member section validations

1. Structure

The mapping file of RTS 24 shall have a CSV structure, commas will be used as separator, not semicolons. The structure is validated.

2. Validation of reported member and market

Based on the assigned markets and member IDs of the technical user, it will be verified for each record, if the uploading user is permitted to report. If “ParticipantID” and “MIC” (has to match the MIC for the whole upload file) in all records are assigned to the user, the next validations are performed. Otherwise, an error message will be returned, informing also about the first record in which the error occurred (e.g. “Member ID not allowed in line 231”, “Upload rejected” or “Market (MIC) not allowed for user. Upload rejected”).

Error messages:

- Member ID invalid in market
- Environment not supported
- MIC is initial
- Missing Environment
- Missing Filename
- No Portal User
- No Member ID
- Combination not allowed on this System

General checks

For each record the length of all fields will be validated. The fields “NationalID Country Code” and “National ID Priority” are mandatory if the field Classification Rule is “N”. If the Classification Rule is not filled, i.e. empty, the “Client Long value” can obtain the values “PNAL” or “AGGR”. If all records meet the field format requirements, the next validations will be performed. Otherwise, an error message will be returned, informing about the first record, which is erroneous (e.g. “Wrong format in field “Short Code in line 12. Upload rejected” or “Wrong file format. Upload rejected”).

Check short codes for uniqueness

Every short code is only allowed once per upload file. If a duplicate short code is encountered, an error message will be returned, informing also about the record in which the duplicate occurred (e.g. “Duplicate Short Code in line 242. Upload rejected”)

Validation of LEIs

The format of LEIs (Classification rule = L) and National IDs (Classification rule = N) will be validated. If empty fields for National IDs are encountered, the file will be rejected. Other validation errors (e.g. 6 digits numerical vs. 8 digits alphanumerical) will be reported as warnings.

For LEIs, the length and format (20, alphanumeric) will be checked.

If all IDs are successfully validated, the upload file will be accepted. Otherwise, an error message will be returned, informing the member about the first record in which the error occurred (e.g. “Invalid LEI in line 34. Upload rejected”).

National ID validation logic

In order to validate the National IDs upon ESMA request, the “National ID country code” and “National ID Priority” are needed. Using this information, the system determines the National ID of the respective country and priority according to the ESMA requirements (please refer to chapter 7) and accordingly the format of the input.

Error Messages upload functionality in the member section

Validation Errors/Warnings:

- No value for field MIC
 - Invalid value for field MIC
 - Market (MIC) not allowed for user
 - No value for field Status Indicator
 - Invalid value for field Status Indicator
 - No value for field Valid From Date
 - Wrong format for field Valid From Date
 - Invalid value for field Valid From Date
 - No value for field Short Code ID
 - Wrong format for field Short Code ID
 - Invalid value for field Short Code ID
 - Duplicate Short code
 - Invalid value for field Classification Rule
 - No value for field National ID Country Code
 - Invalid value for field National ID Country Code
 - No value for field National ID Priority
 - Wrong format for field National ID Priority
 - Invalid value for field National ID Priority
 - No value for field Client Long Value
 - Wrong format for field Client Long Value
-

- Invalid value for field Client Long Value
- Invalid LEI
- Invalid email address
- Invalid File structure

Examples:

- If the file is uploaded successfully, then the participant will receive the messageCode = 0 and the number of processed rows will be sent back:

```
{
  "messageCode":0,
  "processedLines":2,
  "~unique-id~":"0",
  "messages":[],
  "class":"com.dbag.upload.service.dto.ResponseUploadService"
}
```

- If the file is NOT uploaded successfully, then the participant will receive the messageCode = -1 (processedLines=0) and the error message will contain:

```
{
  "messageCode":-1,
  "processedLines":0,
  "~unique-id~":"0",
  "messages":[
    {
      "messageText":"Member ID invalid in market",
      "~unique-id~":"1",
      "class":"com.dbag.upload.service.dto.Message",
      "messageType":"Error"
    }
  ],
  "class":"com.dbag.upload.service.dto.ResponseUploadService"
}
```

3.3.4.4.3 Validations in the data warehouse

Validations are applied on file type, structure, and format. The fields are validated according to the valid values and length (see chapter 3.3.4.2 and 3.3.4.3), the database and the orderbook data. For the extensive validation of LEIs please see below. Errors are added to the TR160 error report with the respective error code. Valid short/long code combinations are added to the TR161 overview report, i.e. the database.

LEI validation

If a trading participant uploads an LEI as a long code, the following validations are applied.

In a first step the LEI is checked against the permitted length of 20 digits alphanumeric. If this check fails, the short/long code combination is rejected. If the check was positive, the LEI is checked against the GLEIF.ORG database as a second step. If the LEI exists, the LEI registration status is checked in a third step. Please find the registration status values¹⁹ and related results of the validation below.

¹⁹ ESMA65-8-2594_ANNEX_1_MIFIR_TRANSACTION_REPORTING_VALIDATION_RULES.XLSX and LEI Common Data File format V2.1 FINAL V2.1 2017-03-21

Registration status	Description	Result
PENDING_VALIDATION	An application for an LEI that has been submitted and which is being processed and validated.	Reject
ISSUED	An LEI Registration that has been validated and issued, and which identifies an entity that was an operating legal entity as of the last update.	Registration successful
DUPLICATE	An LEI Registration that has been determined to be a duplicate registration of the same legal entity as another LEI Registration; the DUPLICATE status is assigned to the non-surviving registration (i.e. the LEI that should no longer be used).	Reject
LAPSED	An LEI registration that has not been renewed by the NextRenewalDate and is not known by public sources to have ceased operation.	Registration successful and generation of an error in TR160 as a warning
MERGED	An LEI registration for an entity that has been merged into another legal entity, such that this legal entity no longer exists as an operating entity.	Reject
RETIRED	An LEI registration for an entity that has ceased operation, without having been merged into another entity.	Reject
ANNULLED	An LEI registration that was marked as erroneous or invalid after it was issued	Reject
CANCELLED	An LEI registration that was abandoned prior to issuance of an LEI	Reject
TRANSFERRED	An LEI registration that has been transferred to a different LOU as the managing LOU.	Reject
PENDING_TRANSFER	An LEI registration that has been requested to be transferred to another LOU. The request is being processed at the sending LOU.	Registration successful and generation of an error in TR160 as a warning
PENDING_ARCHIVAL	An LEI registration is about to be transferred to a different LOU, after which its registration status will revert to a non-pending status.	Registration successful and generation of an error in TR160 as a warning

Error code description

Please find explanations to the errors below, for errors of “invalid” values please refer to the chapter 3.3.4.3.

Error code	Explanation
Error code 1	Client long value is missing: The short code used in trading was not registered with a long code.
Error code 2	Duplicate short/long code combination in database: The short/long code combination was registered already. The data record will be rejected.
Error code 5	Duplicate record submitted on the same business date: The short/long code combination was submitted already on the same date. The data record will be rejected.
Error code 6	Invalid Short Code ID
Error code 7	ParticipantID not assigned: The memberID is not admitted for that MIC code. The data record will be rejected.
Error code 9	Invalid uploadFile format
Error code 10	Invalid value in the field Participant ID
Error code 11	Invalid value in field MIC
Error code 12	Invalid value in field Status Indicator
Error code 13	Invalid value in field Valid from date
Error code 14	Invalid value in field Classification rule
Error code 15	Invalid value in field National ID Country Code
Error code 16	Invalid value in field National ID Priority
Error code 17	Invalid value in field Client long value
Error code 18	Invalid LEI format for Client long value
Error code 25	Client long value already registered: The long code (LEI, national identifier, ESMA value) are registered already. Short/long code combinations have to be unique, for further information please refer to chapter 3.3.3.
Error code 98	Complete upload File rejected: The file format, structure or the file name is incorrect.

Error related rejects of data records are identified using the report field “transactionIdentifier” containing the value 99999999999999.

Error related warnings of data records are identified using the report field “transactionIdentifier” containing the value 99999999999998.

Files are validated one by one, starting with the oldest file first (timestamp sequence).

Please refer to the common report engine (CRE) to retrieve the reports and find more information on the TR160 and TR161 report structure in the XML report manual under the following path:

- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10.0 >> Reports
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

3.3.4.5 Reports

3.3.4.5.1 TR160 short code error report

The TR160 short code error report is processed in the overnight batch of trading day t and provided to the trading participant on the CRE the consecutive morning on t+1. This report contains errors occurred during trading day t, either during the upload or the trading.

Errors during the upload are for instance the provision of an LEI as long code, which do not fulfill the mandatory length of 20 characters. Hence, this data record would be rejected with error code 18 (invalid LEI format for Client long value).

Errors detected for trading data are missing short codes, i.e. the used short code in the order submission was not registered with a long code on the day of the order submission. This error is reported with error code 1 (client long value is missing).

TR160 report fields

1. Transaction identifier

This field contains the transaction identifier. For on exchange orders, it contains the “exchangeOrderId” and for TES trades, it contains the “tesId”. In case an error is detected in the short/long code upload file without a relation to an order/quote, either 9999999999999999 for rejects, or 9999999999999998 for warnings are displayed. The format is alphanumeric 20 digits.

2. Type of origin

This field contains the information whether the error stems from an on-, or off-exchange order/quote. The format is alphanumeric 1 digit. Valid values [0,1] {1}. 0 = T7 Matching Engine, 1 = TES.

3. Short Code Id

The field contains the numeric short code the error was triggered by.

4. Short code source

This field contains for the error 1 (Client long value is missing) the information from which field in the order/quote the short code stems from. Either Client ID or Execution ID or Investment ID.

5. Error description

This field contains the error message. For further information about the errors please refer to chapter 3.3.4.4.3).

6. Upload file

This field provides the name of the upload file, the error stems from.

7. Row number

This field provides the row number of the upload file where the error occurred.

8. Ts field

This field provides the information of the field in the trading system in which the error occurred.

3.3.4.5.2 TR161 short code overview report

The TR161 short code overview report is processed in the overnight batch of trading day t and provided to the trading participant on the CRE the consecutive morning on t+1. This report contains short/long code combinations which are valid on trading day t and for future days.

TR161 report fields

1. Date uploaded

This field provides the date when the valid short/long code combination was uploaded by the trading participant.

2. Short Code Id

The field contains the numeric short code, which was registered.

3. Long Value

This field provides the value of the long code. The long code can be a national ID, an LEI, the ESMA values AGGR, PNAL, NORE.

4. Classification rule

This field provides the type of the long code, i.e. "N" for national ID, "L" for LEI, or leave this field empty for the ESMA values AGGR, PNAL, NORE.

5. Valid from

This field provides the "valid from" date of the short/long code combination.

6. Valid to

This field provides the date the short/long code combination was terminated. If the short/long code combination is still valid, this field remains empty.

7. Status Indicator

This field provides the status of the short/long code combination, i.e. "N" for new registration, "M" for modified registration and "D" for a deleted/terminated registration.

3.3.4.5.3 TR166 short code final error report

The TR166 short code final error report is a daily report and provides trading participants with final error results of t-2. It contains the missing short/long code registrations of trading day t, the corrections performed on the following trading day t+1 and the final missing short/long code registrations for trading day t. The report is provided to the trading participant on CRE.

For instance, a report of 27 October 2021 ("rptPrntEffDat" = 27 October 2021) was provided to the trading participant on the 28 October 2021 after the batch-run. This report contains a) the missing short/long code registrations of trading day 26 October 2021 (trading day t), b) the corrections made on the following trading day 27 October (trading day t+1) and hence c) the total of final missing registrations after the deadline t+1 23:30 CE(S)T, i.e. 28 October (t+2).

TR166 report fields

1. ShortCodesDayt0

This field contains the count of used short codes of the field "ClientID", "Execution Decision" and "Investment Decision" in order and quote messages of day t.

2. ShortCodesMissingDayt0

This field contains the count of missing short codes of the fields "ClientID", "Execution Decision" and "Investment Decision" of day t, which were not decrypted with a long code latest by trading day t.

3. ShortCodesCorrDayt1

This field contains the count of uploaded short codes for the fields "ClientID", "Execution Decision" and "Investment Decision" on day t+1 in order to correct used but not decrypted short codes for those fields on day t.

4. FinalMissing

This field contains the count of missing short codes of the fields "ClientID", "Execution Decision" and "Investment Decision" of day t, which were neither decrypted with a long code on trading day t nor t+1 eob.

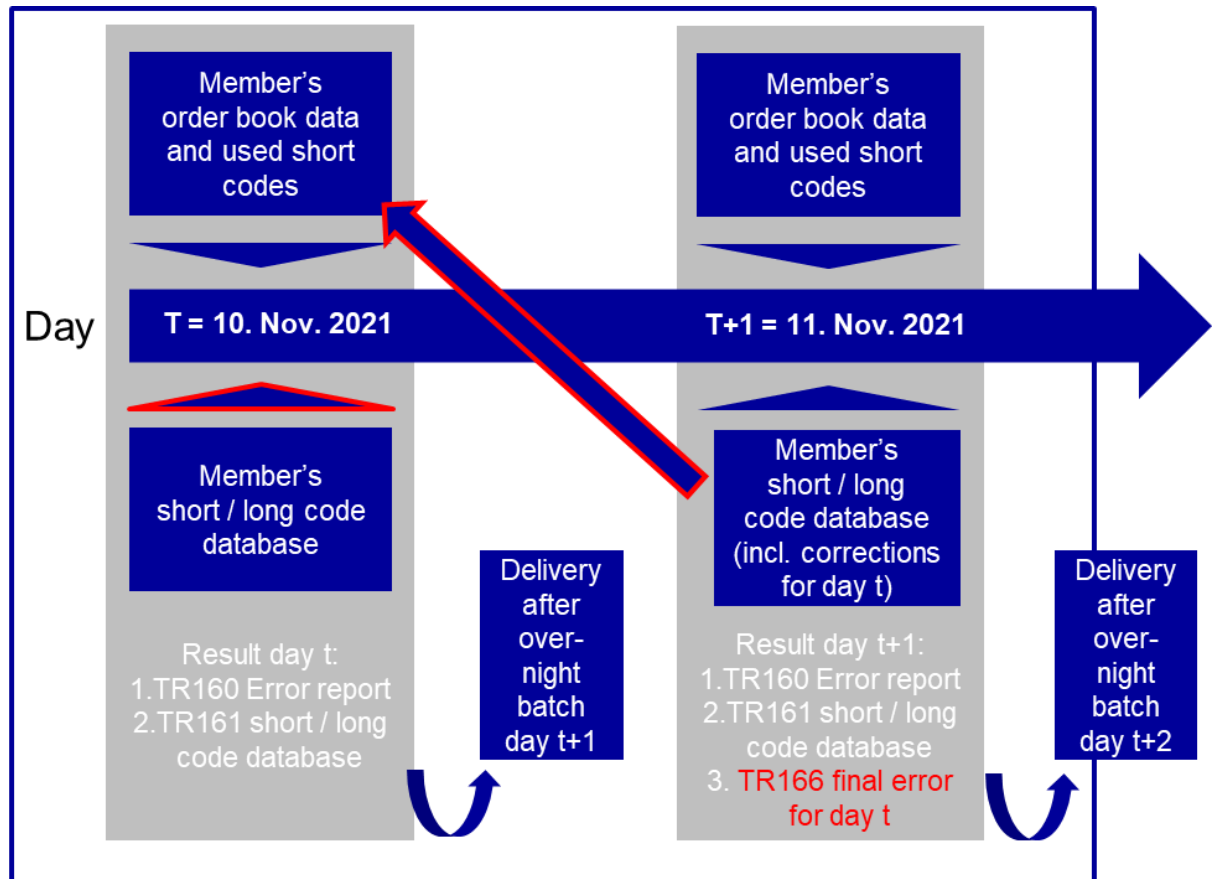
3.3.5 Short code management

Trading participants prepare the short/long code combinations they intend to use according to the requirements in chapters 3.3.3 and 3.3.4. We strongly recommend registering short/long code combinations before usage. However, short codes used in an order for the first time may be registered with the corresponding long code latest by the end of the trading day following the trading day of the order submission. In contrast, it is not required that the long code assigned to a short code is already registered with the trading venue prior to first usage of the short code. For example: The trading participant has a client John Doe, with a long code "19811025JOHN#DOE##". The trading participant registers that long code with a short code "123". Hence, short code "123" must be used for John Doe starting with the first order submission for this client and must be used for every consecutive future order submission. Please refer to the exemption to the rule in chapter 3.3.3.2.

Following the preparation, the upload shall take place. Please use the upload functionalities, available from 00:00 until 23:30 CE(S)T on trading days. The immediate feedback of the upload functionalities must be monitored, and corrections must be performed if needed. Uploads after business hours are possible. However, please note that files received after the cut-off time of 23:30 CE(S)T are processed with the overnight batch on the consecutive trading day. Please note that you have to change the file name date to the consecutive trading date. Validations in the data warehouse are applied on file format, structure, and content and in addition the upload data is validated against the database and the order book data. Results are provided in the reports TR160 and TR161 after the overnight batch and provided to the trading participants on the CRE. Trading participants shall especially monitor the error report TR160 and perform corrections if necessary.

If a missing registration was not resolved on the consecutive trading day (t+1) of the trading day (day t) the short code was used for the first time, a final error is reported in the TR166 final error report. This report serves as basis for sanctioning of missing registrations.

Processing of the TR166 final error report:



3.3.6 Monitoring and sanctioning

3.3.6.1 Missing short/long code registration

Short codes used in an order for the first time may be decrypted into the corresponding long codes latest by the end of the trading day (trading day t+1) following the trading day of the order submission (trading day t). In contrast, it is not required that the long code assigned to a short code is already registered with the Exchange prior to first usage of the short code.

However, the usage of a short code, which is not registered with a respective long code after t+1 is not permitted and is going to be handed over to the sanctions committee. Missing registrations of the trading day t are reported to the trading participant in the error report TR160 with error code 1. The missing registration can be performed until 23:30 CE(S)T of the consecutive trading day (t+1). Please note that a correction data record must have "valid from" filled with the date of trading day t in order to be considered a correction of the missing short/long code registration. After the deadline of t+1 23:30 CE(S)T the used short codes of trading day t are again validated against the short code registrations, which were valid on that day and the TR166 final missing report is generated. This report contains the missing short/long code registrations of trading day t, which were not corrected on trading day t+1. These final missing registrations are handed over to the sanctions committee.

Please note that every short/long code combination must be registered, if you intend to use it in future otherwise a missing error will be generated ever consecutive day of usage.

3.3.6.2 Uniqueness violation

A short code has to be assigned uniquely to a long code. However, the assignment of more than one short code to a long code is not permitted as the uniqueness is not met. The short/long code registrations that violate the uniqueness requirement are reported to the trading participant in the short code error report TR160 with error code 25 (client long value already registered). Please refer to the exemption to this rule in chapter 3.3.3.2. Violations of the uniqueness are monitored and handed over to the sanctions committee.

3.3.7 Special: New upload functionality common upload engine (CUE)

With T7 release 10.0 on 22 November 2021 the SFTP server will be replaced by the CUE. Therefore, trading participants using the current SFTP server are required to migrate their upload processes to CUE with T7 Release 10.0.

A parallel operation of CUE and the current SFTP server will be granted to trading participants facing technical issues migrating the upload processes from SFTP to CUE from 22 November 2021 until 17 December 2021 eob.

Technical setup

The technical connection to the CUE has to be established in the same manner as to the CRE system. Deutsche Börse Group's Member Section is used for the respective account management, i.e. set up the technical connection to the CUE and CRE. Please find the CUE and CRE user manuals under the following paths:

- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10 >> Reports
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

Upload processing

The CUE folder "mifid" has to be used for the upload of short/long code files (CUE >> memberID >> P >> mifid >> upload). Trading participants shall upload their CSV file(s) per memberID and MIC combination between 00:00 and 23:30 CE(S)T on trading days. Uploads after 00:00 the following day (also on non-trading days) are feasible. However, the date in the file name must be changed to the next trading day (not calendar day). The upload file is limited to 5MB and 25,000 data rows. The approx. validation time for files with 25,000 rows is 8 minutes. We recommend to upload files with a smaller size.

Please note: For non-MiFIR trading participants, the CUE "mifid" folder set up for the transaction reporting according to Article 26 (5) MiFIR shall also be used for the short code upload files.

1. Provision of the upload file to the trading venues

Please access CUE and the "mifid" folder. Upload your files into the "UPLOAD" folder. Once processed, CUE sets up a "trading date" folder and adds the response.

File successfully passed the CUE validations

- A file which passed the CUE validation rules successfully and hence was transferred to the data warehouse for further validation and processing is named e.g.
-

- 88EXTREFDAGDBXX20211014XETR.CSV_UPLOAD_SUCCESSFUL
- No further action is required during the upload process. However, **please note** that the CUE validation is an initial validation and the complete validations against orderbook data and the database are performed in the overnight batch in the data warehouse. The error report TR160 and the overview report TR161 will be provided to the trading participant in the CRE's respective market folders (XEUR, XETR, XFRA).

Numerous files successfully passed the CUE validations

- A trading participant can upload up to 100 files per day, CUE will add a version number to the file, e.g. 88EXTREFDAGDBXX20211014XETR-**V01**.CSV_UPLOAD_SUCCESSFUL

File did not pass the CUE validations

- A file which was rejected, i.e. did not pass the validation rules is named e.g.:
88EXTREFDAGDBXX20211014XETR.CSV_VALIDATION_FAILED
- This is provided with the log file, e.g. 88EXTREFDAGDBXX20211014XETR.LOG to the "trading date" folder. Trading participants can download the log file and must correct the upload file considering the reported errors.
- Further action is required as the full file is rejected. If errors were detected in the file, the erroneous records can either be cut off the file and the file can be uploaded again, followed by another upload file containing the corrected records. Or all errors can be corrected, and the full file can be uploaded again.
- The log file provides trading participants with the information about the row, the erroneous value submitted and the permitted values and field length. Please refer to the "CUE validation and file specification Short code and algoID" document (link below) for a comprehensive overview of error messages and respective validations.

File upload after cut-off time

In case the cut-off time 23:30 CE(S)T was not met, and the file is uploaded after 00:00 CE(S)T, the file is rejected with the error message, e.g.

88EXTREFDAGDBXX20211014XETR.CSV_WRONG_UPLOAD_DATE and provided to your "trading date" folder. Please change the date of your file to the next business day (not calendar day) and upload it again.

If an upload was made after the cut off time, the upload file will be processed in the overnight batch of the following trading day.

Other reject reasons for files

Reject reasons are:

- Header specification is not met
 - Validation of one record was not successful
 - wrong record format
 - wrong file format
-

- empty file"

An example error message for a wrong file type:

88EXTREFDAGDBXX20211014XETR.CSV_WRONG_FILE_TYPE

“CUE validation and file specification Short code and algoID” document

For further details on this process and the validations please refer to “CUE validation and file specification Short code and algoID” document under the following paths:

Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting

Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data

2. Retrieval of the report files

Please note that the CUE validation is an initial validation and the complete validations against format, structure, orderbook data and the database are performed in the overnight batch in the data warehouse (see chapter 3.3.4.4.3). The error report TR160, the overview report TR161 and the final missing report TR166 (see chapter 3.3.4.5) will be provided to the trading participant in the CRE’s respective market folders (XEUR, XETR, XFRA).

4 Algo IDs

4.1 Regulatory requirement for identification

Under Art. 25(2) of MiFIR and CDR 2017/580 FSE and Eurex shall keep at the disposal of the competent authority the relevant data to identify the algorithm that is used within the trading participant of the trading venue primarily responsible for the investment decision or primarily responsible for the execution of a transaction. The algoID is therefore one of the options for the population of field 4 “Investment decision within firm” or field 5 “Execution within firm” of CDR 2017/580, Annex Table 2 and field 57 of CDR 2017/590 or field 59 of CDR 2017/590.

4.2 Regulatory requirement for certification and testing

Algo IDs are assigned by the trading participant to their algorithms that comply with the requirements of Art. 48(6) of MiFID II and Art. 10 of CDR 2017/584. In accordance with these requirements, FSE and Eurex request all trading participants to test their algorithms in a testing environment before the algorithms are used in production in order to avoid market disturbance.

FSE and Eurex offer their participants the possibility to test their algorithms in the prevailing software production version in the standard simulation environment and in cloud simulation. Additionally, the Cloud Simulation offers the new release version.

Please refer to the Xetra and Eurex websites under the following paths for details on the Cloud Simulation service:

- Xetra.com >> Technology >> T7 >> Cloud Simulation
- Eurex.com >> Technology >> Eurex T7 Cloud Simulation

Participants must certify that all deployed algorithms have successfully passed the testing requirements imposed by MiFID II / MiFIR. The algorithm certificates should contain the algoID of the algorithm that was tested, and the name of the trading participant who would like to have the algorithm registered with FSE and Eurex. Certificates for new algorithms must be uploaded prior to usage.

4.2.1 Technical fields in the trading system T7

Trading participants can insert algoIDs in the T7 fields execution decision and investment decision. The fields are available in the order and quote messages as 8-byte 20 digits numeric fields.

- Execution ID (for the MiFID field “Execution within firm”)
- Investment ID (for the MiFID field “Investment decision within firm”)

As the fields “execution decision” and “investment decision” can contain an algoID or a short code, there are respective qualifier fields. Please set the qualifier fields to the following values²⁰ in order to identify the numeric values in “execution decision” and “investment decision” as algo (22) or short code (24):

- Execution Qualifier value **22 = Algo** or **24 = Human**
- Investment Qualifier value **22 = Algo** or **24 = Human**

The submission of the executionID is mandatory, and the investmentID is optional as the field has to be blank in case the client of the trading participant took the investment decision. However, if a trading

²⁰ Values might differ with respect to different interfaces, e.g. ETI or FIX.

participant uses an algorithm in the execution and / or investment decision it is mandatory to fill in the T7 fields accordingly. Please find more information on all scenarios in 3.3.2.

4.2.2 AlgoID fields and attributes

Please find an overview of all scenarios by account (ESMA trading capacity) and related flagging of the fields below and the detailed information on the fields in this chapter.

Proprietary accounts (trading capacity DEAL) and riskless principal account (trading capacity MTCH)

Flagging options	Execution Decision	Execution Qualifier	Investment Decision	Investment Qualifier	Client ID
Execution and investment decision taken by an algo.	Algo ID	T7: 22 (for an algo)	Algo ID	T7: 22 (for an algo)	-
Execution decision taken by an algo. Investment decision taken by the trader or another person within the member firm.	Algo ID	T7: 22 (for an algo)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	-
Execution decision taken by the trader or another person within the member firm. Investment decision taken by an algo.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Algo ID	T7: 22 (for an algo)	-

Agent account (Trading capacity AOTC), client ID mandatory

Flagging options	Execution Decision	Execution Qualifier	Investment Decision	Investment Qualifier	Client ID
Execution and investment decision taken by an algo.	Algo ID	T7: 22 (for an algo)	Algo ID	T7: 22 (for an algo)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by an algo. Investment decision taken by the trader or another person within the member firm.	Algo ID	T7: 22 (for an algo)	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by the trader or another person within the member firm. Investment decision taken by an algo.	Short code for the National ID of the trader/person	T7: 24 (for a natural person)	Algo ID	T7: 22 (for an algo)	Short code for LEI or National ID, PNAL or AGGR
Execution decision taken by an algo and the investment decision not taken within the investment firm.	Algo ID	T7: 22 (for an algo)	Empty	Empty	Short code for LEI or National ID, PNAL or AGGR

4.2.2.1 Execution ID

The executionID is mandatory in every order and quote, irrespectively of the account (e.g. A-, R-, P-, M-account). As by ESMA definition²¹ this decision is taken “within the member firm”, there is no option to identify a client in this field. If a client took this decision, ESMA defines this field to be populated with the ESMA value “NORE”. Hence, the trading participant must populate this field with a short code for this long code “NORE”.

However, if this decision is taken within the trading participant’s firm then an algoID or a short code for the natural person within the firm must be populated.

²¹ Commission Delegated Regulation (CDR) 2017/580 Art. 2, (CDR) 2017/590 Art. 8, ESMA Guidelines (ESMA/2016/1452) chapters 5.12.

The algoID used in the “execution decision” must be registered with the trading venue. **The algoID must be registered prior to usage.**²²

It is in the trading participant’s responsibility to determine the decision maker (e.g. algorithm, natural person or client) who is primarily responsible for the execution in accordance with their governance model.

4.2.2.2 Investment ID

The investmentID is mandatory in every order and quote, if trading in proprietary accounts e.g. P-, M-account. As by ESMA definition²³ this decision is taken “within the member firm”, there is no option to identify a client in this field. If a client took this decision, ESMA defines this field to be empty²⁴. For this purpose, please leave the qualifier field empty too.

However, if this decision is taken within the trading participant’s firm then an algoID or a short code for the natural person within the firm must be populated.

The algoID used in the investment decision must be registered with the trading venue. The algoID must be registered prior to usage.²⁵

It is in the trading participant’s responsibility to determine the decision maker (e.g. algorithm, natural person or client) who is primarily responsible in accordance with their governance model.

4.2.3 Data requirements of algoIDs

4.2.3.1 Uniqueness and consistency

The algoID has to be unique and consistent over time, i.e. the algoID needs to be registered and hence certified as tested since the first day of usage.

For example: The trading participant has an algorithm tested and certified by registration. The algoID is “789”. Hence, algoID “789” must be used for this algorithm starting with the first order submission and has to be used for every consecutive future order submission.

4.2.3.2 Exemption

There is no exemption.

4.2.3.3 Modification

The algoID registration is only allowed to be modified for an update of the responsible person.

²² FWB exchange rules article 40 (xetra.com >> Rules & Regulations); Eurex exchange rules article 63 (eurex.com >> Rules & Regs >> Eurex Rules & Regulations)

²³ Commission Delegated Regulation (CDR) 2017/580 Art. 2, (CDR) 2017/590 Art. 8, ESMA Guidelines (ESMA/2016/1452) chapters 5.11.

²⁴ ESMA/2016/1452, chapter 6.2.

²⁵ FWB exchange rules article 40 (xetra.com >> Rules & Regulations); Eurex exchange rules article 63 (eurex.com >> Rules & Regs >> Eurex Rules & Regulations)

4.2.3.4 Deletion

Deletions of algoIDs are not permitted.

4.2.4 Registration of algoIDs

Once the trading participant has assigned a numerical ID to his algorithm (algoID) and tested the algo successfully, the algoID has to be certified, i.e. registered with the trading venue. The registration of the algoID has to be done prior to usage. An upload file has to be created and provided to the trading venues via an upload functionality.

The uploads shall take place on trading days between 00:00 and 23:30 CE(S)T. Uploads after 00:00 the following day are feasible. However, the date in the file name has to be changed to the next trading day (not calendar day).

There are two upload functionalities: one is available in the member section and another is available on the common upload engine (CUE). Both functionalities have a pre-validation tool installed, which applies validations on file structure and field length and provide immediate response. Those validations are preliminary, the full data validation is processed in the overnight batch and the results are available in the TR162 algo error report and the TR163 algo overview reports.

Please note: if the upload file contains an error, the file is rejected during the upload process completely and a log file indicating the error is provided to the trading participant. The member section functionality responds via email and the CUE will provide a log file retrievable from the respective “trading date” CUE folder. During the overnight batch the data is validated again and checked against the database. Only separate data records might be rejected during the overnight processing dependent on the error reason and provided to the trading participant in the TR162 algo error report.

Please find user manuals on the webpages under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10.0 >> Reports
- Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

4.2.4.1 Upload file naming convention

4.2.4.1.1 Member section upload functionality

It is strongly recommended to apply the below naming convention. It follows the chronological sequence: reporting reason, upload date, MIC, memberID, timestamp, data format. Trading participants can use another file name and this file name is created automatically.

Example:

ALGO20211027XETRGDBXX20211027103159.csv

Field	Meaning	Comment
[0-9A-Z]{5}	Service name	ALGO
[0-9]{8}	Upload Date	YYYYMMDD
[XETR, XFRA, XEUR]{4}	MIC	XEUR, XETR, XFRA
[0-9A-Z]{5}	Member ID	ABCLO
[0-9]{4}[0-9]{2}[0-9]{2}[0-9]{2}[0-9]{2}	Timestamp	YYYYMMDDhhmmss
[0-9A-Z]{3}	File type	.CSV

4.2.4.1.2 Common Upload Engine (CUE) upload functionality

The naming convention must be applied. It follows the chronological sequence: environmentID, service name, memberID, upload date, MIC, file type.

Please note that the file name must be in capital letters completely.

Example:

88EXTAGO1AABCLO20210216XETR.CSV

Field	Meaning	Comment
[0-9]{2}	Environment ID	88 for Prod 89 for Simu
[0-9A-Z]{8}	Service name	EXTALGO1
[0-9A-Z]{5}	Member ID	ABCLO
[0-9]{8}	Upload Date	YYYYMMDD
[0-9A-Z]{4}	MIC	XEUR, XETR, XFRA
[0-9A-Z]{3}	File type	.CSV

4.2.4.2 Upload file structure and format

The upload file is a CSV file, i.e. comma separated (not semicolon). The file format has to be ASCII and the file size is limited to 5 megabyte.

Table: Example file structure

UploadDate	ValidFrom	AlgoID	ResponsibleID
2021-09-18	2021-09-18	2578	jon.doe@abcbank.com
2021-09-18	2021-09-18	135123	jon.doe@abcbank.com

PLEASE NOTE: one file per MIC and memberID (XETR, XFRA or XEUR)

PLEASE NOTE: header specification (case sensitive) has to be applied otherwise the file will be rejected.

Sample files are available on the webpages under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
- Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data

Data record example

2021-09-27,2021-09-27,123456789012345,Tim.mustermann@testbank.com

4.2.4.3 Field description

1. Participant specific fields

- “ResponsibleID”

The responsible ID is the email address of the responsible person or team of the trading participant. Valid values and mandatory length: [A-Za-z]{1}[A-Za-z0-9\.\!#\\$\%&\'*\+,\-|=|\?^_|\}~}{0,62}[A-Za-z0-9]{1}@[A-Za-z]{1}[A-Za-z0-9\.\-]{0,253}[A-Za-z0-9]{1}\.[A-Za-z]{2,4}

2. Data record specific fields

- “UploadDate”

The "UploadDate" provides the date the algoID registration is uploaded. Valid values and mandatory length: [0-9]{4}-[0-9]{2}-[0-9]{2}

- “ValidFromDate”

The valid from date provides the date the algoID registration shall be valid. Date format is YYYY-MM-DD with the following valid values [] and mandatory length {}: [0-9]{4}-[0-9]{2}-[0-9]{2}. The date must be greater the upload date as algoIDs have to be certified and registered before usage.

- “AlgoID”

This field holds the numerical value of an algoID with the following valid values [] and mandatory length {}: [0-9]{1,20}

4.2.4.4 Validations

4.2.4.4.1 CUE validations

For CUE validations please refer to “CUE validation and file specification Short code and algoID” document under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
- Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data

4.2.4.4.2 Member section validations

1. Structure

The mapping file of AlgoIDs shall have a CSV structure, commas will be used as separator, not semicolons. The structure is validated. Error message: “Invalid File structure”.

2. Validation of reported member and market

Based on the assigned markets and member IDs of the technical user, it will be verified for each record, if the uploading user is permitted to report. If “ParticipantID” and “MIC” are assigned to the user, the next validations are performed. Otherwise, an error message will be returned, informing also about the first record in which the error occurred (e.g. “Upload rejected” or “Market (MIC) not allowed for user. Upload rejected”).

Error messages:

- Member ID invalid in market
- Environment not supported
- MIC is initial
- Missing Environment
- Missing Filename
- No Portal User
- No Member ID
- Combination not allowed on this System

General checks

For each record the length of all fields will be validated. If all records meet the field format requirements, the next validations will be performed. Otherwise, an error message will be returned, informing about the first record, which is erroneous (e.g. “Wrong format in field “UploadDate” in line 12. Upload rejected” or “Wrong file format. Upload rejected”).

Check algoIDs for uniqueness

Every algoID is only allowed once per upload file. If a duplicate is encountered, an error message will be returned, informing also about the record in which the duplicate occurred (e.g. “Duplicate algoID in line 242. Upload rejected”)

Error Messages upload functionality in the member section

Validation Errors/Warnings:

- Market (MIC) not allowed for user
- No value for field Valid From Date
- Wrong format for field Valid From Date
- Invalid value for field Valid From Date
- Invalid email address
- Invalid File structure

Examples:

- If the file is uploaded successfully, then the participant will receive the messageCode = 0 and the number of processed rows will be sent back:

```
{
  "messageCode":0,
  "processedLines":2,
  "~unique-id~":"0",
  "messages":[],
  "class":"com.dbag.upload.service.dto.ResponseUploadService"
}
```

- If the file is NOT uploaded successfully, then the participant will receive the messageCode = -1 (processedLines=0) and the error message will contain:

```
{
  "messageCode":-1,
  "processedLines":0,
  "~unique-id~":"0",
  "messages":[
    {
      "messageText":"Member ID invalid in market",
      "~unique-id~":"1",
      "class":"com.dbag.upload.service.dto.Message",
      "messageType":"Error"
    }
  ],
  "class":"com.dbag.upload.service.dto.ResponseUploadService"
}
```

4.2.4.4.3 Validations in the data warehouse

Validations are applied on file type, structure, and format. The fields are validated according to the valid values and length (see chapter 4.2.4.2 and 4.2.4.3), the database and the orderbook data. Errors are added to the TR162 error report with the respective error code. Valid algoIDs are added to the TR163 overview report, i.e. the database.

Error code description

Please find explanations to the errors below, for errors of “invalid” values please refer to the chapter 4.2.4.3.

Error code	Explanation
Error code 1	Client long value is missing: The algoID used in trading was not registered.
Error code 2	Duplicate short/long code combination in database: The algoID was registered already. The data record will be rejected.
Error code 5	Duplicate record submitted on the same business date: The algoID was submitted already on the same date. The data record will be rejected.
Error code 6	Invalid Short Code ID
Error code 7	ParticipantID not assigned: The memberID is not admitted for that MIC code. The data record will be rejected.
Error code 9	Invalid uploadFile format
Error code 10	Invalid value in the field Participant ID
Error code 13	Invalid value in field Valid from date
Error code 20	Invalid Algo ID
Error code 21	Invalid value in field upload date
Error code 22	Invalid value in field email address
Error code 98	Complete upload File rejected: The file format, structure or the file name is incorrect.

Error related rejects of data records are identified using the report field “transactionIdentifier” containing the value 999999999999.

Error related warnings of data records are identified using the report field “transactionIdentifier” containing the value 999999999998.

Files are validated one by one, starting with the oldest file first (timestamp sequence).

Please refer to the common report engine (CRE) in order to retrieve the reports and find more information on the TR162 and TR163 report structure in the XML report manual under the following path:

- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10.0 >> Reports
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

4.2.4.5 Reports

4.2.4.5.1 TR162 algo error report

The TR162 algo error report is processed in the overnight batch of trading day t and provided to the trading participant on the CRE the consecutive morning on t+1. This report contains errors occurred during trading day t, either during the upload or the trading.

Errors during the upload are for instance the provision of an algoID which is alphanumerical. Hence, this data record would be rejected with error code 20 (invalid Algo ID).

Errors detected for trading data are missing algoIDs, i.e. the algoID in the order submission was not registered on the day of the order submission. This error is reported with error code 1 (client long value is missing).

TR162 report fields

1. Date Uploaded

This field contains the date when the valid mapping was uploaded by the participant.

2. AlgoID

This field contains the unique numeric representation for an algorithm.

3. Error description

This field contains the error message. For further information about the errors please refer to chapter (4.2.4.4.3).

6. Upload file

This field provides the name of the upload file, the error stems from.

7. Row number

This field provides the row number of the upload file where the error occurred.

8. Ts field

This field provides the information of the field in the trading system in which the error occurred.

4.2.4.5.2 TR163 algo overview report

The TR163 algo overview report is processed in the overnight batch of trading day t and provided to the trading participant on the CRE the consecutive morning on t+1. This report contains algoIDs which are valid on trading day t and for future days.

TR163 report fields

1. Date uploaded

This field provides the date when the algoID was uploaded by the trading participant.

2. Valid from

This field provides the “valid from” date of the short/long code combination.

3. AlgoID

This field contains the unique numeric representation for an algorithm.

4. Responsible ID

The field contains the email address of the person responsible for the testing and certification of the algorithm.

4.2.5 AlgoID management

Trading participants prepare the algoIDs they intend to use according to the requirements in chapters 4.2.3 and 4.2.4. Please note that an algoID has to be registered before usage. AlgoIDs used in an order / quote for the first time CANNOT be corrected afterwards. Hence, a correction on the following day as for short codes is not permitted. Hence, the error report TR162 serves as basis for sanctioning of missing registrations.

Following the preparation, the upload shall take place. Please use the upload functionalities, available from 00:00 until 23:30 CE(S)T on trading days. The immediate feedback of the upload functionalities must be monitored, and corrections must be performed if needed. Uploads after business hours are possible. However, please note that files received after the cut-off time are processed with the overnight batch on the consecutive trading day. Validations in the data warehouse are applied on file format, structure and content and in addition the upload data is validated against the database and order book data. Results are provided in the reports TR162 and TR163 after the overnight batch and provided to the trading participants on the CRE. Trading participants shall especially monitor the error report TR162 and register their algoIDs if necessary.

4.2.6 Monitoring and sanctioning

AlgoIDs used in an order / quote must be registered prior to the day of usage. If a missing algoID was detected and reported in the TR162 report it is going to be handed over to the sanctions committee.

4.2.7 Special: New upload functionality common upload engine (CUE)

With T7 release 10.0 on 22 November 2021 the SFTP server will be replaced by the CUE. Therefore, trading participants using the current SFTP server are required to migrate their upload processes to CUE with T7 Release 10.0.

A parallel operation of CUE and the current SFTP server will be granted to trading participants facing technical issues migrating the upload processes from SFTP to CUE from 22 November 2021 until 17 December 2021 eob.

Technical setup

The technical connection to the CUE has to be established in the same manner as to the CRE system. Deutsche Börse Group's member section is used for the respective account management, i.e. set up the technical connection to the CUE and CRE. Please find the CUE and CRE user manuals under the following paths:

- Xetra.com >> Technology >> T7 trading architecture >> System documentation >> Release 10 >> Reports
- Eurex.com >> Support >> Initiatives & Releases >> T7 Release 10.0 >> Reports

Upload processing

The CUE folder "mifid" has to be used for the upload of algoID files. Trading participants shall upload their CSV file(s) per memberID and MIC combination between 00:00 and 23:30 CE(S)T on trading days. Uploads after 00:00 the following day (also on non-trading days) are feasible. However, the date in the file name must be changed to the next trading day (not calendar day). The upload file is limited to 5MB and 25,000 data rows. The approx. validation time for files with 25,000 rows is 8 minutes. We recommend uploading files with a smaller size.

Please note: For non-MiFIR trading participants, the CUE "mifid" folder set up for the transaction reporting according to Article 26 (5) MiFIR shall also be used for the short code upload files.

1. Provision of the upload file to the trading venue

Please access CUE and the "mifid" folder. Upload your files into the "UPLOAD" folder. Once processed, CUE sets up a "trading date" folder and adds the response.

File successfully passed the CUE validations

- A file which passed the CUE validation rules successfully and hence was transferred to the data warehouse for further validation and processing is named e.g.
88EXTALGO1DBXX20211014XETR.CSV_UPLOAD_SUCCESSFUL
- No further action is required during the upload process. However, **please note** that the CUE validation is an initial validation and the complete validations against orderbook data and the database are performed in the overnight batch in the data warehouse. The error report TR162 and the overview report TR163 will be provided to the trading participant in the CRE's respective market folders (XEUR, XETR, XFRA).

Numerous files successfully passed the CUE validations

- A trading participant can upload up to 100 files per day, CUE will add a version number to the file, e.g. 88EXTALGO1GDBXX20211014XETR-**V01**.CSV_UPLOAD_SUCCESSFUL

File did not pass the CUE validations

- A file which was rejected, i.e. did not pass the validation rules is named e.g.:
-

88EXTALGO1GDBXX20211014XETR.CSV_VALIDATION_FAILED

- This is provided with the log file, e.g. 88EXTALGO1GDBXX20211014XETR.LOG to the "trading date" folder. Trading participants can download the log file and must correct the upload file using the reported errors.
- Further action is required as the full file is rejected. If errors were detected in the file, the erroneous records can either be cut off the file and the file can be uploaded again, followed by another upload file containing the corrected records. Or all errors can be corrected, and the full file can be uploaded again.
- The log file provides trading participants with the information about the row, the erroneous value submitted and the permitted values and field length. Please refer to the "CUE validation and file specification Short code and algoID" document (link below) for a comprehensive overview of error messages and respective validations.

File upload after cut-off time

In case the cut-off time 23:30 CE(S)T was not met, and the file is uploaded after 00:00 CE(S)T, the file is rejected with the error message, e.g.

88EXTALGO1GDBXX20211014XETR.CSV_WRONG_UPLOAD_DATE and provided to your "trading date" folder. Please change the date of your file name to the next trading day (not calendar day) and upload it again.

If an upload was made after the cut off time, the upload file will be processed in the overnight batch of the following trading day.

Other reject reasons for files

Reject reasons are:

- Header specification is not met
- Validation of one record was not successful
- wrong record format
- wrong file format
- empty file"

An example error message for a wrong file type:

88EXTALGO1GDBXX20211014XETR.CSV_WRONG_FILE_TYPE

"CUE validation and file specification Short code and algoID" document

For further details on this process and the validations please refer to "CUE validation and file specification Short code and algoID" document under the following paths:

- Xetra.com >> Newsroom >> Current regulatory topics >> MiFID II and MiFIR >> Reference data reporting
 - Eurex.com >> Rules & Regs >> MiFID II/MiFIR >> Client & Member Reference Data
-

2.Retrieval of the report files

Please note that the CUE validation is an initial validation and the complete validations against format, structure, orderbook data and the database are performed in the overnight batch in the data warehouse (see chapter 4.2.4.4.3). The algo error report TR162, the algo overview report TR163 will be provided to the trading participant in the CRE's respective market folders (XEUR, XETR, XFRA).

5 Direct Market Access

Eurex and FSE are offering DMA to their members. Sponsored access is not permitted in Germany, hence not provided. DMA requirements are pursuant to the ESMA texts²⁶ and embedded in the exchange rules of the trading venues, Eurex exchange rules art. 61, FSE exchange rules art. 38.

5.1 Eurex solution

Please find the details on the Eurex DEA solution here:

Eurex.com >> resources >> regulations >> eu-regulations >> MiFID II/MiFIR >> dea-dma

5.2 FSE solution

The member needs to register as DMA provider. After registration the member can use the DMA field in the order request.

5.2.1 Registration

Trading participants offering DMA to their clients need to register as DMA provider. A registration is necessary with:

1. FWB

- Registration form available on the webpage in the usual admission section and on FWB's MiFID webpage under Xetra.com >> Newsroom >> Current regulatory topics >> MIFID II and MIFIR >> Publications >> Direct market access, to be handed in to the member's KAM (Key Account Management Continental Europe)

2. BaFIN

- BaFIN requires a notification, the form is available on the BaFIN webpage and has to be submitted via email at deanzeige@bafin.de.
BaFIN: https://www.bafin.de/SharedDocs/Downloads/EN/Formular/WA/fo_20180102_Formular_DEA.html

3. Exchange Supervisory Authority, State of Hesse

- Exchange Supervisory Authority, State of Hesse requires a notification, the form is available on the Hesse webpage and has to be submitted via email at reporting@wirtschaft.hessen.de.
State of Hesse: <https://service.hessen.de/html/9496.htm>

5.2.2 Technical submission

With T7 release 8.0 Eurex and Xetra introduced a DMA flag. It is part of the order requests. The DMA field "orderorigination" shall contain "5" in order to mark an order as DMA.

The DMA flag is going to be reported in the TC810 "Daily trade confirmation" report and the TC540 "Daily order maintenance" report.

The DMA flag is not available for TES LIS and TES EnLight.

The DMA flag is not available in the Xetra GUI.

²⁶ MiFID II, Directive 2014/65/EU

Delegated Acts, Commission Delegated Regulation 2017/565

RTS 6, Commission Delegated Regulation 2017/589

RTS 7, Commission Delegated Regulation 2017/584

ESMA guidelines, ESMA/2016/145

ESMA Q&As, ESMA70-872942901-38

Please note: The DMA flag can only be set to 'true' if sent via the agent-, or riskless-account. However, if members have not registered as DMA provider at FWB, an order with the DMA flag set 'true' will be rejected.

5.2.3 DMA flagging

Trading participants shall apply the ESMA stipulated flagging of DMA order flow:

- Execution ID: short code for 'NORE'
- Investment ID: empty
- ClientID: short code for the client (LEI or National ID)

The FSE technical necessities have to be set:

- Execution ID qualifier: 24 for human
- Investment ID qualifier: empty

In addition:

- Registered via FWB DMA form and approved by FWB
 - Orders sent via Agent-account or Riskless-Principal-Account
 - DMA flag: 'true'
-

6 Other MiFID II / MiFIR affected reports

6.1 Order-to-Trade Ratio (OTR) report

Content: Based on MiFID II, Article 48 (6), (12 b) and the related Commission Delegated Regulation (EU) 2017/566, the regulator defines an OTR regime based on two OTR measures and a mandatory calculation methodology. There is an OTR based on numbers and another OTR based on volumes. Both have to be calculated for each financial instrument traded on a business day.

Format: XML and TXT

Data source: FSE report TR101; Eurex TR100

The report provides each member with his daily values of both OTR measures per ISIN. In addition, the calculation details for each OTR measure are provided. The OTR values are provided per OTR instrument group and ISIN for one trading day.

For more information please refer to

- Eurex: Technology > T7 Trading Architecture > System Documentation>XML report manual; in the member section for FSE
- FSE: Newsroom > Current regulatory topics > MiFID II and MiFIR and the report structure under: Xetra > Technology > T7 trading architecture > System documentation > Release XY > Reports

6.2 Message Rate report

Content: MiFID II, Article 4 (40c) characterizes high-frequency algorithmic trading technique by certain criteria. One criterion is a high message intraday rate. The related Article 19 of DELEGATED REGULATION (EU) .../... of 25.4.2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council as regards organisational requirements and operating conditions for investment firms and defined terms for the purposes of that Directive (referred to as Delegated Regulation of 25.4.2016) defines granular details of a “high message intraday rate”, counting methodology and report requirements.

The message rate report is implemented in order to provide trading participants with their rates.

Format: XML and TXT

Data source: FSE report TR901; Eurex TR902

For more information, please refer to the XML report manual on the Eurex website (Technology > T7 Trading Architecture > System Documentation) or on the FSE webpage (Technology > T7 trading architecture > System documentation > Release XY > Reports)

7 Excursus: Participant reference data

Participant reference data are the legal entity identifier (legal entity), the NationalID (natural person), and the algoID.

7.1 Legal Entity identification codes of Participants

Regulatory requirement

Under Art. 25(2) MiFIR and CDR 2017/580 FSE and Eurex shall keep at the disposal of the competent authority the relevant data to identify the trading participant of the trading venue. For this the trading venues are required to provide the Legal Entity Identifier (LEI) of the firm as defined in Field 1 “Identification of the entity which submitted the order” of CDR 2017/580 Annex Table 2, which is the same requirement of Field 4 “Executing entity identification code” of Table 2 of Annex I, CDR 2017/590.

General format

The LEI, as defined in ISO 17442, contains 20 alphanumerical characters. LEIs are used to uniquely identify legally distinct entities that engage in financial transactions. LEIs are issued by "Local Operating Units" (LOUs) of the Global LEI System. For more information on how to obtain an LEI, please visit <http://www.leiportal.org/> and <http://www.leiportal.org/>.

Submission method

The Central Coordinator of each Xetra or Eurex trading participant can provide and update the participant LEI in the Member Section on the Xetra website www.xetra.com under “User Administration”.

Data renewal

LEIs must be renewed by LOUs annually, Participants shall assure the renewal of their LEIs.

7.2 National ID of traders of Participants

Regulatory requirement

Under Art. 25(2) of MiFIR and CDR 2017/580, FSE and Eurex shall keep at the disposal of the competent authority the relevant data to identify the person within the trading participant firm of the trading venue who is primarily responsible for the investment decision or primarily responsible for the execution of the transaction.

The NationalID of trading participants’ admitted traders is one of the options for the population of Field 4 “Investment decision within firm” or Field 5 “Execution within firm” of CDR 2017/580, Annex Table 2.

General format – National ID

The NationalID requires joining the country code standard ISO 3166-1 of the nationality of the person with the identifier listed in the following table 1 (identical to table 1 of Annex II of CDR 2017/590), based on the nationality of the person.

▪ CONCAT

One of the required identifiers is the CONCAT ID, which is a concatenation of the following elements, in the following order:

- a) the date of birth of the person, using format YYYYMMDD
 - b) the first five characters of the first name and
-

- c) the first five characters of the surname
For more details on CONCAT, please see ESMA/2016/1452, Chapter 5.5.

▪ **Identifier priority**

The highest priority identifier available to the trading participants must be used. In case the first priority information is not available, other identifiers can be used strictly in accordance with the priority levels provided in the table. For traders from the Finland, e.g., trading participants must submit to trading venue the nationality (FI) and the FI personal identity code (first priority). If the national insurance number is not available, the nationality (FI) in combination with the CONCAT ID (second priority) can be submitted.

▪ **Traders with more than one nationality**

Where a trader has more than one nationality of different European Economic Area (EEA) countries, the country code of the first nationality when sorted alphabetically by its ISO 3166-1 alpha-2 code and the applicable identifier related to the first nationality as determined shall be used. Where a natural person has an EEA and a non-EEA nationality, the identifier related to the EEA nationality as determined shall be used.

The table below gives an overview of the priorities of national IDs identifiers according regulatory requirements:

ISO 3166-1 alpha-2	Country name	1 st priority	2 nd priority	3 rd priority
AT	Austria	CONCAT		
BE	Belgium	Belgian National Number (Numéro de registre national – Rijksregisternummer)	CONCAT	
BG	Bulgaria	Bulgarian Personal Number	CONCAT	
CY	Cyprus	National Passport Number	CONCAT	
CZ	Czech Republic	National identification number (Rodné číslo)	Passport Number	CONCAT
DE	Germany	CONCAT		
DK	Denmark	Personal identity code 10 digits alphanumeric: DDMMYYXXXX	CONCAT	
EE	Estonia	Estonian Personal Identification Code (Isikukood)		
ES	Spain	Tax identification number (Código de identificación fiscal)		
FI	Finland	Personal identity code	CONCAT	
FR	France	CONCAT		

ISO 3166-1 alpha-2	Country name	1 st priority	2 nd priority	3 rd priority
GR	Greece	10 DSS digit investor share	CONCAT	
HR	Croatia	Personal Identification Number (OIB – Osobni identifikacijski broj)	CONCAT	
HU	Hungary	CONCAT		
IE	Ireland	CONCAT		
IS	Iceland	Personal Identity Code (Kennitala)		
IT	Italy	Fiscal code (Codice fiscale)		
LI	Liechtenstein	National Passport Number	National Identity Card Number	CONCAT
LT	Lithuania	Personal code (Asmens kodas)	National Passport Number	CONCAT
LU	Luxembourg	CONCAT		
LV	Latvia	Personal code (Personas kods)	CONCAT	
MT	Malta	National Identification Number	National Passport Number	
NL	Netherlands	National Passport Number	National identity card number	CONCAT
NO	Norway	11-digit personal id (Foedselsnummer)	CONCAT	
PL	Poland	National Identification Number (PESEL)	Tax Number (Numer identyfikacyjno datkowej)	
PT	Portugal	Tax number (Número de Identificação Fiscal)	National Passport Number	CONCAT
RO	Romania	National Identification Number (Cod Numeric Personal)	National Passport Number	CONCAT
SE	Sweden	Personal identity number	CONCAT	
SI	Slovenia	Personal Identification Number (EMŠO: Enotna Matična Številka Občana)	CONCAT	

ISO 3166-1 alpha-2	Country name	1st priority	2nd priority	3rd priority
SK	Slovakia	Personal number (Rodné číslo)	National Passport Number	CONCAT
All other countries		National Passport Number	CONCAT	

Table 2: National client identifiers for natural persons (CDR 2017/590, Annex II)

▪ **Identifier format**

The format of valid national identifiers are determined by ESMA. These are used as validation rules for the long codes.

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
AT	Austria	CONCAT		
BE	Belgium	Belgian National Number (Numéro de registre national – Rijksregisternummer)	11 numerical digits where the first 6 are the date of birth (YYMMDD), the next 3 are an ordering number (uneven for men, even for women) and the last 2 a check digit.	National ID
		CONCAT		
BG	Bulgaria	Bulgarian Personal Number	It consists of 10 digits. The first 6 are the date of birth (YYMMDD). The next 3 digits have information about the area in Bulgaria and the order of birth, and the ninth digit is even for a boy and odd for a girl. Seventh and eighth are randomly generated according to the city. The tenth digit is a check digit.	Passport, National ID, Driving Licence
		CONCAT		
CY	Cyprus	National Passport Number	The number for passports issued before 13/12/2010 consists of the character 'E' followed by 6 digits i.e E123456. Biometric passports issued after 13/12/2010 have a number that starts with the character 'K', followed by 8 digits. i.e K12345678	The passport is issued by the Civil Registry Department of the Ministry of Interior.
		CONCAT		
CZ	Czech Republic	National identification number (Rodné číslo)	It is a nine or ten-digit number in the format of YYXXDD/SSSC, where XX=MM (month of birth) for male, i.e. numbers 01-12, and XX=MM+50 (or exceptionally XX=MM+70) for female, i.e. numbers 51-62 (or 71-82). For example, a number 785723 representing the first six digits is assigned to a woman born on 23rd of July 1978. SSS is a serial number distinguishing persons born on the same date and C is a check digit. For people born before January 1st, 1954 the number is without this check digit - YYXXDD/SSS (i.e. the nine-digit case). If the national identification number has ten digits, then the tenth (check) digit is the first nine digits	It is assigned to a person shortly after birth by the birth registry and does not change throughout the life of a person. It is printed on a birth certificate (paper), national ID card

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
			<p>modulo 11, unless this modulo is 10. In that case the tenth digit is 0. Therefore, the ten-digit number is usually divisible by 11.</p> <p>It should be noted that the special character “/” is just a separator and should be omitted in transaction reports.</p>	(laminated or plastic card), drivers licence (laminated or plastic card), and possibly other documents.
		Passport Number	It is usually an eight-digit number, but it can be longer.	The passport is issued by the Ministry of the Interior of the Czech Republic.
		CONCAT		
DE	Germany	CONCAT		
DK	Denmark	Personal identity code 10 digits alphanumeric: DDMMYYXXXX	The Danish personal ID is called the CPR number. It is 10 digits and does only consist of numbers [0-9]. The first 6 numbers represent the date of birth in “DDMMYY” format.	The CPR number is used for unique personal identification can be found in documents such as passports, health care cards and driver's licenses.
		CONCAT		
EE	Estonia	Estonian Personal Identification Code (Isikukood)	It consists of 11 digits, generally given without any whitespace or other delimiters. The form is GYYMMDDSSC, where G shows sex and century of birth (odd number male, even number female, 1-2 19th century, 3-4 20th century, 5-6 21st century), SSS is a serial number separating persons born on the same date and C a checksum.	Passport, National ID, Driving license
ES	Spain	Tax identification number (Código de identificación fiscal)	Code composed by 9 characters: 8 numbers and a control letter. Letters I, Ñ, O, and U are not used. It looks like 99111222M. Particular cases: - L + 7 numbers + control letter for non-resident Spaniards unless they have DNI, where then it would look like as above.	This code is in the National Identification Card (document nacional de identidad – DNI – or carnet de identidad), but it can

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
			- K + 7 numbers + control letter for Spaniards under 14 unless they have DNI, where then it would look like as above.	also be found in the driving license or the social security card.
FI	Finland	Personal identity code	It consists of eleven characters of the form DDMMYYCZZZQ, where DDMMYY is the date of birth, C the century sign, ZZZ the individual number and Q the control character (checksum). The sign for the century is either + (1800–1899), - (1900–1999), or A (2000–2099). The individual number ZZZ is odd for males and even for females and for people born in Finland its range is 002-899 (larger numbers may be used in special cases). An example of a valid code is 311280-888Y.	Passport, National ID
		CONCAT		
FR	France	CONCAT		
GR	Greece	10 DSS digit investor share	It consists of 10 digits and it is linked with the personal details of the investor (name, identity number, passport number, tax registration number).	Investor share is the account of the investor in the DSS which is operated by the Central Securities Depository S.A.
		CONCAT		
HR	Croatia	Personal Identification Number (OIB – Osobni identifikacijski broj)	OIB consists of 11 digits. 10 digits are chosen randomly and do not contain information related to the holder of OIB. One digit is a control number. OIB is unique, unchangeable and unrepeatable. It is a permanent identification code of every Croatian citizen and legal person with head office in the Republic of Croatia.	Source is National Identity Card or Internet engines but it can also be found on other personal documents.
		CONCAT		
HU	Hungary	CONCAT		
IE	Ireland	CONCAT		
IS	Iceland	Personal Identity Code (Kennitala)	Ten-digit number, where the first six are the date of birth (DDMMYY).	Passport, National ID, Driving Licence

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
IT	Italy	Fiscal code (Codice fiscale)	The code is unique, widespread and consistent over time and it is a combination of 16 letters and numbers (3 letters for the last name + 3 letters for the name + 5 letters/numbers for the date of birth (with different combinations to distinguish between men and women) + 4 letters/numbers for the place of birth + 1 check letter/number). Example: RSS MRO 62B25 E205 Y	It can be printed on a paper card (old version) or on the National Health Service magnetic card (newer ones).
LI	Liechtenstein	National Passport Number	The Code is a combination of 1 letter and 5 numbers. For example, R00536	Passport
		National Identity Card Number	The Code of the national ID-Card is a combination of 2 letters and 8 numbers. For example, ID022143586	The number changes with each renewed ID-Card
		CONCAT		
LT	Lithuania	Personal code (Asmens kodas)	It is 11 digits long. Format GYYMMDDNNNC, where G is the gender (4 or 6 for women; 3 or 5 for men); YYMMDD is the date of birth; NNN - serial number; C - check digit.	Passport, National ID, Driving license
		National Passport Number	Passport or Identity card number - 8-digit number	Passport, National ID
		CONCAT		
LU	Luxembourg	CONCAT		
LV	Latvia	Personal code (Personas kods)	11 numerical digits of the form DDMMYY-CZZZZ where the first 6 are the date of birth (DDMMYY) and the C is century sign (where the digit "0" is the 19th century, the number "1" - the 20th century, "2" - 21th century). Or 11 numerical digits selected randomly, where the first six digits may be separated from other digits with a hyphen	Identification documents for Republic of Latvia - National ID and/or passport
		CONCAT		
MT	Malta	National Identification Number	8 characters: 7 numerical digits and 1 alphabetic letter (M, G, A, P, L, H, B, Z) Each ID Card has a unique Identity Number, based on a combination of: (a) a sequential registration number in the relevant year; (b) the relevant year number (2 digits), where the year is the year	National ID

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
			<p>of birth (for Malta-born persons) or year of registration (for non-Malta born persons), and (c) a letter designating the geographic origin of the person. The definition of the letters is given by the Public Registry Department on the registration of a birth</p> <p>A = applicable to Foreigners in possession of an eRes Card B = applicable to Maltese births registered in the 1800+ G= applicable to Gozitan births registered in the 1900+ H= applicable to Gozitan births registered in the 2000+ L= applicable to Maltese births registered in the 2000+ M= applicable to Maltese births registered in the 1900+ P= applicable to Maltese citizens who are unable to obtain their original birth certificate from their country of birth to be registered in Malta. Z= applicable to Gozitan births registered in the 1800+</p>	
		National Passport Number	7 Numerical digits	Civil Registration Directorate
NL	Netherlands	National Passport Number	9 characters of which: Position 1 and 2: [A-Z] except for "O"; Position 3 - 8: [A-Z] [0-9] except for "O"; Position 9: [0-9].	Dutch National Passport
		National identity card number	9 characters of which: Position 1 and 2: [A-Z] except for "O"; Position 3 - 8: [A-Z] [0-9] except for "O"; Position 9: [0-9]. The character "O" is not allowed while "0" is.	Dutch National ID
		CONCAT		
NO	Norway	11-digit personal id (Foedselsnummer)	The id is 11 digits long, where the first 6 represent birthdate in "ddmmyy" format.	Includes but not limited to: passport, national id card, driving license
		CONCAT		
PL	Poland	National Identification Number (PESEL)	11 NUMERIC. ID for natural persons is assigned to a person shortly after birth by the birth registry and does not change throughout the life of a person.	Birth Certificate, National ID, Driving License
		Tax Number (Numer)	10 NUMERIC. It is used by investment firms for the tax identification of a client.	Tax form PIT8 which is sent yearly by an IF on

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
		identyfikacjipodatkovéj)		behalf of its client to the tax office.
PT	Portugal	Tax number (Número de Identificação Fiscal)	Code composed by one block of 9 digits (999999999). The first eight digits are sequential and the last one is used as a control: 1 to 3: Personal, 3 is not yet assigned; 45: Natural person. The initial digits "45" correspond to non-residents citizens that only get in Portuguese territory income subject to withholding at source; 5: legal person required to register in the National People Collective Registry; 6: The agencies of the Central Government, Regional or Local administration; 70, 74 and 75: Used to identify different types of Heritage Indivisible; 71: Collective non-residents subject to withholding at source definitively; 72: Investment Funds; 77: officious allocation of taxable NIF (entities that do not require NIF on the official bodies (RNPC)); 78: officious assignment to non-residents covered by the proceeding VAT REFUND; 79: Exceptional rules - created in 98 exclusively to the Mundial Exposition (Expo 98); 8: "sole trader" (no longer used, is no longer valid); 90 and 91: Condos, Irregular Society and undivided inheritances; 98: Non-residents without permanent establishment; 99: Civil societies without legal personality.	
		National Passport Number	The passport of uniform and optical model issued before April 2018 consists of a notebook with 32 pages numbered, identified by one letter and six digits: Position 1: letter [A-Z] and Position 2 - 6: digits [0-9].	Portuguese National Passport

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
			The passport of uniform and optical model issued after April 2018 consists of a notebook with 32 (requested by normal travel) or 48 (requested by a frequent travel) pages numbered, identified by two letters and six digits: Position 1-2: letter [A-Z] and Position 3 - 8: digits [0-9].	
		CONCAT		
RO	Romania	National Identification Number (Cod Numeric Personal)	The Romanian National ID (Cod Numeric Personal, CNP) consists of 13 digits and is created by using the gender of the citizen and century (1 digit, 1/3/5/7 for men, 2/4/6/8 for women and 9 for foreign citizens), date of birth (6 digits, YYMMDD), the place of birth (2 digits), followed by a serial number (3 digits), and 1 control digit, at the end. The first digit encodes the person's gender as follows: 1 Male born between 1900 and 1999 2 Female born between 1900 and 1999 3 Male born between 1800 and 1899 4 Female born between 1800 and 1899 5 Male born after 2000 6 Female born after 2000 7 Male, foreign citizen, RO resident 8 Female, foreign citizen, RO resident 9 Foreign citizen	The CNP is a unique identifying number, assigned to each person at birth and is inscribed on Birth Certificate, Identity Card and Driving License.
		National Passport Number	Romanian Passport Number consist of 9 digits.	Romanian National Passport
		CONCAT		
SE	Sweden	Personal identity number	Personal identity number: 12 digits numerical in the format CCYYMMDDZZZQ CCYYMMDD is the date of birth, ZZZ the individual serial number, and Q is the control character (calculated with Luhn-algorithm). The individual number ZZZ is odd for males and even for females. CC is century, YY year, MM month and DD day.	Personal identity number is used for unique personal identification. This number, in its official 10

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
			NB! The 12 digits numerical format is used, as the official 10 digits numerical format of the personal identity number includes a separator (YYMMDD-ZZZQ or YYMMDD+ZZZQ if the person has turned 100) which severely complicates data processing and storage.	digits numerical format (i.e. excluding the CC for century and including a separator), is written on or into various personal documents such as passports, health care cards, and driver's licenses.
		CONCAT		
SI	Slovenia	Personal Identification Number (EMŠO: Enotna Matična Številka Občana)	<p>It consists of 13 digits. The first 7 numbers represent the date of birth of the person - DDMMYYYY. Digit 8 and 9 represent the number of a register where EMŠO was assigned:</p> <ul style="list-style-type: none"> • 10-19 – Bosnia and Hercegovina (if signed in before 18 February 1999) • 20-29 – Montenegro (if signed in before 18 February 1999) • 30-39 – Croatia (if signed in before 18 February 1999) • 40-49 – Macedonia (if signed in before 18 February 1999) • 50-59 – Slovenia (if signed in before 18 February 1999, if later number 50 is used) • 60-69 – (not in use) • 70-79 – Serbia (if signed in before 18 February 1999) • 80-89 – Autonomous Province of Vojvodina (if signed in before 18 February 1999) • 90-99 – Kosovo (if signed in before 18 February 1999)). <p>Digit 10, 11 and 12 are a combination of gender and serial number for persons, born on the same day (000-499 for male and 500-999 for female). Number 13 is a control number and is calculated by a special procedure, defined in Article 4 of the Regulation on the way of assigning the personal identification number (Nos. no. 8/99).</p>	Slovenian Personal Identity Card Slovenian National Passport
		CONCAT		

Country code	Country name	National client identifier	Format of the identifier	Potential source of the information
SK	Slovakia	Personal number (Rodné číslo)	The Personal Number consist of ten digits in the form YYMMDDCCCX. The first part is created from the date of birth (differently for male and female): YY - the last 2 digits of the year of birth; MM - month of birth for male (01 -12), month of birth plus 50 for female (51-62); DD - day of birth; CCC- number distinguishing persons born on the same date; X - check digit. The Person Number must be divisible by 11.	It is printed on a birth certificate (paper), national ID card (laminated or plastic card), drivers licence (laminated or plastic card), and possibly other documents.
		National Passport Number	It is issued in the format XXNNNNNNNN. It is a 9-digit unique code where XX are block letters and NNNNNNNN are numbers. It has a validity of 10 years.	Citizens can have two passports and this code can only be found on the first one.
		CONCAT		

Table 3: national client identifiers for natural persons (ESMA Questions and Answers on MiFIR data reporting, 25 May 2018 ESMA70-1861941480-56)



Country Codes ISO 3166-1 alpha 2 on the 2021-10-27	
Country code	Country
AD	Andorra
AE	United Arab Emirates (the)
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AU	Australia
AW	Aruba
AX	Åland Islands
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BF	Burkina Faso
BH	Bahrain
BI	Burundi
BJ	Benin
BL	Saint Barthélemy
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia (Plurinational State of)
BQ	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas (the)
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands (the)
CD	Congo (the Democratic Republic of the)
CF	Central African Republic (the)
CG	Congo (the)
CH	Switzerland
CI	Côte d'Ivoire

CK	Cook Islands (the)
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cabo Verde
CW	Curaçao
CX	Christmas Island
DJ	Djibouti
DM	Dominica
DO	Dominican Republic (the)
DZ	Algeria
EC	Ecuador
EG	Egypt
EH	Western Sahara*
ER	Eritrea
ET	Ethiopia
FJ	Fiji
FK	Falkland Islands (the) [Malvinas]
FM	Micronesia (Federated States of)
FO	Faroe Islands (the)
GA	Gabon
GB	United Kingdom of Great Britain and Northern Ireland (the)
GD	Grenada
GE	Georgia
GF	French Guiana
GG	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia (the)
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands

HN	Honduras
HT	Haiti
ID	Indonesia
IL	Israel
IM	Isle of Man
IN	India
IO	British Indian Ocean Territory (the)
IQ	Iraq
IR	Iran (Islamic Republic of)
JE	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros (the)
KN	Saint Kitts and Nevis
KP	Korea (the Democratic People's Republic of)
KR	Korea (the Republic of)
KW	Kuwait
KY	Cayman Islands (the)
KZ	Kazakhstan
LA	Lao People's Democratic Republic (the)
LB	Lebanon
LC	Saint Lucia
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova (the Republic of)
ME	Montenegro
MF	Saint Martin (French part)
MG	Madagascar
MH	Marshall Islands (the)
MK	North Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao

MP	Northern Mariana Islands (the)
MQ	Martinique
MR	Mauritania
MS	Montserrat
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger (the)
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines (the)
PK	Pakistan
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS	Palestine, State of
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RS	Serbia
RU	Russian Federation (the)
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan (the)
SG	Singapore

SH	Saint Helena, Ascension and Tristan da Cunha
SJ	Svalbard and Jan Mayen
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX	Sint Maarten (Dutch part)
SY	Syrian Arab Republic (the)
SZ	Eswatini
TC	Turks and Caicos Islands (the)
TD	Chad
TF	French Southern Territories (the)
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan (Province of China)
TZ	Tanzania, the United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands (the)
US	United States of America (the)
UY	Uruguay
UZ	Uzbekistan
VA	Holy See (the)
VC	Saint Vincent and the Grenadines
VE	Venezuela (Bolivarian Republic of)
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna

WS	Samoa
YE	Yemen
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe

Submission method

To maintain the information for an individual trader, Participants can log in to the Xetra or Eurex Member Section and select “Admissions & User IDs” to enter the information. Traders in admission need to provide their National ID during the admission process.

8 Enclosure

MiFID II:

DIRECTIVE 2014/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 May 2014 on markets in financial instruments and amending Directive 2002/92/EC and Directive 2011/61/EU

MiFIR:

REGULATION (EU) No 600/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 May 2014 on markets in financial instruments and amending Regulation (EU) No 648/2012

RTS 22:

COMMISSION DELEGATED REGULATION (EU) 2017/590 of 28 July 2016 supplementing Regulation (EU) No 600/2014 of the European Parliament and of the Council with regard to regulatory technical standards for the reporting of transactions to competent authorities

RTS 24:

COMMISSION DELEGATED REGULATION (EU) 2017/580 of 24 June 2016 supplementing Regulation (EU) No 600/2014 of the European Parliament and of the Council with regard to regulatory technical standards for the maintenance of relevant data relating to orders in financial instruments

ESMA guidelines:

ESMA/2016/1452 ESMA guidelines on Transaction reporting, order record keeping and clock synchronisation under MiFID II

ESMA Q&A:

ESMA Q&A on On MiFIR data reporting ESMA70-1861941480-56
