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TRAX[®]

A large, yellow, textured graphic element on the left side of the page. It has a repeating pattern of small, interlocking shapes, resembling a woven fabric or a mesh. The shape is a large, irregular polygon that fits into the overall layout of the page.

**Trax Report Technical Specification
CSV File Format**
Version 1.04

Trax Report Technical Specification CSV File Format

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1 OVERVIEW

1.1 Introduction

The Trax Report service provides a file based interface that allows clients to fulfil their regulatory reporting obligations under MiFID II.

The CSV file format has been created to provide clients with a choice of file submission formats.

The purpose of this guide is to:

- Provide an overview of the core components of the Trax Report service; and
- Describe the file flow and the message formats which enable customers to submit MiFID II transaction reports to the relevant National Competent Authority (NCA) through Trax Report.

This guide is updated for the following change that Trax will introduce during Q1 2020:

- The addition of a new optional field (CNMV Supplementary Reporting) to allow clients that are reporting to CNMV to identify their transactions as 'supplementary reporting' transactions.

This guide is also updated to reflect the following validation changes that were released to the production service earlier in 2020:

- Changes to allow back reporting where an LEI has subsequently Merged or Retired
- A minor change to the derivation of investment decision being 'within firm'.

Please refer to the Trax Connectivity Guide for further information on how to establish a connection with the Trax SFTP server for the exchange of regulatory transaction reporting and response files.

This guide does not cover the Trax Insight GUI application which allows clients to view the status of their transaction reporting submissions and manage exceptions.

Please note that this guide is applicable to clients of both Trax UK and Trax NL B.V. At the time of writing, the business rules and formats defined in this specification are applicable to transaction reporting within both the UK and EU jurisdictions should there be no transitional arrangements in place post Brexit.

1.2 Document Structure

This document is structured as follows:

- Section 2 provides an overview of the Trax Report service
- Section 3 provides an overview of the transaction reporting file flow
- Section 4 provides an overview of the file submission process
- Section 5 provides an overview of Trax Report responses
- Section 6 provides an overview of Status Update files
- Section 7 defines the format of the files sent by participant firms to Trax Report
- Section 8 defines the format of the Trax Report response files
- Section 9 covers the ISO standards and reference data sources validated by Trax
- Section 10 provides a mapping between the Trax flag conveying the meaning of a transaction as defined in Article 2 of RTS 22, and the relevant ESMA text.

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2 SERVICE OVERVIEW

2.1 Introduction

The purpose of this section is to highlight specific points you should consider when submitting transactions to the Trax Report ARM:

- Submission accounts
- Unique identifier for a transaction report
- Amending transaction reports
- Onward submission to the NCA
- Enrichment of transactions
- Filtering of non-reportable transactions
- User defined fields
- Reporting of instrument fields in a transaction report
- Transaction processing flow
- Transaction replay.

The following definitions shall apply:

- **Jurisdiction** The jurisdiction applicable to the NCA to which a transaction is reported
- **Trading Venue** A Regulated Market (RM), Multilateral Trading Facility (MTF) or Organised Trading Facility (OTF)

Trax will cater for an RM, MTF and OTF in different jurisdictions on the basis of the jurisdiction the client is reporting under. Note that EU Trading Venues are treated as UK Trading Venues for the UK jurisdiction from a transaction reporting perspective¹
- **SI** Systematic Internaliser

Trax will cater for an SI in different jurisdictions on the basis of the jurisdiction the client is reporting under
- **TOTV** Traded on a Trading Venue

Trax will cater for TOTV in different jurisdictions on the basis of the jurisdiction the client is reporting under. Note the scope of transaction reporting for the UK jurisdiction shall include instruments traded on EU Trading Venues
- **UTOTV** Underlying for the instrument is Traded on a Trading Venue
- **Instrument Reference Data system** ESMA FIRDS or an equivalent system operated by the FCA for the UK jurisdiction

¹ EU Trading Venues are not treated as UK Trading Venues for the UK jurisdiction in relation to Waiver Indicator; see Rejection Reason: E1120 in Section 7.4.2 below.

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2.2 Submission Accounts

A submission account segregates the flow of regulatory reporting data between your organisation and Trax. Typically, a submission account is:

- Linked to an SFTP Folder to support automated file based regulatory reporting flows; or
- Linked to a message connection to support automated message based regulatory reporting flows.

You can operate one or more submission accounts depending on how your organisation segregates reporting flows. One or more submission accounts can be linked to a single SFTP folder or message connection.

As part of the on-boarding process, you will need to define:

- the executing entities for which you will be submitting transactions
- the submission accounts under which you will submit transactions for those executing entities; and
- the service options (e.g. instrument eligibility) applicable to each submission account.

All submission accounts support manual submissions via screen based CSV download² or manual keying using the Trax Insight GUI application. A submission account does not have to be linked to an SFTP Folder or message connection if you only submit via CSV download.

Users should note that although a submission account linked to an SFTP folder will support manual submissions, Status Updates (see Sections 3 and 6) will not be returned to the SFTP folder for transactions submitted via CSV download or through manual keying in the Trax Insight GUI application.

2.3 Unique Identifier for a Transaction Report

ESMA requires transaction reports to be identified by the following fields (unique identification):

- Executing Entity Identification Code; and
- Transaction Reference Number.

Trax Report applies the same criteria to uniquely identify a transaction report on any transaction submission (see Section 2.4 for further details).

² Files submitted via CSV download must use the CSV format defined in this specification.

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2.4 Amending Transaction Reports

2.4.1 Overview

To modify the details of a transaction report previously submitted, you can either amend the report or cancel and resubmit the report depending on the workflows supported in your own systems.

If your systems do not support amendments, you will need to cancel and resubmit the report as follows:

- Submit a transaction with a Report Status of **CANC**. The transaction must include the Executing Entity Identification Code and Transaction Reference Number of the original transaction
- Submit a new transaction with a Report Status of **NEWM** with the amended details. Note that you can continue to use the same Transaction Reference Number on the new transaction (current ESMA guidelines allow the use of a cancel and new re-submission to effect the amendment of a submitted report).

If your systems support amendments, you should submit a transaction with a Report Status of **REPL**. The transaction must include the Executing Entity Identification Code and Transaction Reference Number of the original transaction. Trax Report will in turn, submit a cancel and a new re-submission to the relevant NCA to effect the amendment of the report (see Section 2.5 below).

2.4.2 Standard Lifecycle

When a transaction is submitted, Trax Report will check if a transaction with the same Executing Entity Identification Code and Transaction Report Reference already exists in its on-line database:

- A new transaction (**NEWM**) will be rejected if the transaction already exists and is not cancelled
- Cancel transaction (**CANC**) and transaction amend (**REPL**) will be rejected if the transaction does not exist or if the transaction exists and is cancelled.

Note that the acceptance of a transaction by Trax Report shall define the lifecycle state of a transaction, regardless of the outcome of any subsequent onward submission to the relevant NCA.

2.4.3 Enhanced Lifecycle

At a future point, Trax will include a lifecycle that allows the amendment or cancellation of a transaction that was originally submitted to the NCA via another method/ARM.

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2.5 Onward Submission to the NCA

2.5.1 Transaction Amend

Trax Report allows the cancellation and re-submission of a report to be submitted as a single amend (**REPL**) transaction.

Where a **REPL** transaction is submitted, Trax will onward transmit the following transactions to the relevant NCA:

- A cancel transaction formatted with the Executing Entity Identification Code and Transaction Reference Number from the **REPL** transaction; and
- A new transaction reporting the full details of the **REPL** transaction.

Note that where a **REPL** transaction is filtered (see Section 2.7 below), Trax Report will onward transmit a cancel transaction to the relevant NCA and suppress the submission of the new transaction if the previous submission for the transaction report was not filtered³.

2.5.2 Report State

The acceptance of a transaction by Trax Report shall define the lifecycle state of a transaction, regardless of the outcome of any subsequent onward submission to the relevant NCA. This is illustrated in the following example scenario:

- A new transaction is submitted and accepted by Trax
- The onward submission of the new transaction is rejected by the NCA
- You can amend the report or cancel and resubmit the report as defined 2.4.1 above:
 - If you submit an amend and the amend transaction is accepted by Trax, Trax will onward submit the amendment to the NCA as a new transaction
 - If you cancel and resubmit the transaction and the cancel and new transactions are accepted by Trax, Trax will not onward submit the cancel⁴ and will only onward submit the new transaction.

Note that where a transaction submission is accepted by Trax Report but the result of onward submission to the NCA is pending, Trax Report assumes the onward submission will be accepted for report state purposes; e.g. Trax Report assumes that a new transaction will be accepted by the NCA if a subsequent submission is received for the same report before feedback is received from the NCA.

³ The transaction report is cancelled at the NCA if the amendment results in the transaction being 'non-reportable'.

⁴ Trax will return a 'not reported' status for the cancel transaction.

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2.5.3 Relevant NCA

Trax will onward transmit transactions to the competent authority that supervises the executing entity as a MiFID Investment Firm. The relevant NCA for an executing entity is configured as part of the on-boarding process.

In most cases, an executing entity is only required to report to a single NCA. However, the following types of firm may be required to submit transactions to more than one NCA⁵:

- Non-UK and non-EU firms (e.g. US Firm) operating branches in both the UK and EU; and
- EU firms operating a UK Branch.

To allow Trax to onward report to the correct NCA, non-UK and non-EU firms operating branches in both the UK and EU will be required to:

- Segregate their branch flows through separate submission accounts; i.e. an account for each NCA that they are required to report to; or
- Identify the executing branch location (or relevant NCA) on a transaction by transaction basis.

To allow Trax to onward report to the correct NCA, EU firms operating a UK branch will be required to:

- Segregate their UK branch regulatory reporting obligation submissions through separate submission accounts; i.e. one account to report the transactions to their home NCA and a separate account to report the same transactions to the FCA; or
- Identify the relevant NCA on a transaction by transaction basis.

The following points should be noted:

- EU firms operating a UK branch should note the requirement regarding the unique identifier for a Transaction Report in Section 2.3 above; i.e. separate Transaction Reference Numbers must be created where a transaction executed by the UK branch is reported to both their home NCA and the FCA
- Where a firm is required to report to more than one NCA and opts not to segregate their flows, Trax will retain a default NCA for the firm. Trax will onward report to the default NCA if a transaction does not identify the relevant NCA
- Where a transaction is amended, it will not be possible to amend the executing branch location (or relevant NCA) on a **REPL** transaction such that the transaction would be reported to a different NCA. Where a transaction has been reported to the incorrect NCA, the transaction must be cancelled and resubmitted to the correct NCA.

⁵ Please refer to the Trax Brexit FAQs for further information.

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2.6 Enrichment of Transactions

Trax Report supports the optional enrichment of transactions. The following types of enrichment are supported in the current service:

- Field defaults
- Look-up from entity mapping data
- Look-up from the associated post-trade transparency report
- ISIN look-up
- Look-up from Trax Instrument Reference data
- Look-up of Trading Venue.

2.6.1 Field Defaults

Field defaults allow the omission of specific fields in a transaction submission if there is a suitable rule to allow Trax to default the field. Field defaults are maintained centrally by Trax Client Service Management and are set up as part of the on-boarding process. Further information on the rules that can be set up to trigger a field default is presented in Section 7 below.

2.6.2 Entity Mapping Data

Entity mapping data allows you to create and maintain mappings between the identifiers used in your own systems to identify the parties involved in a transaction and the standard identifiers required for MiFID II (e.g. Legal Entity Identifier, National Id etc.).

When submitting a transaction, the following parties involved in the transaction can be identified using either your firm's own identifier, or the standard identifier required for MiFID II:

- Buyer and Seller
- Buyer and Seller Decision Maker
- Transmitting Firm for the Buyer and Seller
- Investment Decision within Firm; and
- Execution within Firm.

Where a transaction is submitted using a firm's own identifier for a party, Trax will look-up the party and onward report the transaction to the relevant NCA using the standard identifier held for the party within the firm's entity mapping data.

Further detail on the facilities available for maintaining entity mapping data is provided in the European Data Store (EDS) Technical Specification.

Note that where an executing firm accepts an order from a transmitting firm, the executing firm must:

- Request the transmitting firm to identify parties involved in the transaction using the required standard identifiers on a transmitted order; or
- Load the EDS with the details of the required entity mappings for their own LEI if they are prepared to accept an internal code of the transmitting firm to identify a party involved in a transaction on a transmitted order; and ensure uniqueness of all internal codes (their own and those of firms from which they are prepared to accept transmitted orders) for their LEI.

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2.6.3 Post Trade Transparency Report

When submitting a transaction, a user can either populate the OTC Post Trade Indicator for the required transactions, or provide the Trade Report Number of the associated Trade Report where the trade report was submitted to the Trax APA service.

Where OTC Post Trade Indicator is omitted on a transaction and Trade Report Number is populated, Trax will look-up the associated trade report and enrich OTC Post Trade Indicator using the transparency flags set for the trade report.

2.6.4 ISIN Look-up

MiFIR mandates the use of ISIN for reporting transactions executed on a trading venue or with an investment firm acting as an SI, and for transactions in instruments that exist on the reference data list as published by the relevant Instrument Reference Data system.

To allow for the fact that a user may not be able to source the ISIN for an exchange traded derivative (previously identified via an All code) or for an OTC derivative for which an ISIN has been allocated via the ANNA Derivative Service Bureau, Trax provides an optional service to look-up the ISIN from the underlying Instrument Reference data.

When submitting a transaction, a user can either populate the Instrument Identification Code (field 41) or provide the attributes that define the characteristics of the derivative contract traded.

Where the Instrument Identification Code is omitted on a transaction, Trax will perform a look-up of the ISIN within its Instrument Reference data using the other instrument attributes populated on the transaction. Where an ISIN is found for an instrument, Trax will process the transaction on the basis of that ISIN. Where an ISIN is not found for the instrument, Trax will process the transaction on the basis of the other instrument attributes populated on the transaction. Please see Section 2.9 below for further detail on how Trax onward reports the instrument to the NCA.

Further information on ISIN look-up and the other instrument attributes that a user must submit to allow Trax to perform the look-up can be found in the ISIN-Lookup guide.

Note that Trax will return the outcome of the ISIN Lookup operation within the Trax Response (Trax Operation Status). The status returned may indicate that an error occurred during the lookup operation (e.g. insufficient attributes provided to perform the lookup or an invalid attribute was provided). Where an error occurs during a look-up operation, processing continues in the same way as when an ISIN is not found for the instrument.

2.6.5 Trax Instrument Reference Data

Where the instrument identifier in Field 41 exists in the Trax Instrument Reference data and the data held for the instrument indicates that fields 42 to 56 are required to report the transaction⁶, Trax will look-up the following fields from its Instrument Reference data and enrich the corresponding fields where they have not been populated on the transaction submission:

- Instrument Full Name (Field 42)
- Instrument Classification (Field 43)
- Notional Currency (Field 44)
- Price Multiplier (Field 46)
- Underlying Instrument Code (Field 47)

⁶ The instrument is UTOTV and has not been reported to the relevant Instrument Reference Data system by a Systematic Internaliser; or the product can be UTOTV and the underlying instrument is TOTV (see 2.7.1 below).

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- Underlying Index Name (Field 48)
- Option Type (Field 50)
- Strike Price (Field 51)
- Option Exercise Style (Field 53)
- Maturity Date (Field 54)
- Expiry Date (Field 55); and
- Delivery Type (Field 56).

The following points should be noted for the enrichment of OTC ISINs that have been allocated by the ANNA DSB:

- Only products where the underlying can be traded on a trading venue will be enriched; and
- Where OTC ISIN Lookup is not performed, Trax will not enrich the underlying details for Swap transactions.

2.6.6 Trading Venue Look-Up

When submitting a transaction, a user should populate Trading Venue with the segment MIC of the venue on, or under the rules of which, the transaction was executed.

Where a transaction is not executed on, or under the rules of a Trading Venue, a user may omit Trading Venue on their transaction submission.

Where Trading Venue is omitted, Trax will perform a look-up within its Instrument Reference data and default the Trading Venue as follows:

- 'XOFF', if Instrument Identification Code (Field 41) is entered and:
 - The instrument exists in the Trax Instrument Reference data, is deemed to be UTOTV and has been reported to the relevant Instrument Reference Data system by an SI
 - The instrument exists in the Trax Instrument Reference data, is not deemed to be TOTV or UTOTV, has no underlying, the user is not opted in to instrument filtering and none of fields 42 to 56 have been submitted on the transaction; or
 - A TOTV override is set for the transaction; see MiFID Eligibility Override (Field X1) in Section 7.4 below.
- 'XXXX' otherwise.

2.7 Filtering Non Reportable Transactions

Trax Report supports the optional filtering of transactions. Where a transaction is filtered, the transaction is deemed 'non-reportable' and the transaction is not onward reported to the relevant NCA. The following levels of filtering are supported in the current service:

- Filtering on instrument eligibility
- Client specific filtering; and
- Filtering on Transaction Flag.

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2.7.1 Instrument Eligibility

Trax report will assess submitted transactions to determine whether the instrument being reported is MiFID eligible; i.e. Instrument Identification Code (Field 41) is populated and exists in the Trax Instrument Reference data and the data held indicates that the instrument is TOTV or is UTOTV.

Where Instrument Identification Code (Field 41) is not populated, or is populated but is not deemed to be TOTV or UTOTV, the instrument being reported will be assessed as MiFID eligible if the product traded can be UTOTV and:

- One or more underlying instruments exist for the instrument being reported, either as populated on the transaction (in Underlying Instrument Code or Underlying Instrument Code Other Leg) or as held in the Trax Instrument Reference data, and at least one of the underlying instruments exists in the Trax Instrument Reference data where the data held for the instrument indicates that the instrument is TOTV; or
- An underlying index exists for the instrument being reported, either as populated on the transaction (in Underlying Index Name or Underlying Index Name Other Leg) or as held in the Trax Instrument Reference data.

Note that Trax identifies if the product traded can be UTOTV on the basis of the ANNA DSB Product Definition Name determined for the transaction, or the Instrument Classification Code (as populated on the transaction or as held in the Trax Instrument Reference data) where the ANNA DSB Product Definition Name cannot be determined. Where neither of the ANNA DSB Product Definition Name or Instrument Classification Code is available, Trax assumes that the product traded can be UTOTV.

For details on the products that Trax has determined can be UTOTV, please contact Client Service Management.

As part of the on-boarding process, you will need to specify how transactions in non-eligible instruments are to be processed by Trax:

- Report All - all transactions in non-eligible instruments will be onward reported to the relevant NCA and a warning will be returned for each transaction
- Report None - transactions in non-eligible instruments will not be onward reported and Trax will return a 'not reported' status for each transaction.

It will be possible to override the 'report all' and 'report none' settings on a transaction by transaction basis by setting the MiFID Eligibility Override field on a transaction submission (see Section 7.4 below).

Note that where a transaction is filtered due to instrument eligibility, Trax will continue to reassess the transaction for a further 7 calendar days:

- If the eligibility of the instrument has changed for the transaction during the reassessment period (and a subsequent transaction version has not been submitted) then the transaction will not be filtered and will proceed through the normal transaction lifecycle (see Section 2.11 below)
- After 7 days:
 - If the Trax Instrument Reference data indicates that the instrument is not eligible, the transaction will remain in a non-reportable status and reassessment for the transaction will end
 - If the product traded can be UTOTV but the Trax Instrument Reference data does not hold an underlying instrument or underlying index for the product, then the transaction will not be filtered and will proceed through the normal transaction lifecycle resulting in the rejection of the transaction.

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The reassessment of transactions is performed to account for:

- Any delay in Trax receiving notification of eligibility due to the timings of instrument reference data reporting flows between venues, the relevant Instrument Reference Data system and Trax; and
- Any delay in the receipt of reference data for instruments that can be UTOTV but that are not reported to the relevant Instrument Reference Data system (i.e. instruments traded outside of the UK or EU).

2.7.2 Client Specific Filters

Trax Report includes the option to filter transactions on the basis of user defined rules. A client specific filter will operate on one or more fields within a transaction submission and can be configured to perform a specific action if the filter condition is triggered. The following filter actions are supported in the service:

- Transaction is not filtered, but a user defined warning is returned
- Transaction is filtered.

Client specific filters are maintained centrally by Trax Client Service Management and are set up as part of the on-boarding process. Further information on the rules that can be set up to trigger a filter presented in Section 7 below.

2.7.3 Transaction Flag Filters

Trax includes standardised transaction level flags on the transaction report in order to filter transaction types that are not deemed to be reportable under RTS 22 Article 2.

This enables clients to flag the type of transaction they are executing and where it falls outside of the scope of the transaction reporting obligations; Trax will not onward report the transaction to the NCA. Where this occurs Trax will notify the client of this on the response message and also make these transactions visible in the GUI.

2.8 User Defined Fields

User defined fields allow a client to include fields in a transaction submission that are not required from a regulatory reporting view point, but which would aid the user's own operational processes or facilitate the creation of reporting rules within Trax.

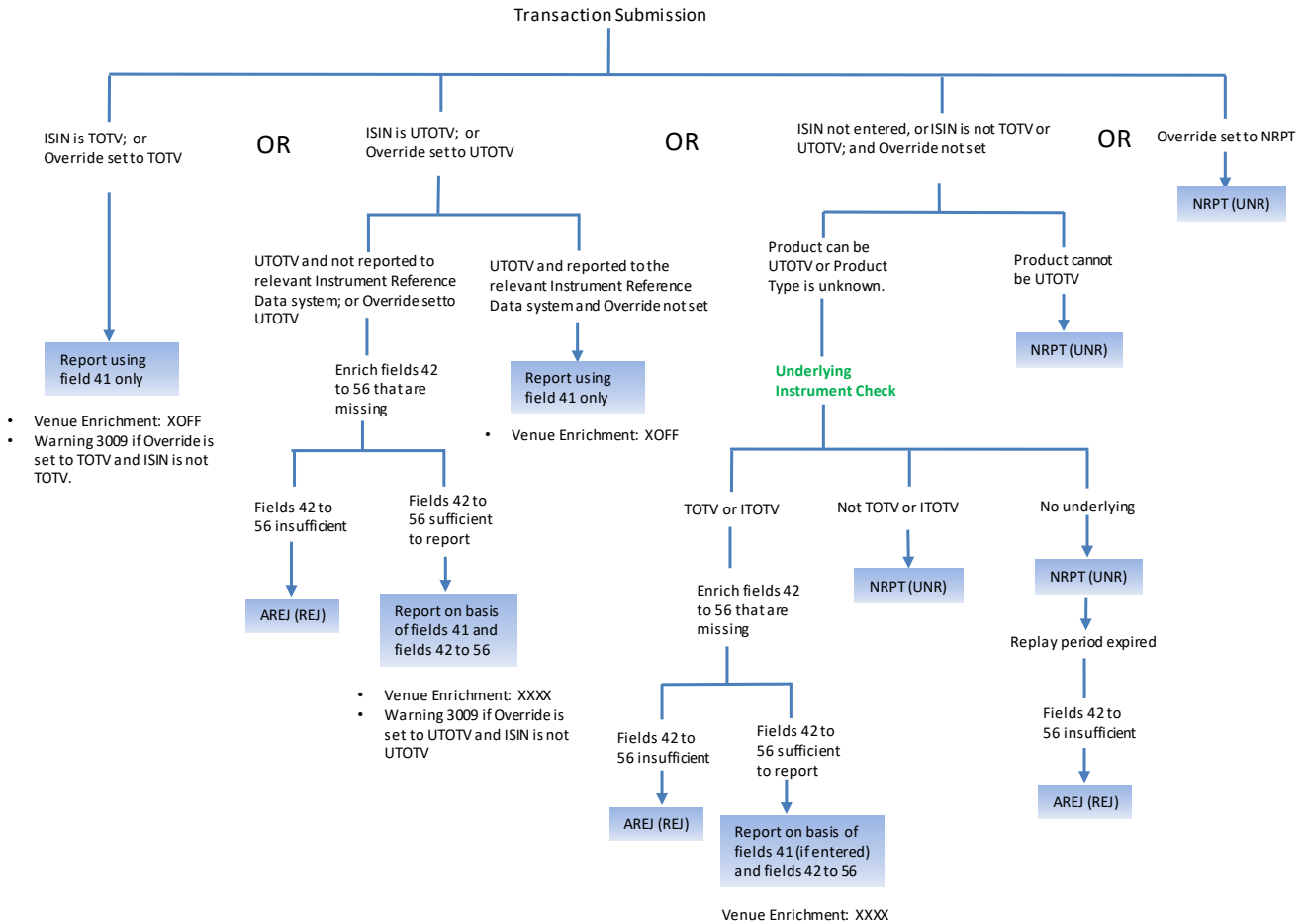
Note that it will be possible to include a user defined field in the rules to trigger a field default and in the rules to trigger a client specific filter.

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2.9 Reporting of Instrument Fields in a Transaction Report

The following diagrams illustrate how instrument reference data fields are processed and reported to the relevant NCA by Trax.

2.9.1 Opted in to Instrument Eligibility – Report None



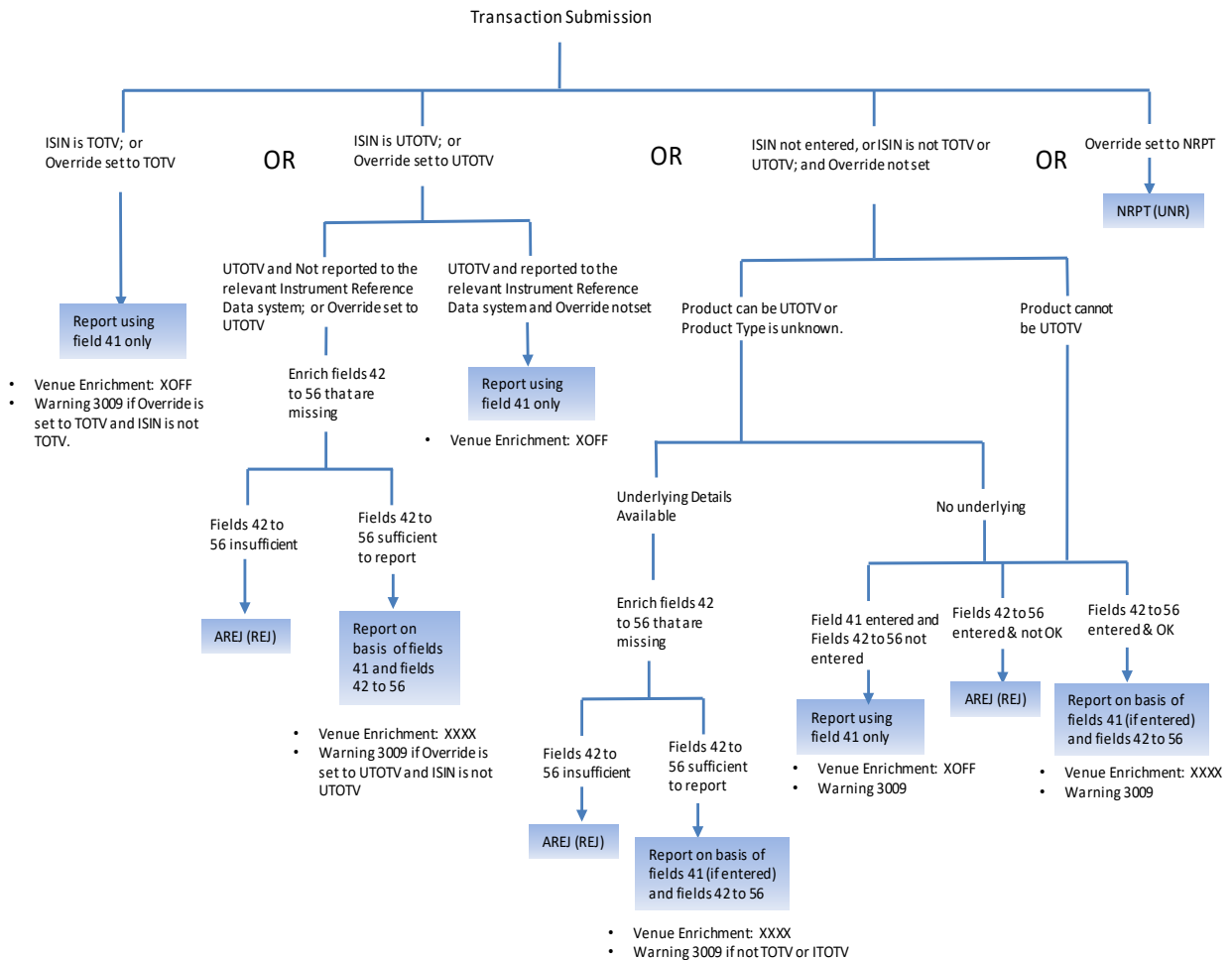
The following points should be noted:

- A user can override instrument eligibility on a transaction by transaction basis by populating the MiFID Eligibility Override field
- Report using field 41 only - fields 42 to 56 (if entered) are not reported
- Underlying Check:
 - TOTV – Underlying ISIN on transaction (either Leg) or Underlying ISIN held in Trax Instrument Reference data is TOTV; or
 - ITOTV - Underlying is an Index with a TOTV constituent - Underlying Index Name populated on Transaction (either leg) or Underlying Index Name held for instrument in Trax Reference data

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- Products that cannot be UTOTV⁷ are filtered
- Products that can be UTOTV are reportable on the basis of the underlying index (i.e. the index is a credit or equity index⁸) or the underlying ISIN being TOTV
- Fields 42 to 56 are enriched from the Trax Instrument Reference data if the instrument is UTOTV (and has not been reported to the relevant Instrument Reference Data system) or if the product traded can be UTOTV and is reportable.

2.9.2 Opted in to Instrument Eligibility – Report All



The following points should be noted:

- A user can override instrument eligibility on a transaction by transaction basis by populating the MiFID Eligibility Override field
- Report using field 41 only - fields 42 to 56 (if entered) are not reported

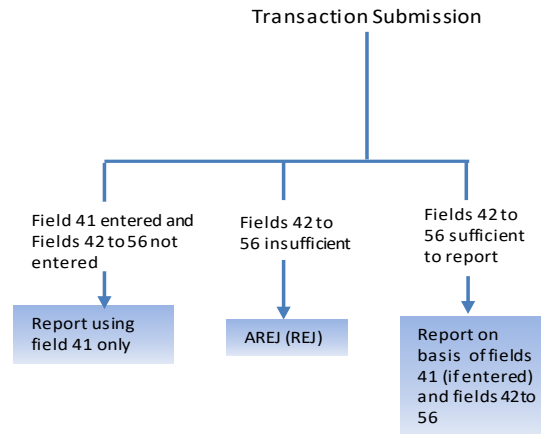
⁷ For example, an Interest Rate forward that is not admitted to trading on a trading venue cannot be UTOTV as the underlying is a financial rate.

⁸ Note that Trax assumes that where an index is identified using an Index Name, the Index is comprised of at least one constituent that is traded on a trading venue.

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- Fields 42 to 56 are enriched from the Trax Instrument Reference data if the instrument is deemed to be UTOTV and has not been reported to the relevant Instrument Reference Data system, or if the instrument is not deemed to be TOTV or UTOTV and an underlying instrument or underlying index is held for the instrument within the Trax Instrument Reference data.

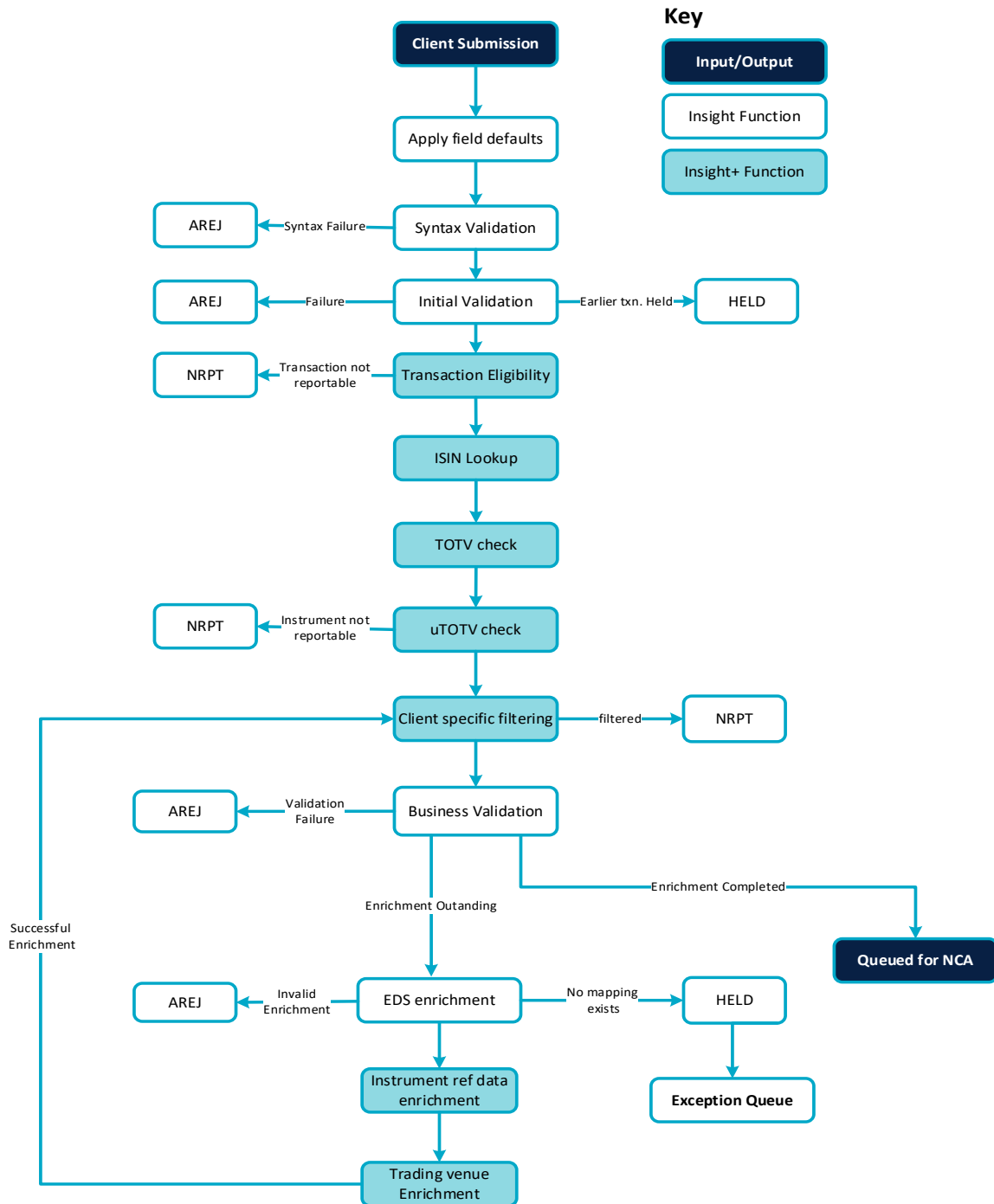
2.9.3 Not Opted in to Instrument Eligibility



Where a user is not opted in to instrument eligibility, Trax will onward report the instrument fields as populated on the transaction submission.

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2.10 Transaction Processing Flow



The diagram above illustrates the processing flow for a transaction. The following points should be noted:

- Field defaults and general syntax validation are applied prior to performing any business validations
- Initial validation is performed prior to filtering for non-reportable (transaction flag) to ensure that the transaction represents a valid lifecycle action
- Full business validation is only performed if the transaction is reportable (i.e. not filtered)

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- Business validation is repeated following successful enrichment
- Transactions that cannot be enriched due to missing entity mapping data will be placed in an exception workflow (see Transaction Replay in 2.11 below)
- Transactions will be 'held' prior to performing any business validation if an earlier transaction submission for the same report: i) has been placed in the exception workflow; or ii) is to be reported and is pending the creation of the next NCA submission file⁹.

⁹ Validation is held owing to constraints imposed by the reporting interface to the NCAs
February 2020

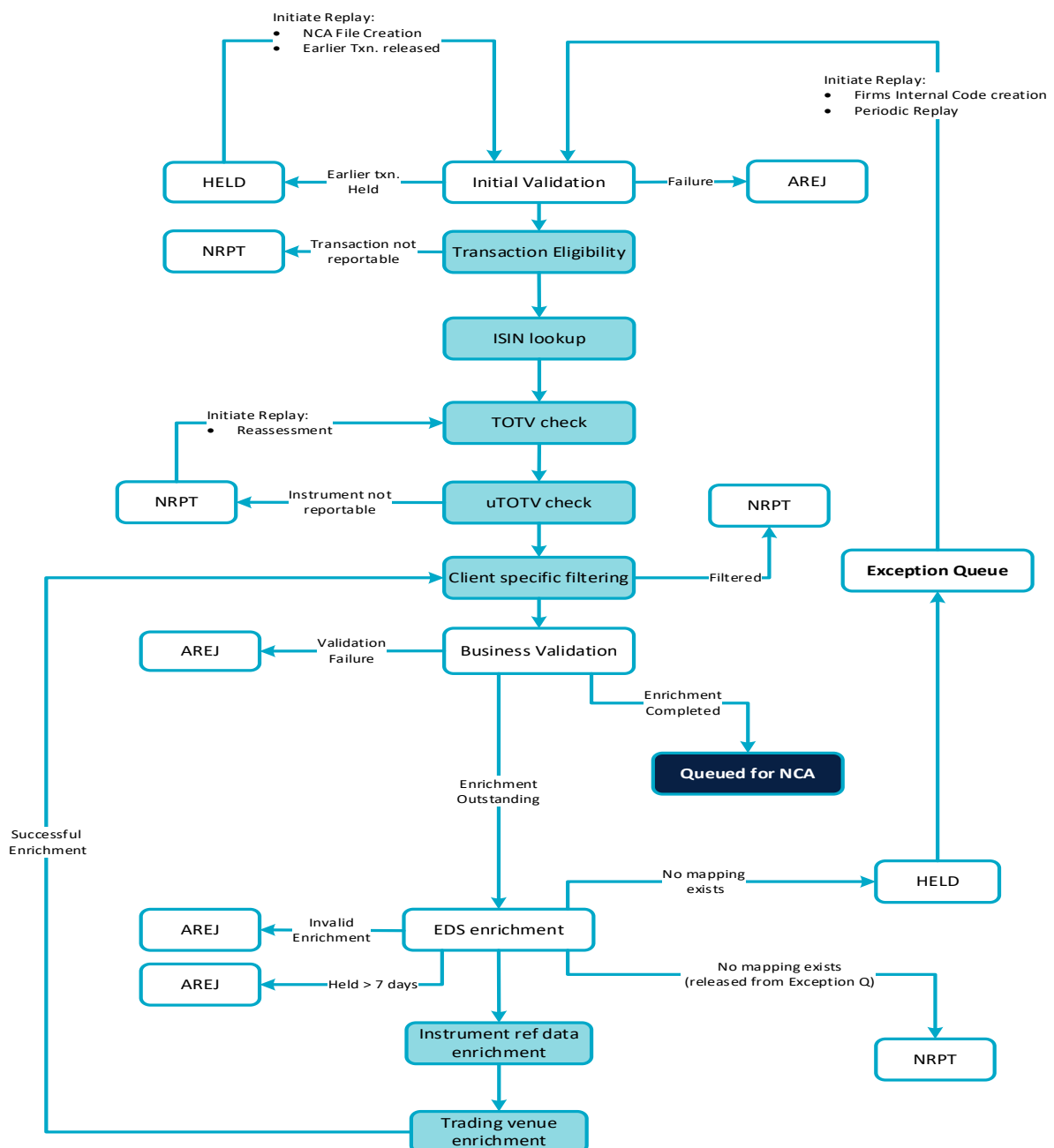
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2.11 Transaction Replay

The Trax Report GUI application includes an exception workflow where you can manage transactions that cannot be onward reported due to missing entity mapping data. The workflow supports the automatic 'replay' of all transactions held in the workflow for a firm's internal code, once the mapping between the internal code and the relevant standard identifier has been created.

Trax will also initiate the 'replay' of transactions held in the exception workflow on a periodic basis. If a transaction cannot be onward reported due to missing entity mapping data and a subsequent submission for the same report is 'held', the transaction that cannot be onward reported is deemed 'non-reportable', released from the exception queue and 'replay' proceeds to the subsequent 'held' submission for the same report.

Transactions that are 'held' due to the submission of an earlier transaction that is pending the creation of the next NCA submission file are automatically replayed once the NCA submission file is created.



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The diagram above illustrates the processing flow for transaction replay. The following points should be noted:

- Transactions that are filtered due to instrument eligibility are also replayed on a daily basis (for up to 7 calendar days) to reassess the eligibility of the instrument being reported
- Replay results in the transaction being reprocessed through the transaction processing flow
- Any transactions that are 'held' due to an earlier transaction submission for the same report being 'held' (see bullet point 6 in Section 2.10 above) are also replayed if replay for the earlier transaction is successful¹⁰
- Transactions that remain 'held' due to missing entity mapping data for more than 7 calendar date are automatically rejected (see Reason Code A1004 - "Rejected - transaction held for more than 7 days")
- A status update is returned for a transaction if replay results in a change of status for the transaction.

¹⁰ Replay is successful for a transaction if the transaction does not remain in a 'held' state after replay.

3 TRANSACTION REPORTING FILE FLOW

3.1 Overview

Each time Trax Report receives a file submission, it will be validated at that time to ensure that the file is a valid submission (see Section 4 below for detail). If the file is a valid submission, Trax will process each transaction in the file submission and return a single response file to the same SFTP folder on the SFTP server for the subscriber to collect.

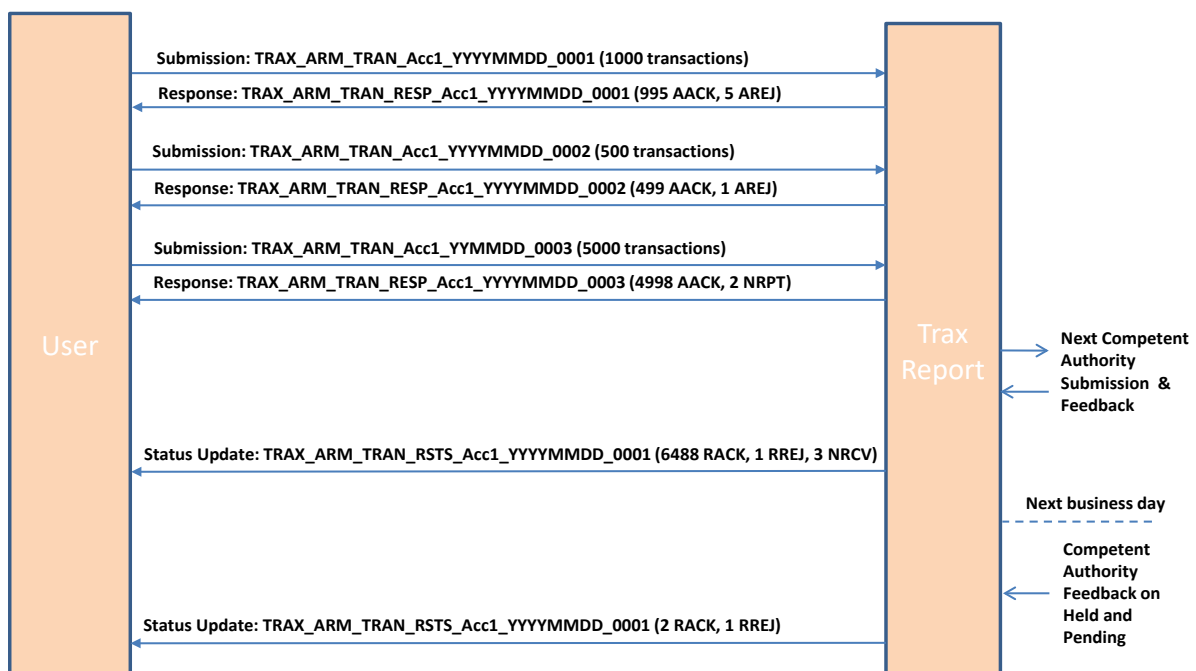
Correct (i.e. valid) transactions will be written to the Trax Report database and a transaction response (AACK - Accepted by ARM, or NRPT - Not Reported) will be returned for the transaction in the response file. Note that warnings can be returned for valid transactions.

For transactions that fail business validation, a transaction response (AREJ - Rejected by ARM) will be returned for the transaction in the response file. Each error detected for a transaction will be returned in the transaction response (AREJ).

At set times during the day (see Section 6.4 for further details) Trax Report will onward transmit valid transactions that are reportable to the relevant NCA.

After transactions have been forwarded to the relevant NCA, they will be re-validated by the NCA and feedback will be returned to Trax. On receipt of the feedback, Trax Report will create and return a status update file containing a transaction status update (RACK - Accepted by NCA, RREJ - Rejected by NCA, NRCV¹¹, or NPND¹²) for each transaction submitted by the subscriber that was forwarded to the NCA in the last scheduled submission. If a transaction is rejected by the NCA, the transaction status update (RREJ) will contain each error detected by the NCA.

The reporting file flow is illustrated in the following diagram; this includes the status update file created the following day on receipt of further feedback from the NCA on the processing of held and pending transactions.



¹¹ See Section 6.2 for further information on transactions held for validation.

¹² See Section 6.2 for further information on transactions pending instrument validation.

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3.2 Transaction Replay

Transaction reports that cannot be enriched due to missing entity mapping data and transactions that cannot be processed as a result of the submission of an earlier transaction that is pending the creation of the next NCA submission, will be 'held' and a transaction response (HELD - Awaiting Replay) will be returned in the response file.

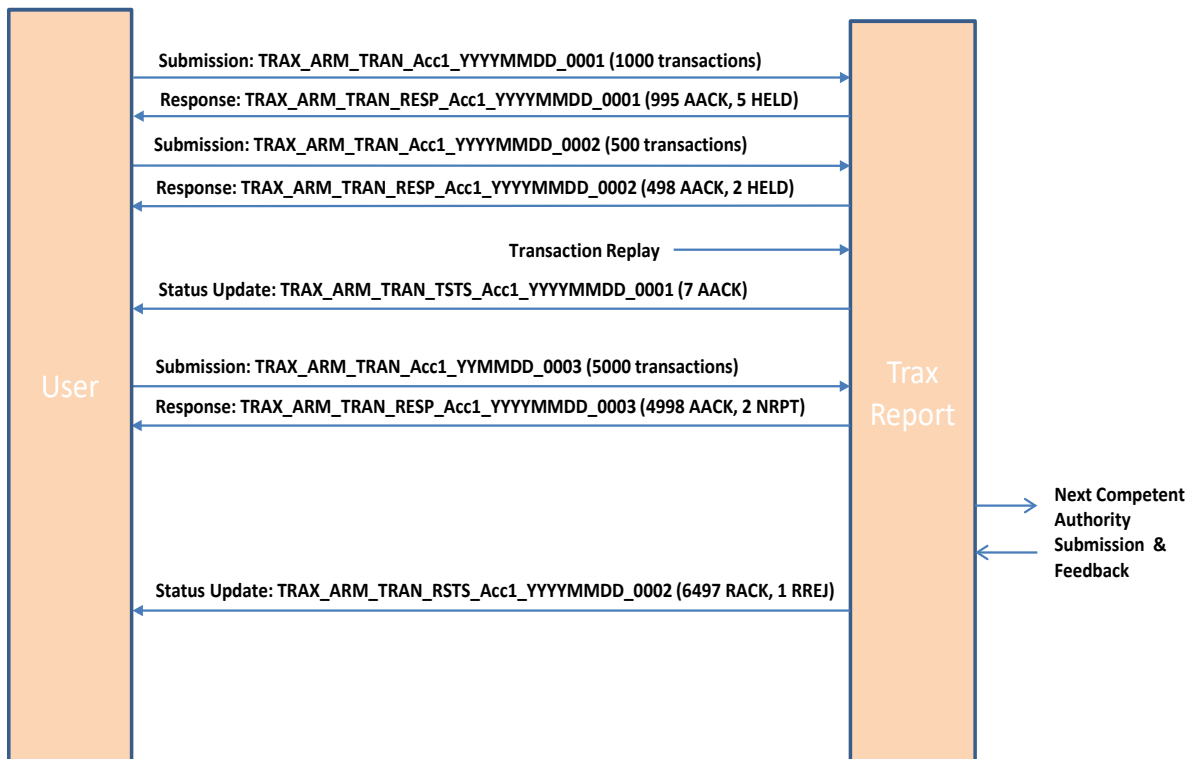
Where a transaction is awaiting replay, any subsequent transactions for the same report will be also be 'held' and a response (HELD - Awaiting Replay) will be returned in the response file. Once the transaction awaiting replay is successfully replayed or released from the exception queue, all subsequent 'held' transactions for the same report will be re-played.

Transactions that are filtered due to instrument eligibility are also replayed on a daily basis (for up to 7 calendar days) to reassess the eligibility of the instrument being reported.

Where a transaction is replayed, the transaction is reprocessed through the transaction processing flow and a status update (AACK, AREJ or NRPT) will be returned in a status update file if the status of the transaction changes as a result of the replay.

Trax Report will onward transmit successfully replayed transactions that are reportable to the relevant NCA(s) along with other newly submitted valid transactions as described in Section 3.1 above.

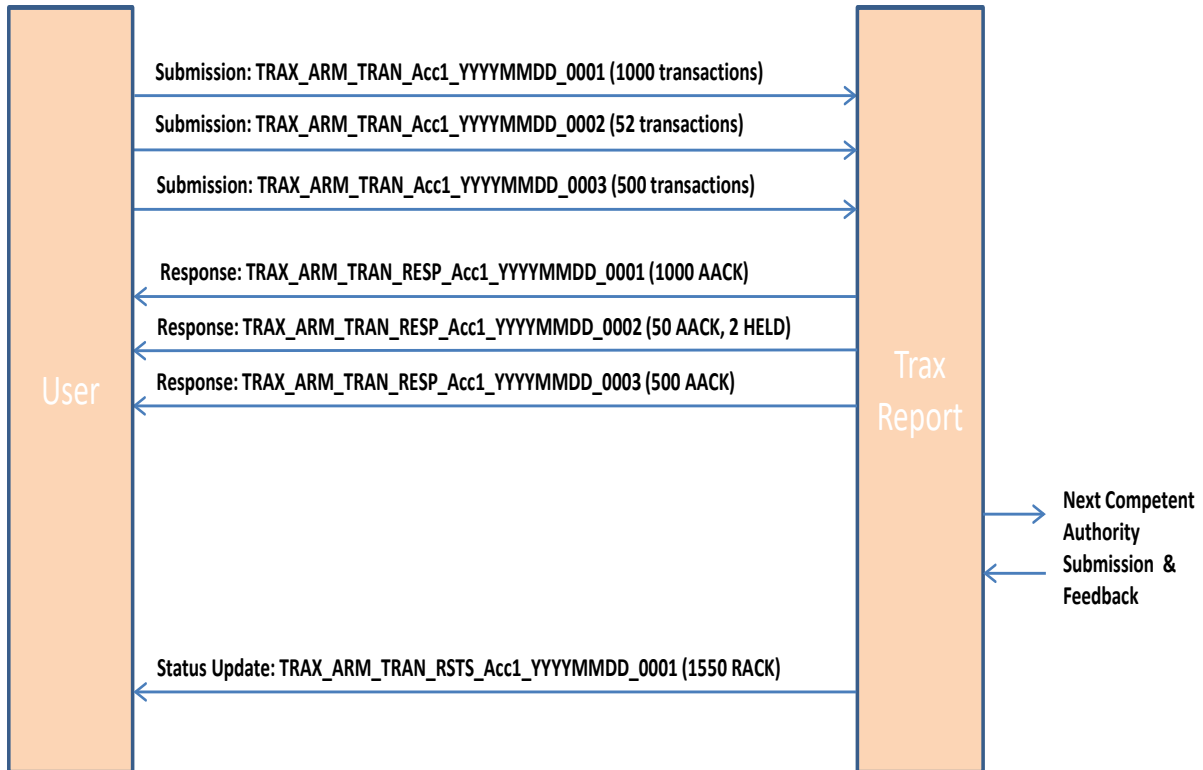
This reporting file flow is illustrated in the following diagram.



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3.3 Processing and Response Order

The following diagram is presented to further illustrate processing and response ordering.



In the above example:

- 3 separate files are submitted by the subscriber in close succession
- Trax Report processes file submissions in Submission Number order¹³; however individual transactions within a file submission can be processed in parallel (i.e. in any order) if earlier transactions are not outstanding for the same report
- All transactions submitted in file 0003 are independent. Some transactions submitted in file 0002 are updates to transactions submitted in file 0001
- Trax Report returns response files for files 0001, 0002 and 003 in processing order. Some transactions submitted in file 0002 are reported as 'held' as earlier transactions submitted in file 0001 are pending the creation of the next NCA submission file
- Trax Report forwards all valid transactions to the relevant NCA in the next scheduled submission
- On processing the response from the NCA, Trax Report returns a status update file to the subscriber.

The following points should be noted in relation to the processing and response order:

- There is no ordering applied to transaction responses in a response file, other than processing order for transactions for the same report

¹³ See Section 4.2.5 below for further details.

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- The rejection of a transaction by Trax Report can impact the processing of subsequent transactions. For example, if a new transaction and an amend transaction for the same report are submitted, and the new transaction is rejected, the amend transaction will also be rejected. A subscriber must decide on the most appropriate model for their processing:
 - Wait for a transaction response from Trax Report before sending the next transaction for the same report; or
 - Allow for multiple outstanding transaction versions
- Transaction responses for the same report will normally be returned in the order in which the transactions were originally received. However, in the scenario where a transaction is rejected due to invalid syntax (see Section 7), transaction responses for the same report may not be returned in order
- Under normal circumstances, a response to a submission will be returned before the status update file indicating the processing outcome of the onward submission to the NCA. However, in certain technical scenarios, a status update file for NCA feedback may be returned before a response to a submission.

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4 FILE SUBMISSIONS

4.1 File Format

4.1.1 Overview

Trax will accept file submissions 24 hours a day, 7 days a week subject to scheduled maintenance down time.

File submissions received up to 22:00 (UK local time) each weekday will be accepted for processing and onward transmitted to the relevant NCA the same day. File submissions received after this time will be accepted and processed but transactions may not be onward transmitted to the relevant NCA until the next business day for the NCA.

Note that the 22:00 cut-off time will be reviewed once information is made available regarding the overnight batch windows of the respective NCAs.

A submission file must consist of two or more variable length records with a maximum length of 20,000 bytes containing:

- A column header row which defines the order and presence of fields in the transaction template for the file submission; followed by
- One or more transactions up to a maximum of 99,999 (see Section 7 for format).

The format of a submission file must conform to the following CSV definition:

- A single line of text represents each record
- Each field within the record is separated by a comma (,)
- There will be NO trailing comma (,) after the last field
- Each field is represented by a sequence of ASCII characters
- Double Quotes (") are optional but must be used if the field value contains commas and/or quotes
- Each record terminates with a 'new line' character
- All records should have the fields presented in the order defined by the column header row.

4.1.2 File Naming Convention

Files must have a 'CSV' extension and must follow the naming convention "TRAX_SSS_XXXX_SubmissionAccountID_YYYYMMDD_NNNN", where:

- SSS The Service the file is being sent to. Must be set to "ARM".
- XXXX The message template (i.e. TRAN) used for the submission.
- SubmissionAccountID Is the Identifier agreed between your organisation and Trax to identify the submission account under which the file is submitted
- YYYYMMDD The date on which the submission file was created
- NNNN The Submission Number of the file. Files must be submitted in Submission Number order with no gaps. Submission Number must be reset to zero each day.

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4.2 File Validation

4.2.1 File Rejections

Trax Report will perform file level checks on a file submission file before attempting to process any of the transactions in the file. If a file level check fails, the file submission is rejected (see Response files in Section 5).

Trax Report will check that the file submission is correctly named and conforms to the structure defined in 4.1.1 above. Additional checks are also performed which are detailed in the following sections.

4.2.2 Date and Time Checks

Date and time will be checked for file submissions (Creation Date extracted from the submission file name):

- Must not be in the future
- Must not be more than one UK business day in the past.

4.2.3 Submission Account Checks

Submission account will be checked for file submissions (identifier extracted from the submission file name):

- Must be registered to the subscriber within the subscriber's Trax account set up
- Must be associated to the SFTP folder in which the file was submitted within the subscriber's Trax account set up.

4.2.4 Duplicate Files

A submission file is identified as a duplicate if it has the same Submission Account Id, Creation Date and Submission Number (all extracted from the submission file name) as a previously accepted valid file submission.

4.2.5 Submission Numbers

Creation Date and Submission Number (within Submission Account) will be used to ensure that file submissions are processed in the sequence intended by the sending user.

Submission numbers must start at 0000 for a Creation Date and be incremented by one for each file submitted for that Creation Date. Up to 10 thousand files (numbered 0000 to 9999) can be submitted for a Submission Account and Creation Date.

If the Submission Number on a file submission does not match the expected Submission Number for the Creation Date, the file submission will be rejected.

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4.2.6 Column Header Checks

The column header row will be checked for file submissions:

- A non-repeating field can be omitted and appear in a different order to that defined in the template but must only appear once
- Repeating fields have to be in the order defined in the template for the repeating group and must not be omitted within a group
- The column header for a field must match the field header name defined in the template
- The number of fields for each transaction must match the number of fields defined in the column header.

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5 RESPONSE FILES

5.1 Overview

Files will be submitted by subscribers to their designated SFTP folder on the Trax SFTP server. Trax Report will in turn send response files back to the same SFTP folder on the SFTP server for subscribers to collect.

A response file will contain the following:

- A column header row which should be ignored for processing purposes; and
- A transaction response for each transaction contained in the submission file indicating the processing outcome for the transaction (see Section 8 for format).

Where a file submission is rejected (e.g. a duplicate file is submitted) the transactions in the file submission will not be processed and the response file will contain a single file error response.

Response files will be in CSV format and the format will conform to the standard defined in Section 4 above with the following exception:

- All records will have the fields presented in the order defined in the Outbound Message template in Section 8.

5.2 File Naming Convention

Response files will have a 'CSV' extension and will follow one of the following naming conventions:

"TRAX_SSS_XXXX_TTTT_SubmissionAccountID_YYYYMMDD_NNNN" if the submission file was correctly named; or

"TRAX_SSS_TTTT_SubmissionFileName" if the submission file did not conform to the required naming convention; where:

- | | |
|-----------------------|---|
| • SSS | The Service the file is sent from (i.e. "ARM"). |
| • XXXX | The message template from the submission file. |
| • TTTT | The Type of file. Will be set to "RESP" (Response file). |
| • SubmissionAccountID | The identifier for the submission account from the submission file. |
| • SubmissionFileName | The file name of the submission file excluding the file extension |
| • YYYYMMDD | The Creation Date from submission file. |
| • NNNN | The Submission Number from the submission file. |

The file name will be appended with the _Timestamp of when the submission file was received on the SFTP Server.

6 STATUS UPDATE FILES

6.1 Overview

Status update files are created by Trax Report to notify subscribers of transactions where the status has changed from the status returned in the response to the original transaction submission:

- As a result of onward submission to the relevant NCA (see Section 6.2 below); or
- As a result of transaction replay within Trax (see Section 3.2 above).

Note that separate status updates files will be created for each of the above; i.e. status updates related to Trax Report processing will be returned in separate files to status updates related to NCA processing.

A status update file will contain the following:

- A column header row which should be ignored for processing purposes; and
- A transaction status update for each transaction that has changed status indicating the new status for the transaction (see Section 8 for format).

Status update files will be in CSV format and the format will conform to the standard defined in Section 4 above with the following exception:

- All records will have the fields presented in the order defined in the Outbound Message template in Section 8.

6.2 NCA Processing

6.2.1 Onward Submission

Trax Report will onward transmit valid transactions that are reportable to the relevant NCA in accordance with the schedule outlined in Section 6.4 below. Files will be onward transmitted on all business days within the relevant NCAs jurisdiction. Trax Report will not onward submit transaction files on weekends.

After transactions have been onward transmitted to the NCA, they will be processed by the NCA and a response will be returned to Trax providing feedback on the outcome of the submission for each transaction. On receipt of the feedback, Trax will send a status update file back to the SFTP Folder in which the transactions were originally submitted for subscribers to collect.

A status update related to onward submission can be one of:

- RACK - the transaction has been accepted by the NCA
- RREJ - the transaction has been rejected by the NCA
- NRCV - the transaction is received by the NCA and is held for validation as instrument reference data for the trade date is not yet available¹⁴
- NPND - the transaction is pending instrument reference data validation¹⁵.

¹⁴ The transaction is reported on trade date; prior to ESMA reference data being available to the NCAs on T+1

¹⁵ The reported instrument is not present in the ESMA Reference data. NCA's will attempt to validate the reported instrument for a further 7 days.

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The following points should be noted in relation to amend (**REPL**) transactions:

- A status update will reflect the NCA feedback for the new transaction where Trax onward transmits a cancel and a new transaction to effect the amendment
- A status update will not be created where Trax onward transmits a cancel transaction to cancel a previously reported transaction that is no longer reportable.

6.2.2 Held and Pending Transactions

On receipt of instrument reference data from ESMA, the NCA's will process transactions held for validation from the previous day and any transactions for which instrument validation is pending and return feedback to Trax before any new submissions are processed.

On receipt of the feedback, Trax will send a status update file back to the SFTP Folder in which the transactions were originally submitted for subscribers to collect.

A status update related to held and pending transactions can be one of:

- RACK - the transaction has been accepted by the NCA
- RREJ - the transaction has been rejected by the NCA
- NPND - the transaction is pending instrument reference data validation.

6.3 File Naming Convention

Status update files will have a 'CSV' extension and will follow the naming convention:

"TRAX_SSS_XXXX_TTTT_SubmissionAccountID_YYYYMMDD_NNNN"; where:

- SSS The Service the file is sent from (i.e. "ARM").
- XXXX The message template used for the original submission to Trax.
- TTTT The Type of file. Will be "TSTS" for a status update file related to Trax processing. Will be "RSTS" for a status update file related to NCA processing.
- SubmissionAccountID The identifier for the submission account under which the transactions were originally submitted.
- YYYYMMDD The date on which the transactions were onward transmitted to the NCA or the date on which transactions were replayed in Trax.
- NNNN A sequence number generated by Trax to uniquely identify files for a submission account for a date.

The file name will be appended with the _Timestamp of when the status update file was created by Trax.

6.4 NCA Submission Schedule

Files will be onward transmitted at 30 minute intervals starting at 08:30 (UK local time) with the last file being onward transmitted at 23:30 (UK local time). Additional submission slots are scheduled post the 22:00 cut-off time to ensure that all transactions submitted prior to the cut-off are transmitted to the relevant NCA the same day.

Transactions received up to 30 minutes prior to the submission time will typically be onward transmitted to the NCA in that submission slot (e.g. received prior to 08:00 will be transmitted in the 8:30 slot). Actual onward submission times will vary depending on the volume and timing of transactions received.

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Note that the above submission schedule is provisional. Actual schedules may vary and Trax will publish schedules once information is made available regarding the overnight batch windows of the respective NCAs.

7 TRANSACTION TEMPLATE

7.1 Submission Format

The template presented in the following section defines the business message syntax required for the submission of a MiFID II transaction.

Trax Report requires transactions to be submitted in CSV format. Each field in the template must be included in the order defined in the CSV header for the submission.

The following fields in the template support the input of multiple values:

- First Names, Surnames, Waiver Indicators and OTC Post-Trade Indicators are single fields with the number of values being limited by the field size limit or a defined maximum. Multiple values within the field must be delimited by a comma. For example: „James,Robert”, to report two first names
- Buyer, Seller, Buyer Decision Maker and Seller Decision Maker are repeating sequences with the maximum number of occurrences being set at a defined limit of 100 occurrences. A sequence is repeated by repeating the field headers. The field headers for a single sequence must be contiguous
- User Defined Field Identifier and Value (Fields X10 and X11) is a repeating field group with the maximum number of occurrences being set at a defined limit of 10 occurrences.
- Underlying Instrument (Fields K13 to K18) and Underlying Instrument Other Leg (Fields K19 to K24) are single fields with the number of values being limited to a defined maximum.

Note that where the underlying repeats and includes an index, the repeating values in each field should be aligned. For example:

```
„ISIN1,ISIN2,ISIN3, ”, ”, INDEXNAME3, ”, ”, , INDEXCODE4”, ”, , , INDEXTERM4”,
```

Note also that alignment of values illustrated above is not enforced by Trax.

An example CSV submission can be obtained from Client Services Management.

7.2 Transaction Template

The transaction template in the section below defines the following for each field:

- Reference - field reference number and ESMA field number (in brackets)
- Field Header - the field header within the CSV header
- Description - a description of the field based on the guidance provided within the relevant ESMA regulatory technical standard
- M/O/C - indicates whether a field is Mandatory (M) Optional (O) or Conditional (C) for each type of transaction. Trax Report will reject a transaction and return a general syntax error if any mandatory field is not populated
- Format - defines the format applicable to the field. Trax Report will reject a transaction and return a general syntax error if a field does not comply with the defined format. Where group field components are defined, all or none of the component fields should be provided for the group

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- Business Rule - defines the business validation and warning rules applied to a field (note that business rules only apply to NEWM and REPL transactions except for fields Message Id, Report Status, Executing Entity and Transaction Reference Number, where the business rules also apply to CANC transactions):
 - Trax Report will apply business validation to each field in turn and will reject a transaction if one or more fields do not pass the required validation rules. Trax Report will return an error for each field that fails business validation
 - On successful completion of business validation for all fields, Trax Report will apply warning rules to each field in turn. Trax report will return each warning detected for the transaction
- Reason Code - the rejection/warning code applicable to a business rule (see table in Section 8.3 below). Prefix indicates the source of business rule (E = ESMA, A = ARM, W = ARM Warning).

7.3 Field Format

The format column in the message layouts uses the following notation:

- Datetime fields have the format YYYY-MM-DDTHH:MM:SS.ffffffTZD. Minimum precision is seconds. Time zone designator (Z or +HH:00 or -HH:00) is optional in which case datetime is in the local time of the sending source
- Date fields have the format YYYY-MM-DD
- Decimal fields have the format Decimal i/d, where “i” is the maximum number of digits (excluding the decimal point but including fraction digits) and “d” is the maximum number of fraction digits. Leading and trailing zeros are acceptable. Signed numbers are identified using the ISO notation “N”. For example, [N] Decimal 10/5 means that a sign “-” must be present if the number is negative
- Numeric fields have the format 9(i), where “i” is the maximum number of digits. Leading zeros are acceptable.
- Instrument Identifiers (ISIN) must be a string of 12 characters where the first 2 characters are capital Latin letters (A-Z), characters 3 through 11 are capital Latin letters (A-Z) and numbers and the last character is valid check digit
- Indicator fields have the format BOOLEAN and must contain the text “true” or “false” (mixed case is allowed)

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- Code (CODE) fields have a format that is dependent on the type of code (CODE TYPE) used to identify a party involved in a transaction as defined in the following table. Note that Trax Report will reject a transaction and return a general syntax error if a code field is entered without the corresponding code type field or vice-versa.

Code used to identify a party	Format		Usage
	Code Type	Code	
Legal Entity Identifier (LEI)	LEI	String of 20 characters where the first 18 characters are capital Latin letters (A-Z) or numbers and the last two characters are numbers	Executing Firm, Buyer, Seller, Decision Maker for Buyer and Seller and Transmitting Firm for Buyer and Seller
Trading Algorithm	ALG	C(1 to 50)	Investment and Execution within Firm
Firms Internal Code	INT	T(1 to 35)	All code fields
Market Identifier Code (MIC)	MIC	C(4)	Buyer and Seller
National Id	NAT	A string of between 3 and 35 characters where the first 2 characters are capital Latin letters (A-Z) and the remaining characters are capital Latin letters (A-Z), numbers (0-9) and additionally, the characters: plus "+" and minus "-" if the first 2 letters are "FI", and the character: minus "-" if the first 2 letters are "LV".	Buyer, Seller, Decision Maker for Buyer and Seller, Investment and Execution within Firm.
Passport Number	PPT	As per National Id	As per National Id
Concatenated Code	CCT	String of 20 character where the first 2 characters are capital Latin letters (A-Z), the next 8 characters are numbers and the remaining characters are capital Latin letters (A-Z) or #, where 11th and 16th character are capital Latin letters (A-Z).	As per National Id
Client Aggregate Account	AGG	A(4)	Buyer and Seller
Client	CLT	A(4)	Execution within Firm

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7.4 Transaction

7.4.1 Template Structure

The table below defines the high level structure of the template detail presented in Section 7.4.2 below.

Sequence	Description	Comment
A	General	
B	Buyer Details	Repeatable sequence (except Field B7)
C	Buyer Decision Maker Details	Repeatable sequence
D	Seller Details	Repeatable sequence (except Field D7)
E	Seller Decision Maker Details	Repeatable sequence
F	Transmission of Order Details	
G	Transaction Details	
H	Instrument Details	
K	Instrument Details – Other	Not applicable for financial instruments for which a request for admission to trading has been made, that are admitted to trading, or traded on a Trading Venue.
M	Instrument Details - Commodity Specific	Used to support ISIN lookup from the ANNA Derivatives Service Bureau.
N	Instrument Details - Interest Rate Specific	Used to support ISIN lookup from the ANNA Derivatives Service Bureau.
P	Instrument Details - FX Specific	Used to support ISIN lookup from the ANNA Derivatives Service Bureau.
R	Instrument Details - Credit Specific	Used to support ISIN lookup from the ANNA Derivatives Service Bureau.
T	Investment Decision within Firm	
U	Execution within Firm	
W	Waivers and Flags	
X	Miscellaneous	Trax specific fields used to help create reporting rules and facilitate other Trax services (e.g. best execution). User Defined Field Identifier and User Defined Field Value (Fields X10 and X11) is a repeatable field group within sequence X.

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7.4.2 Template Detail

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
A		General					
A1	Message Id	Optional field that can be used to uniquely identify a transaction message. Note that uniqueness of message id is not enforced by Trax.	O	O	X(1 to 255)		
A2 (1)	Report Status	Indication as to whether the transaction is a new, a cancellation or amendment.	M	M	A(4)	Must be one of the following: <ul style="list-style-type: none"> • NEWM: New transaction • REPL: Transaction amend • CANC: Cancel transaction 	E1001
A3 (2)	Transaction Reference Number	Identification number internal to the executing firm that is unique for each transaction submitted by the firm. The combination of the Executing entity identification code (Field A5) and Transaction Reference Number uniquely identifies a transaction report.	M	M	C(1 to 52)	A New transaction (Field A2 is NEWM) will be rejected if: <ul style="list-style-type: none"> • Trax has previously accepted a new transaction with the same key fields and • A cancel transaction with the same key fields has not been previously accepted by Trax. An amend or Cancel transaction (Field A2 is REPL or CANC) will be rejected if: <ul style="list-style-type: none"> • A new transaction with the same key fields has not been previously accepted by Trax; or • A cancel transaction with the same key fields has been previously accepted by Trax. 	E1002 E1003
A4 (3)	Trading Venue Transaction Identification Code	Identification number generated by trading venues and disseminated to both the buying and the selling parties.	C	O	C(1 to 52)	Must not be entered if Trading Venue (Field G7), as entered or enriched, is 'XXXX', 'XOFF' or is not a Trading Venue.	E1005
A5	Executing Entity Identification Code Type	Type of code used to identify the entity executing the transaction.	M	M	CODE TYPE	If not entered, defaults to 'LEI' if a single executing entity is registered to the submission account.	

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
A8	Executing Entity Branch Location	<p>The branch of the Executing Entity that executed the transaction.</p> <p>Can be used for routing to the relevant NCA if the Executing Entity is reporting to multiple NCAs under the same submission account.</p>	O	O	A(2)	<p>Must be a valid ISO 3166 Country Code if entered.</p> <p>Must not result in the reporting of the transaction to a different NCA (to that of last accepted NEWM for the same key fields) if entered for a Transaction Amend (Field A2 is REPL) and National Competent Authority (Field A9) is not entered.</p>	A1607 A1606
A9	National Authority Competent	<p>The National Competent Authority to which the transaction is to be reported.</p> <p>Can be used for routing to the relevant NCA if the Executing Entity is reporting to multiple NCAs under the same submission account.</p>	O	O	A(5)	<p>If entered, must match an NCA that is configured for the Executing Entity and submission account.</p> <p>Must not result in the reporting of the transaction to a different NCA (to that of last accepted NEWM for the same key fields) if entered for a Transaction Amend (Field A2 is REPL).</p>	A1605 A1604
B		<p>Buyer Details (Fields B1 to B6) - can repeat for joint accounts:</p> <ul style="list-style-type: none"> • Fields B3 to B6 are only applicable if the buyer is a client • Fields B4 to B6 are only applicable if the buyer is a natural person. 			Up to a limit of 100 Buyers.		
B1	Buyer Code Type	Type of code used to identify the acquirer of the financial instrument.	M	O	CODE TYPE	Must not be one of 'LEI', 'MIC', 'INT' or 'AGG' if Buyer is repeated.	A1141
B2 (7)	Buyer Code	<p>Code used to identify the acquirer of the financial instrument.</p> <p>Where the acquirer is a legal entity, the LEI code of the acquirer shall be used.</p> <p>Where the acquirer is a non-legal entity, the identifier specified in Article 6 of RTS 22 shall be used.</p> <p>Where the transaction was executed on a trading venue or on an organised trading platform outside of the relevant jurisdiction 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.</p>	M	O	CODE	<p>If code type (Field B1) is 'LEI', the entered code must be a valid ISO 17442 LEI with:</p> <ul style="list-style-type: none"> • An Initial Registration Date (date component only) that is less than or equal to the date component of Trade Date (Field G1) if Trade Date is greater than the 'LEI Grace Period End Date' (currently defined as 2018-07-02); and • An Entity Status of 'Active and a Registration Status of 'Issued', 'Lapsed', 'Pending Transfer' or 'Pending Archival'; or if Entity Status is 'Inactive' and Registration Status is one of 'Merged', 'Retired', 'Pending Transfer' or 'Pending Archival' then the LEI must have been reported as 'Merged' or 'Retired' on or after the Trade Date (Field G1). <p>The executing entity is deemed to be the 'buyer' if code type (Field B1) is 'LEI' and the entered code is equal to the LEI of the Executing Entity (Field A6).</p>	E1010

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code		
			NEWM REPL	CANC					
		<p>Where the transaction was executed on a trading venue or on an organised trading platform outside of the relevant jurisdiction 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 relevant jurisdiction shall be used.</p> <p>Where the acquirer is an investment firm acting as an SI, the LEI code of the SI shall be used.</p> <p>'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.</p>				<p>If code type (Field B1) is 'INT':</p> <ul style="list-style-type: none"> An entity mapping must exist for the entered code for the LEI of the Executing Entity The entity mapping must map to an LEI or one or more Natural Persons where Natural Person Type is 'client'. <p>If code type (Field B1) is 'MIC', the entered code must be a valid ISO 10383 MIC (excluding the special codes of 'XXXX' and 'XOFF') for the Trade Date.</p> <p>If code type (Field B1) is 'NAT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field B1) is 'PPT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field B1) is 'CCT':</p> <ul style="list-style-type: none"> The first two characters of the entered code must be a valid ISO 3166 Country Code Character positions 3 to 10 must be equal to Buyer Date of Birth (Field B6). <p>If code type (Field B1) is 'AGG', the entered code must be equal to 'INTC'.</p> <p>If Facilitated Report is equal to BUYR:</p> <ul style="list-style-type: none"> The Buyer must be identified using an LEI or a firm's internal code that maps to an LEI The LEI of the Buyer, as entered or as mapped, must not be equal to the LEI of the Executing Entity A registration must exist to an 'Active' Facilitated Reporting Account for the LEI of the Buyer, as entered or as mapped. 			<p>Missing Static A1183</p> <p>E1011</p> <p>E1012</p> <p>E1013</p> <p>E1014</p> <p>E1015</p> <p>E1017</p> <p>A1195</p> <p>A1196</p> <p>A1197</p>

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
B3 (8)	Buyer Country of Branch	<p>Where the acquirer is a client, this field should identify the country of the branch that received the order from the client or made an investment decision for the client.</p> <p>Where this activity was not conducted by a branch, this should be populated with the country code of the home state of the investment firm or the country code of the country where the investment firm has established its head office or registered office (in case of third country firms).</p>	C	O	A(2)	<p>Must be entered if Buyer is repeated.</p> <p>Must be entered if code type (Field B1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must be a valid ISO 3166 Country Code if entered.</p>	<p>A1148</p> <p>E1162</p> <p>E1021</p>
B4 (9)	Buyer First Names	<p>Full first name(s) of the buyer.</p> <p>Multiple first names shall be delimited by a comma.</p>	C	O	Z(1 to 140)	<p>Must be entered if code type (Field B1) is one of NAT, PPT or CCT.</p> <p>Must not be entered if code type (Field B1) is one of LEI, INT, MIC or AGG.</p>	<p>E1018</p> <p>E1145</p>
B5 (10)	Buyer Surnames	<p>Full surname(s) of the buyer.</p> <p>Multiple surnames shall be delimited by a comma.</p>	C	C	Z(1 to 140)	<p>Must be entered if code type (Field B1) is one of NAT, PPT or CCT.</p> <p>Must not be entered if code type (Field B1) is one of LEI, INT, MIC or AGG.</p>	<p>E1019</p> <p>E1146</p>
B6 (11)	Buyer Date of Birth	Date of birth of the buyer.	C	O	Date	<p>Must be entered if code type (Field B1) is one of NAT, PPT or CCT.</p> <p>Must not be entered if code type (Field B1) is one of LEI, INT, MIC or AGG.</p>	<p>E1020</p> <p>E1147</p>
B7	Buyer Branch Location	Where the Buyer is a branch of an investment firm, the country code of the branch location.	O	O	A(2)	Must be a valid ISO 3166 Country Code if entered.	A1608
C		<p>Buyer Decision Maker (Fields C1 to C5) - only applicable if the decision maker acts under a power of representation:</p> <ul style="list-style-type: none"> • Can repeat for trustees • Fields C2 to C5 are only applicable if the decision maker is a natural person 			Up to a limit of 100 Decision Makers.		
C1	Buyer Decision Maker Code Type	Type of code used to identify the person who makes the decision to acquire the financial instrument	O	O	CODE TYPE	Must not be 'LEI' or 'INT' if Buyer Decision Maker is repeated.	A1143

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
C2 (12)	Buyer Decision Maker Code	<p>Code used to identify the person who makes the decision to acquire the financial instrument.</p> <p>Where the decision is made by an investment firm, this field shall be populated with the identity of the investment firm rather than the individual making the investment decision.</p> <p>Where the decision maker is a legal entity, the LEI code of the decision maker shall be used.</p> <p>Where the decision maker is a non-legal entity, the identifier specified in Article 6 of RTS 22 shall be used.</p>	O	O	CODE	<p>If code type (Field C1) is 'LEI', the entered code must be a valid ISO 17442 LEI with:</p> <ul style="list-style-type: none"> An Initial Registration Date (date component only) that is less than or equal to the date component of Trade Date (Field G1) if Trade Date is greater than the 'LEI Grace Period End Date' (currently defined as 2018-07-02); and An Entity Status of 'Active and a Registration Status of 'Issued', 'Lapsed', 'Pending Transfer' or 'Pending Archival'; or if Entity Status is 'Inactive' and Registration Status is one of 'Merged', 'Retired', 'Pending Transfer' or 'Pending Archival' then the LEI must have been reported as 'Merged' or 'Retired' on or after the Trade Date (Field G1). <p>Investment decision is deemed to be 'within firm' if code type (Field C1) is 'LEI' and the entered code is equal to the LEI of the Executing Entity (Field A6) and neither of Buyer Transmitting Firm Code (Field F3) and Seller Transmitting Firm Code (Field F5) is entered.</p> <p>If Code type (Field C1) is 'INT':</p> <ul style="list-style-type: none"> An entity mapping must exist for the entered code for the LEI of the Executing Entity The entity mapping must map to an LEI or one or more Natural Persons where Natural Person Type is 'client' <p>If code type (Field C1) is 'NAT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field C1) is 'PPT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field C1) is 'CCT':</p> <ul style="list-style-type: none"> The first two characters of the entered code must be a valid ISO 3166 Country Code Character positions 3 to 10 must be equal to Buyer Decision Makers Date of Birth (Field C5). 	<p>E1022</p> <p>Missing Static A1184</p> <p>E1023</p> <p>E1024</p> <p>E1025</p> <p>E1026</p>

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
C3 (13)	Buyer Decision Maker First Names	Full first name(s) of the decision maker for the buyer. Multiple first names shall be delimited by a comma.	C	O	Z(1 to 140)	Must not be entered if code type (Field C1) is 'LEI' or 'INT' or is not entered. Must be entered if code type (Field C1) is one of 'NAT', 'PPT' or 'CCT'.	E1149 E1028
C4 (14)	Buyer Decision Maker Surnames	Full surname(s) of the decision maker for the buyer. Multiple surnames shall be delimited by a comma	C	O	Z(1 to 140)	Must not be entered if code type (Field C1) is 'LEI' or 'INT' or is not entered. Must be entered if code type (Field C1) is one of 'NAT', 'PPT' or 'CCT'.	E1150 E1029
C5 (15)	Buyer Decision Maker Date of Birth	Date of birth of the decision maker for the buyer	C	O	Date	Must not be entered if code type (Field C1) is 'LEI' or 'INT' or is not entered. Must be entered if code type (Field C1) is one of 'NAT', 'PPT' or 'CCT'.	E1151 E1030
D		Seller Details (Fields D1 to D6) - can repeat for joint accounts: <ul style="list-style-type: none"> Fields D3 to D6 are only applicable if the seller is a client Fields D4 to D6 are only applicable if the seller is a natural person. 			Up to a limit of 100 Sellers.		
D1	Seller Code Type	Type of code used to identify the disposer of the financial instrument.	M	O	CODE TYPE	Must not be one of 'LEI', 'MIC', 'INT' or 'AGG' if Seller is repeated.	A1142
D2 (16)	Seller Code	Code used to identify the disposer of the financial instrument. Where the disposer is a legal entity, the LEI code of the disposer shall be used. Where the disposer is a non-legal entity, the identifier specified in Article 6 of RTS 22 shall be used.	M	O	CODE	If code type (Field D1) is 'LEI', the entered code must be a valid ISO 17442 LEI with: <ul style="list-style-type: none"> An Initial Registration Date (date component only) that is less than or equal to the date component of Trade Date (Field G1) if Trade Date is greater than the 'LEI Grace Period End Date' (currently defined as 2018-07-02); and An Entity Status of 'Active' and a Registration Status of 'Issued', 'Lapsed', 'Pending Transfer' or 'Pending Archival'; or if Entity Status is 'Inactive' and Registration Status is one of 'Merged', 'Retired', 'Pending Transfer' or 'Pending Archival' then the LEI must have been reported as 'Merged' or 'Retired' on or after the Trade Date (Field G1). 	E1031

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
		<p>Where the transaction was executed on a trading venue or on an organised trading platform outside of the relevant jurisdiction that utilises a CCP and where the identity of the disposer is not disclosed, the LEI code of the CCP shall be used.</p> <p>Where the transaction was executed on a trading venue or on an organised trading platform outside of the relevant jurisdiction that does not utilise a CCP and where the identity of the disposer is not disclosed, the MIC code of the trading venue or of the organised trading platform outside of the relevant jurisdiction shall be used.</p> <p>Where the disposer is an investment firm acting as a SI, the LEI code of the SI shall be used.</p> <p>'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.</p>				<p>The executing entity is deemed to be the 'seller' if code type (Field D1) is 'LEI' and the entered code is equal to the LEI of the Executing Entity (Field A6).</p> <p>If Code type (Field D1) is 'INT':</p> <ul style="list-style-type: none"> An entity mapping must exist for the entered code for the LEI of the Executing Entity The entity mapping must map to an LEI or one or more Natural Persons where Natural Person Type is 'client' <p>If code type (Field D1) is 'MIC', the entered code must be a valid ISO 10383 MIC (excluding the special codes of 'XXXX' and 'XOFF') for the Trade Date.</p> <p>If code type (Field D1) is 'NAT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field D1) is 'PPT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field D1) is 'CCT':</p> <ul style="list-style-type: none"> The first two characters of the entered code must be a valid ISO 3166 Country Code Character positions 3 to 10 must be equal to Seller Date of Birth (Field D6). <p>If code type (Field D1) is 'AGG', the entered code must be equal to 'INTC'.</p> <p>If Facilitated Report is equal to SELL:</p> <ul style="list-style-type: none"> The Seller must be identified using an LEI or a firm's internal code that maps to an LEI The LEI of the Seller, as entered or as mapped, must not be equal to the LEI of the Executing Entity A registration must exist to an 'Active' Facilitated Reporting Account for the LEI of the Seller, as entered or as mapped. 	<p>Missing Static</p> <p>A1185</p> <p>E1032</p> <p>E1033</p> <p>E1034</p> <p>E1035</p> <p>E1036</p> <p>E1038</p> <p>A1198</p> <p>A1199</p> <p>A1200</p>

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
D3 (17)	Seller Country of Branch	<p>Where the disposer is a client, this field should identify the country of the branch that received the order from the client or made an investment decision for the client.</p> <p>Where this activity was not conducted by a branch, this should be populated with the country code of the home state of the investment firm or the country code of the country where the investment firm has established its head office or registered office (in case of third country firms).</p>	C	O	A(2)	<p>Must be entered if Seller is repeated.</p> <p>Must be entered if code type (Field D1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must be a valid ISO 3166 Country Code if entered.</p>	<p>A1155</p> <p>E1163</p> <p>E1042</p>
D4 (18)	Seller First Names	<p>Full first name(s) of the Seller.</p> <p>Multiple first names shall be delimited by a comma.</p>	C	O	Z(1 to 140)	<p>Must be entered if code type (Field D1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must not be entered if code type (Field D1) is one of 'LEI', 'INT', 'MIC' or 'AGG'.</p>	<p>E1039</p> <p>E1152</p>
D5 (19)	Seller Surnames	<p>Full surname(s) of the Seller.</p> <p>Multiple surnames shall be delimited by a comma.</p>	C	O	Z(1 to 140)	<p>Must be entered if code type (Field D1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must not be entered if code type (Field D1) is one of 'LEI', 'INT', 'MIC' or 'AGG'.</p>	<p>E1040</p> <p>E1153</p>
D6 (20)	Seller Date of Birth	Date of birth of the Seller.	C	O	Date	<p>Must be entered if code type (Field D1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must not be entered if code type (Field D1) is one of 'LEI', 'INT', 'MIC' or 'AGG'.</p>	<p>E1041</p> <p>E1154</p>
D7	Seller Branch Location	Where the Seller is a branch of an investment firm, the country code of the branch location.	O	O	A(2)	Must be a valid ISO 3166 Country Code if entered.	A1609
E		<p>Seller Decision Maker (Fields E1 to E5) - only applicable if the decision maker acts under a power of representation:</p> <ul style="list-style-type: none"> • Can repeat for trustees • Fields E3 to E5 are only applicable if the decision maker is a natural person 			Up to a limit of 100 Decision Makers.		
E1	Seller Decision Maker Code Type	Type of code used to identify the person who makes the decision to dispose of the financial instrument.	O	O	CODE TYPE	Must not be 'LEI' or 'INT' if Seller Decision Maker is repeated.	A1144

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
E3 (22)	Seller Decision Maker First Names	Full first name(s) of the decision maker for the Seller. Multiple first names shall be delimited by a comma.	C	O	Z(1 to 140)	Must be entered if code type (Field E1) is one of 'NAT', 'PPT' or 'CCT'. Must not be entered if code type (Field E1) is 'LEI' or 'INT' or is not entered.	E1049 E1156
E4 (23)	Seller Decision Maker Surnames	Full surname(s) of the decision maker for the Seller. Multiple surnames shall be delimited by a comma	C	O	Z(1 to 140)	Must be entered if code type (Field E1) is one of 'NAT', 'PPT' or 'CCT'. Must not be entered if code type (Field E1) is 'LEI' or 'INT' or is not entered.	E1050 E1157
E5 (24)	Seller Decision Maker Date of Birth	Date of birth of the decision maker for the Seller	C	O	Date	Must be entered if code type (Field E1) is one of 'NAT', 'PPT' or 'CCT'. Must not be entered if code type (Field E1) is 'LEI' or 'INT' or is not entered.	E1051 E1158
F		Transmission of Order Details (Fields F1 to F5)					
F1 (25)	Transmission of Order Indicator	Conditions for transmission of order are not satisfied.	M	O	BOOLEAN	Must be 'False' if Trading Capacity (Field G2) is one of 'DEAL' or 'MTCH'.	E1600
F2	Buyer Transmitting Firm Code Type	Type of code used to identify the firm transmitting the order for the buyer.	O	O	CODE TYPE		

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
G2 (29)	Trading Capacity	Indication of whether the transaction results from the executing firm carrying out matched principal trading or dealing on own account. 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.	M	O	A(4)	Must be one of: <ul style="list-style-type: none"> DEAL: Dealing on Own Account MTCH: Matched principal AOTC: Any other capacity. 	E1057
G3	Quantity Type	Code to define how the quantity is expressed.	M	O	QUANTITY TYPE		
G4 (30)	Quantity	The number of units of the financial instrument, number of derivative contracts in the transaction, or the nominal or monetary value of the financial instrument.	M	O	QUANTITY	Must be greater than zero.	E1058
G5 (31)	Quantity Currency	Currency in which the quantity is expressed. Only applicable if quantity is expressed as nominal or monetary value.	C	O	A(3)	Must be entered if Quantity Type (Field G3) is 'NMNL' or 'MNTR'. Must not be entered if Quantity Type (Field G3) is 'UNIT'. Must be a valid ISO 4217 Currency Code if entered. Must match the currency held by Trax for the instrument if Quantity Type (Field G3) is 'NMNL', Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data.	E1501 E1502 E1059 W3001
G6 (32)	Derivative Notional Increase or Decrease	Indication as to whether the transaction is an increase or decrease of notional of a derivative contract. Field only applies when there is a change in the notional for a derivative contract.	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> INCR: Increase DECR: Decrease. 	E1060
G7 (33)	No Price Indicator	Indication as to whether a price is not applicable or is not available (i.e. is pending).	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> PNDG: Price Pending NOAP: No price for transaction. 	E1061

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
G8 (33)	Price Type	Code to define how the price is expressed.	C	O	PRICE TYPE	<p>Must not be entered if No Price Indicator (Field G7) is entered.</p> <p>Must be entered if No Price Indicator (Field G7) is not entered</p> <p>Must not be 'PRCT' or 'YIEL' if Quantity Type (Field G3) is 'UNIT' and:</p> <ul style="list-style-type: none"> • Instrument Classification Code (Field K2) is entered and indicates the instrument is a Debt Instrument (CFI Code is 'D*****'); or • Instrument Classification Code (Field K2) is not entered; Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data as a debt instrument. 	E1503 E1504 E1159
G9 (33)	Price	<p>Traded price of the transaction excluding, where applicable, commission and accrued interest.</p> <p>Where price is not applicable or where the price is available but pending, the field is not populated.</p> <p>Where price is reported in monetary terms, price should be provided in the major currency unit.</p>	C	O	PRICE		
G10 (34)	Price Currency	<p>Currency in which the price is expressed.</p> <p>Applicable if the price is expressed as monetary value.</p>	C	O	A(3)	<p>Must be entered if No Price Indicator (Field G7) is not entered and Price Type (Field G8) is 'MNTR'.</p> <p>Must not be entered if No Price Indicator (Field G7) is entered or if No Price Indicator (Field G7) is not entered and Price Type (Field G8) is one of 'PRCT', 'YIEL' or 'BSPS'.</p> <p>Must be a valid ISO 4217 Currency Code if entered.</p>	E1505 E1506 E1064
G11 (35)	Net Amount	<p>The cash amount paid by the buyer of a debt instrument upon the settlement of the transaction.</p> <p>Excludes any commission or other fees charged to the buyer of the debt instrument.</p> <p>Only applicable to debt instruments</p>	C	O	Decimal 18/5	<p>Must be entered if Instrument Classification Code (Field K2) is entered and indicates the instrument is a Bond (CFI Code is 'DB*****').</p> <p>Must be entered if Instrument Classification Code (Field K2) is not entered, Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data as a Bond (i.e. CFI Code held for the instrument is 'DB*****').</p>	E1065 E1065

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
G12 (36)	Trading Venue	<p>Identification of the venue where the transaction was executed.</p> <p>The ISO 10383 segment MIC should be used for transactions executed on a trading venue, an SI or organised trading platform outside of the relevant jurisdiction.</p> <p>The MIC 'XOFF' should be used for financial instruments admitted to trading, or traded on a trading venue where a request for admission was made, where the transaction in that financial instrument is not executed on a trading venue, SI, or organised trading platform outside of the relevant jurisdiction; or where the investment firm does not know it is trading with another investment firm acting as an SI.</p> <p>The MIC 'XXXX' should be used 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 relevant jurisdiction; but where the underlying is admitted to trading or traded on a trading venue.</p>	O	O	C(4)	<p>Must populated, either as entered or post enrichment and must be a valid ISO 10383 MIC (including the special codes of 'XXXX' and 'XOFF') for the Trade Date.</p> <p>Must not be 'XXXX', as entered or enriched, if:</p> <ul style="list-style-type: none"> • Instrument Identification Code (Field H1) is entered and is TOTV, or • Instrument Identification Code (Field H1) is entered, is UTOTV and the instrument has been reported to the relevant Instrument Reference Data system; or • Instrument Identification Code (Field H1) is entered, MiFID Eligibility Override (Field X1) is entered and is 'TOTV' or 'True'. 	<p>E1066</p> <p>E1007</p>

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
G13 (37)	Membership Country of Branch	<p>Code to identify the country of a branch of the investment firm whose market membership was used to execute the transaction.</p> <p>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).</p> <p>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 relevant jurisdiction.</p>	C	O	A(2)	<p>Must be entered if Trading Venue (Field G7), as entered or as enriched, is a Trading Venue or is not one of 'XOFF', 'XXXX' or an SI (for <u>either</u> jurisdiction).</p> <p>Must be a valid ISO 3166 Country Code if entered.</p>	E1067 E1068
G14 (38)	Up Front Payment	<p>Monetary value of any up-front payment received or paid by the seller.</p> <p>Where the seller receives the up-front payment, the value entered should be positive. Where the seller pays the up-front payment, the value entered should be negative.</p>	C	O	[N] Decimal 18/5	<p>Must be entered if Instrument Classification Code (Field K2) is entered and indicates the instrument is a Credit Swap (CFI Code is 'SC*****').</p> <p>Must be entered if Instrument Classification Code (Field K2) is not entered, Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data and the CFI Code held indicates the instrument is a Credit Swap (CFI Code is 'SC*****').</p>	E1069 E1069
G15 (39)	Up Front Payment Currency	Currency of the up-front payment.	C	O	A(3)	<p>Must be entered if Up Front Payment (Field G14) is entered.</p> <p>Must not be entered if Up Front Payment (Field G14) is not entered.</p> <p>Must be a valid ISO 4217 Currency Code if entered.</p>	E1507 E1508 E1070
G16 (40)	Complex Component Id Trade	<p>Identifier, internal to the reporting firm to identify all the reports related to the same execution of a combination of financial instruments.</p> <p>The code must be unique at the level of the firm for the group of reports related to the execution</p>	O	O	C(1 to 35)		

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
H		Financial Instrument Id					
H1 (41)	Instrument Identification Code	<p>Code used to identify the financial instrument.</p> <p>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 an SI.</p> <p>It also applies to financial instruments which have an ISIN and are traded on organised trading platform outside of the relevant jurisdiction where the underlying is a financial instrument traded on a trading venue.</p>	C	O	ISIN	<p>Must be entered if Trading Venue (Field G12), as entered or enriched, is a Trading Venue or an SI.</p> <p>Trax <u>can</u> onward report using Field (41) only if:</p> <ul style="list-style-type: none"> • Instrument Identification Code is entered, is TOTV and the Instrument Eligibility option is configured for the submission account, or • Instrument Identification Code is entered, is UTOTV, the Instrument Eligibility option is configured for the submission account and the instrument has been reported to the relevant Instrument Reference data system; or • Instrument Identification Code is entered, the Instrument Eligibility Option is configured for the submission account and MiFID Eligibility Override is entered and is 'TOTV' or 'True'; or • Instrument Identification Code is entered, the Instrument Eligibility option is not configured for the submission account and none of fields 42 to 56 are entered. 	E1078
H2	Exchange Product Code	<p>Code maintained by the derivative exchanges to identify the product.</p> <p>Field is used to support ISIN lookup.</p>	O	O	C(1 to 35)		
H3	Issuer MIC	<p>ISO Market Identification Code (MIC) of the regulated market that admits the derivative to trading.</p> <p>Field is used to support ISIN lookup.</p>	C	O	A(4)	<p>Must be entered if Exchange Product Code (Field H2) is entered Instrument Identification Code (Field H1) is not entered and the ISIN lookup option is configured for the submission account.</p> <p>If entered, must be a valid ISO 10383 MIC for the Trade Date.</p> <p>Note; the above rules are applied as part of the ISIN Lookup operation. The failure of above rules is reported in the Trax Response (Trax Operation Status) and will not result in a transaction rejection.</p>	

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K		Financial Instrument Id (Other) Sequence K is not applicable for financial instruments for which a request for admission to trading has been made, that are admitted to trading, or traded on a Trading Venue for the relevant jurisdiction.					
K1 (42)	Instrument Full Name	Full name of the financial instrument	C	O	T(1 to 350)	Must be entered, on initial submission or post enrichment, if: <ul style="list-style-type: none"> • Trading Venue, as entered or as enriched, is 'XXXX', or • Instrument Identification Code (Field H1) is not entered, or • Instrument Identification Code (Field H1) is entered, is UTOTV and the Instrument Eligibility option is configured for the submission account, or • MiFID Eligibility Override is entered and is 'UTOTV' and the Instrument Eligibility option is configured for the submission account, or • Instrument Identification Code (Field H1) is entered, is not 'TOTV' and is not 'UTOTV' and Instrument Eligibility is 'Opted in' with 'Report None' for the submission account and the transaction is to be reported; or • Any of fields (43) to (56) are entered. Note; the above rule is not applied if the transaction <u>can</u> be reported using field (41) only.	E1081

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code			
			NEWM REPL	CANC						
K2 (43)	Instrument Classification Code	<p>Taxonomy used to classify the financial instrument.</p> <p>A complete and accurate CFI code shall be provided.</p>	C	O	A(6)	<p>Must be entered, on initial submission or post enrichment, if:</p> <ul style="list-style-type: none"> • Trading Venue, as entered or as enriched, is 'XXXX', or • Instrument Identification Code (Field H1) is not entered, or • Instrument Identification Code (Field H1) is entered, is UTOTV and the Instrument Eligibility option is configured for the submission account, or • MiFID Eligibility Override is entered and is 'UTOTV' and the Instrument Eligibility option is configured for the submission account, or • Instrument Identification Code (Field H1) is entered, is not 'TOTV' and is not 'UTOTV' and Instrument Eligibility is 'Opted in' with 'Report None' for the submission account and the transaction is to be reported; or • Any of fields (42), or (44) to (56) are entered. <p>Must be a full valid ISO 10962 CFI Code if entered.</p> <p>Must be one of the following, on initial submission or post enrichment, if Option Exercise Style (Field K30) is 'EURO':</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O*E***') • Unlisted/Complex Options (CFI Codes 'H**A**', 'H**D**' and 'H**G**') • Entitlements (CFI Codes 'RW***E' and RF***E'). <p>Must be one of the following, on initial submission or post enrichment, if Option Exercise Style (Field K30) is 'AMER':</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O*A***') • Unlisted/Complex Options (CFI Codes 'H**B**', 'H**E**' and 'H**H**') • Entitlements (CFI Codes 'RW***A' and RF***A') 	A1072	E1085	E1601	E1601

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K9 (45)	Notional Currency 2	For multi-currency or cross-currency swaps the currency in which leg 2 of the contract is denominated.	C	O	A(3)	<p>Must not be entered if Notional Currency 1 (Field K8), as entered or enriched, is not entered.</p> <p>Must be entered, on initial submission or post enrichment, for the following types of derivative as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Swaps with the following CFI Code: SF**** • Futures with the following CFI Code: FFC****. <p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Options with the following CFI Codes: O**S**, O**D**, O**T**, O**N** • Futures with the following CFI Codes: FFS**, FFD**, FFN**, FFV**, FC**** • Swaps with the following CFI Codes: ST**** • Complex options with the following CFI Codes: HT****, HE****, HF**** • Other classes of instruments with the following CFI Codes: R****, E****, C****, D****, J****. <p>Must be a valid ISO 4217 Currency Code if entered.</p> <p>Note; the above rules are not applied if the transaction <u>can</u> be reported using field (41) only.</p>	E1087 E1090 E1095 E1088

Trax Report Technical Specification CSV File Format

Ref.	Field Header		Description	M/O/C		Format	Business Rule	Reason Code
				NEWM REPL	CANC			
			<p>Fields K13 to K18 define the underlying instrument.</p> <p>For a swap contract, defines the leg for which the buyer is <u>receiving</u> the performance.</p>					
K13 (47)	Underlying Code	Instrument	<p>ISIN code of the underlying instrument.</p> <p>For ADRs, GDRs and similar instruments, the ISIN code of the financial instrument on which those instruments are based.</p> <p>For convertible bonds, the ISIN code of the instrument in which the bond can be converted.</p> <p>For derivatives or other instruments, which have an underlying, the ISIN of the underlying instrument when the underlying is admitted to trading, or traded on a trading venue. Where the underlying is a stock dividend, then ISIN code of the related share underlying the stock dividend.</p> <p>For Credit Default Swaps, the ISIN of the reference obligation shall be provided.</p> <p>In case the underlying is an Index and has an ISIN, the ISIN code for that index.</p> <p>Where the underlying is a basket, include the ISIN code of each constituent of the basket that is admitted to trading or is traded on a trading venue. This field should be repeated as many times as necessary to list all reportable instruments in the basket.</p>	C	O	<p>ISIN</p> <p>Up to a limit of 1,000 instrument codes.</p>	<p>If a single ISIN Code is entered, the ISIN code entered must match the underlying instrument held by Trax for the instrument if Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data.</p>	W3006

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K14 (48)	Underlying Index Code	<p>When the underlying is an index, the code for the index.</p> <p>Where the underlying is a basket, include the code of the index for each constituent of the basket. This field should be repeated as many times as necessary to list all indexes in the in the basket</p>	O	O	<p>A(4)</p> <p>Up to a limit of 20 index codes.</p>	<p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Debt Instruments (CFI Codes 'DB****', 'DT****' and 'DY****') • Equities (CFI Code 'E*****'). <p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • EONA: EONIA • EONS: EONIA SWAP • EURI: EURIBOR • EUUS: EURODOLLAR • EUCH: EuroSwiss • GCFR: GCF REPO • ISDA: ISDAFIX • LIBI: LIBID • LIBO: LIBOR • MAAA: Muni AAA • PFAN: Pfandbriefe • TIBO: TIBOR • STBO: STIBOR • BBSW: BBSW • JIBA: JIBAR • BUBO: BUBOR • CDOR: CDOR • CIBO: CIBOR • MOSP: MOSPRIM • NIBO: NIBOR • PRBO: PRIBOR • TLBO: TELBOR • WIBO: WIBOR • TREA: Treasury • SWAP: SWAP • FUSW: Future SWAP. <p>Note; the above rules are not applied if the transaction <u>can</u> be reported using field (41) only.</p>	<p>E1525</p> <p>E1094</p>

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K15	ANNA Underlying Index Code	<p>The name of the index or rate used by ANNA – DSB to generate an OTC ISIN.</p> <p>Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau.</p> <p>Please refer to the ISIN Lookup Guide for further information on the usage of the field.</p>	O	O	<p>T(1 to 350)</p> <p>Up to a limit of 20 index names</p>		
K16	ANNA Underlying Instrument Index Prop	<p>Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Used for Custom Indices.</p> <p>Please refer to the ISIN Lookup Guide for further information on the usage of the field.</p>	O	O	T(1 to 350)		

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K17 (48)	Underlying Index Name	<p>The name of the index if the index name is not included in the code list for Field K14.</p> <p>Where the underlying is a basket, include the name of the index for each constituent of the basket. This field should be repeated as many times as necessary to list all indexes in the in the basket.</p>	C	O	<p>T(1 to 25)</p> <p>Up to a limit of 20 index names.</p>	<p>Must be entered, on initial submission or post enrichment, if Underlying Instrument Code (Field K13) and Underlying Index Code (Field K14) are not entered, the transaction is not a swap transaction (Instrument Classification Code, as entered or as enriched is not 'S****') and one of the following is true:</p> <ul style="list-style-type: none"> • Trading Venue, as entered or as enriched, is 'XXXX', or • Instrument Identification Code (Field H1) is not entered, or • Instrument Identification Code (Field H1) is entered, is UTOTV and the Instrument Eligibility option is configured for the submission account' or • MiFID Eligibility Override is entered and is 'UTOTV' and the Instrument Eligibility option is configured for the submission account, or • Instrument Identification Code (Field H1) is entered, is not 'TOTV' and is not 'UTOTV' and Instrument Eligibility is 'Opted in' with 'Report None' for the submission account and the transaction is to be reported; or • Any of fields (42) to (46) and (49) to (56) are entered. 	E1523
						<p>Must be entered, on initial submission or post enrichment, for the following derivatives/instruments as defined by CFI Code (Field K2) if Underlying Index Code (Field K15) is not entered:</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O**I**' and 'O**N**') • Futures (CFI Codes 'FFI***' and 'FFN***') • Entitlements (CFI Code 'RWI***'). 	E1524
						<p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Debt Instruments (CFI Codes 'DB****', 'DT****' and 'DY****') • Equities (CFI Code 'E*****'). <p>Note; the above rules are not applied if the transaction <u>can</u> be reported using field (41) only.</p>	E1525

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K18 (49)	Underlying Index Term	<p>When the underlying is an index, the term of the index.</p> <p>Where the underlying is a basket, include the index term for each constituent of the basket. This field should be repeated as many times as necessary to list all indexes in the in the basket.</p>	C	O	9(3)A(4) Up to a limit of 20 index terms.	<p>Must not be entered if Underlying Index Code (Field K14) and Underlying Index Name (Field K17) are not entered.</p> <p>Must be entered, on initial submission or post enrichment, for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O**N**') • Futures (CFI Code 'FFN***'). <p>If entered, integer component 9(3) must be in the range 1 to 365.</p> <p>If entered, period component A(4) must be one of:</p> <ul style="list-style-type: none"> • DAYS: Days • WEEK: Weeks • MNTH: Months • YEAR: Year. <p>Note; the above rules are not applied if the transaction <u>can</u> be reported using field (41) only.</p>	E1083 E1082 E1096 E1096
		Fields K19 to K24 define the leg for which the buyer is <u>paying</u> the performance for a swap contract.					
K19 (47)	Underlying Instrument Code Other Leg	<p>ISIN code of the underlying instrument.</p> <p>See Field K13 for description.</p>	O	O	ISIN Up to a limit of 1,000 instrument codes.		

Trax Report Technical Specification CSV File Format

Ref.	Field Header			Description	M/O/C		Format	Business Rule	Reason Code
					NEWM REPL	CANC			
K20 (48)	Underlying Other Leg	Index	Code	When the underlying is an index, the code for the index.	O	O	A(4) Up to a limit of 20 index codes.	Must be one of the following if entered: <ul style="list-style-type: none"> • EONA: EONIA • EONS: EONIA SWAP • EURI: EURIBOR • EUUS: EURODOLLAR • EUCH: EuroSwiss • GCFR: GCF REPO • ISDA: ISDAFIX • LIBI: LIBID • LIBO: LIBOR • MAAA: Muni AAA • PFAN: Pfandbriefe • TIBO: TIBOR • STBO: STIBOR • BBSW: BBSW • JIBA: JIBAR • BUBO: BUBOR • CDOR: CDOR • CIBO: CIBOR • MOSP: MOSPRIM • NIBO: NIBOR • PRBO: PRIBOR • TLBO: TELBOR • WIBO: WIBOR • TREA: Treasury • SWAP: SWAP • FUSW: Future SWAP. Note; the above rule is not applied if the transaction <u>can</u> be reported using field (41) only.	E1104
K21	ANNA Code	Underlying Other Leg	Index	The name of the index or rate used by ANNA – DSB to generate an OTC ISIN. Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 350) Up to a limit of 20 index names		

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K22	ANNA Underlying Instrument Index Prop Other Leg	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Used for Custom Indices. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 350)		
K23 (48)	Underlying Index Name Other Leg	The name of the index if the index name is not included in the code list for Field K19.	O	O	T(1 to 25) Up to a limit of 20 index names.	Must be entered if Underlying Instrument Code Other Leg (Field K19) and Underlying Index Code Other Leg (Field K20) are not entered, the transaction is a swap transaction (Instrument Classification Code, as entered or as enriched is 'S*****') and if Underlying Instrument Code (Field K13) and Underlying Index Code (Field K14) and Underlying Index Name (Field K17) are not entered. Note; the above rule is not applied if the transaction <u>can</u> be reported using fields (41) only.	E1522
K24 (49)	Underlying Index Term Other Leg	When the underlying is an index, the term of the index.	C	O	9(3)A(4) Up to a limit of 20 index terms.	Must not be entered if Underlying Index Code Other Leg (Field K20) and Underlying Index Name Other Leg (Field K23) are not entered. If entered, integer component 9(3) must be in the range 1 to 365. If entered, period component A(4) must be one of: <ul style="list-style-type: none"> • DAYS: Days • WEEK: Weeks • MNTH: Months • YEAR: Year. Note: the above rules are not applied if the transaction can be reported using fields (41) only.	A1117 E1111 E1111
K25 (50)	Option Type	Indication as to whether the derivative contract is a call (right to purchase a specific underlying asset) or a put (right to sell a specific underlying asset) or whether it cannot be determined whether it is a call or a put at the time of execution. Field only applies to derivatives that are options or warrants.	C	O	A(4)	Must be entered, on initial submission or post enrichment, for the following derivatives/instruments as defined by CFI Code (Field K2): <ul style="list-style-type: none"> • Listed Options (CFI Code 'O*****') • Unlisted/Complex Options (CFI Code 'H*****') • Warrants (CFI Code 'RW*****'). 	E1164

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
						<p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Futures (CFI Code is 'F*****') • Swaps (CFI Code 'S*****') • Equites (CFI Code 'E*****') • Collective Instruments (CFI Code 'C*****') • Debt Instrument (CFI Code 'D*****') • Forwards (CFI Code 'J*****'). 	E1165
						<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • PUTO: Put • CALL: Call • OTHR: Unknown. 	E1097
						<p>Must be 'PUTO', on initial submission or post enrichment, for the following as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Put Options (CFI Code 'OP*****') • Unlisted/Complex Put Options (CFI Codes 'H**D**', 'H**E**' and 'H**F**'). • Warrants with the Put attribute (CFI Code 'RW**P*'). 	E1166
						<p>Must be 'CALL', on initial submission or post enrichment, for the following as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Call Options (CFI Code 'OC*****') • Unlisted/Complex Call Options (CFI Codes 'H**A**', 'H**B**' and 'H**C**'). • Warrants with the Call attribute (CFI Code 'RW**C*'). 	E1166
						<p>Must be 'OTHR', on initial submission or post enrichment, for the following as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Other Listed Options (CFI Code 'OM*****') • Unlisted/Complex Options (CFI Code 'H**G**', 'H**H**' and 'H**I**') • Warrants with the Call and Put attribute (CFI Code 'RW**B*'). 	E1166
						<p>Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.</p>	

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K29 (52)	Strike Price Currency	Currency of the Strike Price	C	O	A(3)	<p>Must be entered if Strike Price Type (Field K27) is 'MNTR'.</p> <p>Must not be entered if No Strike Price Indicator (Field K26) is entered.</p> <p>Must not be entered if Strike Price Type (Field K27) is one of 'PRCT', 'YIEL' or 'BSPS'.</p> <p>Must be a valid ISO 4217 Currency Code if entered.</p> <p>Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.</p>	E1510 E1511 E1511 E1100
K30 (53)	Option Exercise Style	<p>Indication as to whether the option may be exercised only at a fixed date (European, and Asian style), a series of pre-specified dates (Bermudan) or at any time during the life of the contract (American style).</p> <p>The field is only applicable for options, warrants and entitlement certificates.</p>	C	O	A(4)	<p>Must be entered, on initial submission or post enrichment, for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O*****') • Unlisted/Complex Options (CFI Code 'H*****') • Warrants (CFI Code 'RW*****'). <p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Futures (CFI Code is 'F*****') • Swaps (CFI Code 'S*****') • Equites (CFI Code 'E*****') • Collective Instruments (CFI Code 'C*****') • Debt Instrument (CFI Code 'D*****') • Forwards (CFI Code 'J*****'). <p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • EURO: European • AMER: American • ASIA: Asian • BERM: Bermudan • OTHR: Any other type. <p>Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.</p>	E1169 E1170 E1101

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K31 (54)	Maturity Date	Date of maturity of the financial instrument. Field only applies to debt instruments with defined maturity.	C	O	Date	<p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Entitlements (CFI Code is 'R*****') • Listed Options (CFI Code 'O*****') • Futures (CFI Code 'F*****') • Swaps (CFI Code 'S*****') • Equities (CFI Code 'E*****') • Collective Instruments (CFI Code 'C*****') • Non Listed/Complex Options (CFI Code 'H*****') • Forwards (CFI Code 'J*****'). 	E1172
						<p>Must be entered, on initial submission or post enrichment, for the following instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Debt Instruments (CFI Code 'D*****'). <p>Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.</p>	E1173
K32 (55)	Expiry Date	Expiry date of the financial instrument. Field only applies to derivatives with a defined expiry date.	C	O	Date	<p>Must be entered, on initial submission or post enrichment, for the following derivatives as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Options (CFI Code 'O*****') • Futures (CFI Code 'F*****') • Credit Forwards (CFI Code 'JC**F*'). 	E1174
						<p>Must not be entered for the following derivatives/instruments as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Equities (CFI Code 'E*****') • Collective Instruments (CFI Code 'C*****') • Debt Instruments (CFI Code 'D*****') 	E1175
						<p>Must be greater than or equal to Trade Date (Field G1) if entered.</p> <p>Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.</p>	E1102

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K33 (56)	Delivery Type	<p>Indication as to whether the transaction is settled physically or in cash.</p> <p>Where delivery type cannot be determined at time of execution, the value shall be 'OPTL'.</p> <p>This field is only applicable for derivatives.</p>	C	O	A(4)	<p>Must be entered, on initial submission or post enrichment, if:</p> <ul style="list-style-type: none"> • Trading Venue, as entered or as enriched, is 'XXXX', or • Instrument Identification Code (Field H1) is not entered, or • Instrument Identification Code (Field H1) is entered, is UTOTV and the Instrument Eligibility option is configured for the submission account, or • MiFID Eligibility Override is entered and is 'UTOTV' and the Instrument Eligibility option is configured for the submission account, or • Instrument Identification Code (Field H1) is entered, is not 'TOTV' and is not 'UTOTV' and Instrument Eligibility is 'Opted in' with 'Report None' for the submission account and the transaction is to be reported; or • Any of fields (42) to (55) are entered. 	E1103
						<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • PHYS: Physically Settled • CASH: Cash Settled • OPTL: Optional 	E1105
						<p>Must be 'PHYS', on initial submission or post enrichment, for the following physically delivered derivatives as defined by CFI Code (Field K2):</p> <ul style="list-style-type: none"> • Listed Options (CFI Codes 'OC**P*' and 'OP**P*') • Futures (CFI Code 'F**P**') • Swaps (CFI Code 'S****P') • Non Listed/Complex Options (CFI Code 'H****P') • Foreign Exchange Spots (CFI Code 'IF***P') • Forwards (CFI Code 'J****P') • Loan Lease Financing (CFI Code 'LL ***P'). 	E1177

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
						Must be 'CASH', on initial submission or post enrichment, for the following cash derivatives as defined by CFI Code (Field K2): <ul style="list-style-type: none"> • Listed Options (CFI Codes 'OC**C*' and 'OP**C*') • Futures (CFI Code 'F**C**') • Rate Swaps (CFI Code 'SR***C') • Commodity Swaps (CFI Code 'ST***C') • Equity Swaps (CFI Code 'SE***C') • Credit Swap (CFI Code 'SC***C') • Other (miscellaneous) Swaps (CFI Code 'SM***C') • Non Listed/Complex Options (CFI Code 'H****C') • Forwards (CFI Code 'J****C') • Loan Lease Financing (CFI Code 'LL ***C'). Note: the above rules are not applied if the transaction <u>can</u> be reported using fields (41) only.	E1177
K34	Valuation Method or Trigger	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 50)		
K35	Return or Pay Out Trigger	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 50)		
K36	ANNA Non Standard	Indication as to whether the product is an exotic OTC (Non-standard) or not. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	BOOLEAN	Default to false if not entered.	
K37	Underlying Issuer Type	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 50)		

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
K38	Place of Settlement	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	A(2)		
K39	Single or Multi Currency	Field is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the field.	O	O	T(1 to 50)		
M		Financial Instrument Id (Commodities) Sequence M is specific to commodity derivatives and is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the fields.					
M1	Commodity Base Product	Base product for the underlying asset class.	O	O	A(4)		
M2	Commodity Sub Product	The sub product for the underlying asset class.	O	O	A(4)		
M3	Commodity Further Sub Product	The further sub product for the underlying asset class.	O	O	A(4)		
M4	Commodity Transaction Type	Transaction Type as specified by the trading venue.	O	O	A(4)		
M5	Final Price Type	Final price type as specified by the trading venue.	O	O	A(4)		
M6	Other Commodity Base Product	Other base product for the underlying asset class.	O	O	A(4)		
M7	Other Commodity Sub Product	Other sub product for the underlying asset class.	O	O	A(4)		
M8	Other Commodity Further Sub Product	Other further sub product for the underlying asset class.	O	O	A(4)		

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
N		<p>Financial Instrument Id (Rates)</p> <p>Sequence N is specific to interest rate derivatives and is used to support ISIN lookup from the ANNA Derivatives Service Bureau.</p> <p>Please refer to the ISIN Lookup Guide for further information on the usage of the fields.</p>					
N1	Rates Notional Currency 2	<p>For multi-currency or cross-currency swaps, the currency in which leg 2 of the contract is denominated.</p> <p>For swaptions where the underlying swap is multi-currency, the currency in which leg 2 of the swap is denominated.</p>	O	O	A(3)		
N2	Notional Schedule	Indicates if the notional amount of a swap is constant or if it changes through the life of the contract.	O	O	T(1 to 50)		
N3	Term of Contract	The term of the Rates contract.	O	O	9(3)A(4)	<p>If entered, integer component 9(3) must be in the range 1 to 365.</p> <p>If entered, period component A(4) must be one of:</p> <ul style="list-style-type: none"> • DAYS: Days • WEEK: Weeks • MNTH: Months • YEAR: Year. 	<p>A1610</p> <p>A1610</p>
P		<p>Financial Instrument Id (Foreign Exchange)</p> <p>Sequence P is specific to foreign exchange derivatives and is used to support ISIN lookup from the ANNA Derivatives Service Bureau.</p> <p>Please refer to the ISIN Lookup Guide for further information on the usage of the fields.</p>					

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
P1	FX Notional Currency 2	For multi-currency or cross-currency swaps, the currency in which leg 2 of the contract is denominated. For swaptions where the underlying swap is multi-currency, the currency in which leg 2 of the swap is denominated.	O	O	A(3)		
P2	Settlement Currency	Settlement currency.	O	O	A(3)		
R		Financial Instrument Id (Credit) Sequence N is specific to credit derivatives and is used to support ISIN lookup from the ANNA Derivatives Service Bureau. Please refer to the ISIN Lookup Guide for further information on the usage of the fields.					
R1	Seniority	Seniority of the underlying.	O	O	A(4)		
R2	Underlying Index Series	The series number of the composition of the underlying index.	O	O	9(3)		
R3	Underlying Index Version	The version number of the series where an index is re-weighted.	O	O	9(3)		
T		Investment Decision Within Firm (Fields T1 to T3).					
T1	Investment Decision Within Firm Code Type	Type of code used to identify the person or algorithm within the investment firm who is responsible for the investment decision.	C	O	CODE TYPE		

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
T2 (57)	Investment Decision Within Firm Code	Code used to identify the person or algorithm within the investment firm who is responsible for the investment decision. Field only applies for investment within the firm.	C	O	CODE	<p>Must be entered if Trading Capacity (Field G2) is DEAL and Transmitting Firm Identification Code for both the buyer and seller (Fields F2 and F3) is not populated.</p> <p>Must be entered if Trading Capacity (Field G2) is MTCH or AOTC and investment decision is deemed to be 'within firm' or is deemed to be 'within transmitting firm'.</p> <p>Must not be entered if Trading Capacity is MTCH or AOTC and investment decision is not deemed to be 'within firm' and is not deemed to be 'within transmitting firm'.</p> <p>If code type (Field T1) is 'INT':</p> <ul style="list-style-type: none"> An entity mapping must exist for the entered code for the LEI of the Executing Entity The entity mapping must map to a (single) Natural Persons where Natural Person Type is 'internal role' <p>If code type (Field T1) is 'NAT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field B1) is 'PPT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field B1) is 'CCT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p>	E1106 E1107 E1140 Missing Static A1189 E1108 E1109 E1110
T3 (58)	Responsible Country of Branch	Code to identify the country of the branch of the investment firm for the person responsible for the investment decision. This field is not applicable when the investment decision was made by an algorithm.	C	O	A(2)	<p>Must not be entered if code type (Field T1) is 'ALG' or is not entered.</p> <p>Must be entered if code type (Field T1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must be a valid ISO 3166 Country Code if entered.</p>	E1160 E1112 E1113
U		Execution Within Firm (Fields U1 to U3).					
U1	Execution Within Firm Code Type	Type of code used to identify the person or algorithm within the investment firm who is responsible for the execution.	M	O	CODE TYPE		

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
U2 (59)	Execution Within Firm Code	Code used to identify the person or algorithm within the investment firm who is responsible for the execution.	M	O	CODE	<p>If code type (Field U1) is 'INT':</p> <ul style="list-style-type: none"> An entity mapping must exist for the entered code for the LEI of the Executing Entity The entity mapping must map to a (single) Natural Persons where Natural Person Type is 'internal role'. <p>If code type (Field U1) is 'NAT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field U1) is 'PPT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field U1) is 'CCT', the first two characters of the entered code must be a valid ISO 3166 Country Code.</p> <p>If code type (Field U1) is 'CLT', the entered code must be 'NORE'.</p>	<p>Missing Static A1190</p> <p>E1114</p> <p>E1115</p> <p>E1116</p> <p>E1027</p>
U3 (60)	Supervising Country of Branch	<p>Code used to identify the country of the branch of the investment firm for the person responsible for the execution of the transaction.</p> <p>This field is not applicable when the execution was made by an algorithm.</p>	C	O	A(2)	<p>Must not be entered if code type (Field U1) is 'ALG'.</p> <p>Must be entered if code type (Field U1) is one of 'NAT', 'PPT' or 'CCT'.</p> <p>Must be a valid ISO 3166 Country Code if entered.</p>	<p>E1161</p> <p>E1118</p> <p>E1119</p>

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
W		Waivers and Flags (Fields W1 to W5)					
W1 (61)	Waiver Indicators	<p>Indication as to whether the transaction was executed under a pre-trade waiver in accordance with Articles 4 and 9 of Regulation (EU) 600/2014.</p> <p>For equity instruments:</p> <ul style="list-style-type: none"> • 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 <p>For non-equity instruments</p> <ul style="list-style-type: none"> • SIZE - Above specific size transaction • ILQD - illiquid instrument transaction <p>This field should only be populated for the market side of a transaction executed under a waiver on a trading venue.</p>	C	O	<p>A(4)</p> <p>Up to a limit of 6 indicators.</p>	<p>Must not be entered if Trading Venue (Field G12), as entered or post enrichment, is not a Trading Venue.</p> <p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • RFPT: Reference price • NLIQ: Negotiated liquid • OILQ: Negotiated illiquid • PRIC: Negotiated conditions • SIZE: Above specified size • ILQD: Illiquid instrument. <p>Multiple indicators can be populated, but a specific indicator must not be repeated.</p> <p>The following waiver indicators must not be entered if Instrument Identification Code (Field H1) is entered and exists in the Trax Securities Reference data as an equity instrument:</p> <ul style="list-style-type: none"> • SIZE • ILQD. 	<p>E1120</p> <p>E1121</p> <p>E1122</p> <p>E1132</p>

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
W2 (62)	Short Selling Indicator	<p>A short sale concluded by an investment firm on its own behalf or on behalf of a client, as described in Article 11 of RTS 22.</p> <p>Where an investment firm executes a transaction on behalf of a client who is selling and the investment firm, acting on a best efforts basis, cannot determine it is a short sale transaction, this field shall be populated with 'UNDI'.</p> <p>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.</p> <p>This field is only applicable when, the instrument is covered by Regulation (EU) 236/2012, and the seller is the investment firm or a client of the investment firm</p>	C	O	A(4)	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • SESH: Short sale with no exemption • SSEX: Short sale with exemption • SELL: No short sale • UNDI: Information not available. 	E1123

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
W3 (63)	OTC Post Trade Indicators	<p>Indicator as to the type of transaction in accordance with Articles 20(3)(a) and 21(5)(a) of Regulation (EU) 600/2014.</p> <p>For all instruments:</p> <ul style="list-style-type: none"> • 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 <p>For equity instruments:</p> <ul style="list-style-type: none"> • 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 <p>For non-equity instruments:</p> <ul style="list-style-type: none"> • TPAC - Package transaction • XFPH - Exchange for Physical transaction. 	C	O	<p>A(4)</p> <p>Up to a limit of 12 indicators</p>	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • BENC: Benchmark • ACTX: Agency cross • LRGS: Large-in-scale • ILQD: Illiquid instrument • SIZE: Above specific size • CANC: Cancellations • AMND: Amendments • SDIV: Special dividend • RPRI: Price improvement • DUPL: Duplicative • TNCP: Not contributing to price discovery • TPAC: Package • XFPH: Exchange for physical. <p>Multiple indicators can be populated, but a specific indicator must not be repeated.</p> <p>The following OTC post trade indicators must not be entered if Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data as an equity instrument:</p> <ul style="list-style-type: none"> • TPAC • XFPH. <p>The following OTC post trade indicators must not be entered if Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference data as a non-equity instrument:</p> <ul style="list-style-type: none"> • SDIV • RPRI • DUPL • TNCP. <p>The field will be enriched using the transparency flags set for the associated APA trade report (see Field X2) if not entered where Trading Venue (Field G12), as entered or post enrichment, is not a Trading Venue (or a Venue outside the jurisdiction) and the Enrich from Trax APA Data option is selected for the submission account.</p>	<p>E1125</p> <p>E1126</p> <p>E1134</p> <p>E1135</p>

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
W4 (64)	Commodity Derivative Indicator	Indication as to whether the transaction reduces risk in an objectively measurable way in accordance with Article 57 of Directive 2014/65/EU.	C	O	BOOLEAN	Must be entered if Instrument Identification Code (Field H1) is entered and exists in the Trax Instrument Reference and Commodity Derivative Indicator held for the instrument is 'True'.	E1178
W5 (65)	Securities Financing Transaction Indicator	Indication that a transaction falls within the scope of activity but is exempted from reporting under [Securities Financing Transactions Regulation]. The field should be populated with the value 'N' (False) where the transaction does not fall within the scope of activity under [Securities Financing Regulation]	M	O	BOOLEAN		
X		Miscellaneous (Fields X1 to X13)					
X1	MiFID Eligibility Override	Indication as to whether the Trax instrument eligibility assessment is to be overridden for the transaction.	O	O	E(4 to 5)	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • True • False • TOTV • UTOTV • NRPT. <p>Must not be 'True' or 'TOTV' if Instrument Identification Code (Field H1) is not entered.</p> <p>Where the field is entered and the MiFID Eligibility option is configured for the submission account, the Trax instrument eligibility assessment will be overridden as illustrated in the diagrams presented in Section 2.9 above (note that 'True' is equivalent to 'TOTV').</p>	E1602 E1602

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
X2	Trade Report Number	Identification number internal to the executing firm that is unique for each Trade Report submitted to the Trax APA Service by the firm.	O	O	T(1 to 100)	<p>Where the Enrich from Trax APA Data option is selected for the submission account and Trading Venue (Field G12), as entered or post enrichment, is not a Trading Venue (or a Venue outside the jurisdiction) an APA Trade Report must exist for the entered identification number for the LEI of the Executing Firm.</p> <p>The field will be ignored if entered if Trading Venue (Field G12), as entered or post enrichment, is a Trading Venue (or a venue outside of the jurisdiction) or if the Enrich from Trax APA Data option is not configured for the submission account.</p>	A1191

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
X3	Transaction Flag	<p>Conveys the meaning of a transaction as defined in Article 2 of RTS 22.</p> <p>Please refer to Section 10 below for the mapping between the Transaction Flag values and the ESMA Text.</p> <p>Field is used in relation to the filtering of transactions.</p>	O	O	A(4)	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • BUYI - acquisition of a financial instrument • SELL - disposal of a financial instrument • TRFR - simultaneous acquisition and disposal of a financial instrument with no change in beneficial owner • SFTR - securities financing transaction • CLST - transaction arising exclusively for clearing or settlement purposes • NETT - transaction relates settlement of mutual obligations where net obligation is carried forward • CUST - transaction arising solely as a result of custodial activity • ASGN - post trade assignment or novation in a derivative contract where one of the parties is replaced by a third party • CPMR - portfolio compression • FUND - creation of redemption of a fund by the fund administrator • EXER - result of an exercise of a financial instrument • PREC - result of pre-determined contractual terms, or as a result of mandatory events which are beyond the control of the investor where no investment decision by the investor takes place • OPTN - result of pre-determined contractual terms where the investment decision amounts to a choice by the investor to enter into the transaction • CHNG - change in the composition of an index or basket post execution • DRIP - an acquisition under a dividend re-investment plan. 	A1084

Trax Report Technical Specification CSV File Format

Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
X4	Execution Flag	Conveys the meaning of the execution of a transaction as defined in Article 3 of RTS 22.	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> • TMSN - reception and transmission of orders in relation to one or more financial instruments • CLNT - execution of orders on behalf of clients • DEAL - dealing on own account • DISC - making an investment decision in accordance with a discretionary mandate given by a client • TRFR - transfer of financial instruments to or from accounts. 	A1092
X5	Client Type	Field is used in relation to best execution (RTS 28) and SI reporting.	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> • PROF - Professional • RETL - Retail • SECF - Securities Financing. 	A1093
X6	Passive Indicator Aggressive	Field is used in relation to best execution (RTS 28).	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> • PASV - passive • AGRE - aggressive. 	A1128
X7	Directed Order	Field is used in relation to best execution (RTS 28).	O	O	BOOLEAN		
X8	Report Type	Indicates if the submitted report relates to a block, allocation or fill. Field is used in relation to best execution (RTS 28).	O	O	A(4)	Must be one of the following if entered: <ul style="list-style-type: none"> • BLCK - Block • ALOC - Allocation • FILL - Fill. 	A1136
X9	Order Identifier	Field is designed to help tie together transactions that relate to the same order for example fills and allocations in order to aid exception management.	O	O	T(1 to 35)	Must be entered if Facilitated Report (Field X12) is one of BUYR or SELL.	A1203

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Ref.	Field Header	Description	M/O/C		Format	Business Rule	Reason Code
			NEWM REPL	CANC			
		<p>User Defined Fields</p> <p>Fields X10 and X11 represent a field defined by the sending source that can be attached to a transaction to aid reconciliation and facilitate reporting rules.</p> <p>Fields X10 and X11 can be repeated for each field that the sending source wishes to attach to a transaction.</p> <p>User defined fields will not be onward reported to the relevant national competent authority.</p>			<p>Up to a limit of 10 User Defined Fields.</p> <p>See group field components below.</p>	A Field Identifier must not be repeated.	A1182
X10	User Defined Field Identifier	Identifier assigned to the field by the sending source	O	O	T(1 to 35)		
X11	User Defined Field Value	The value of the user defined field for the transaction.	O	O	T(1 to 35)		
X12	Facilitated Report	Indicates which party, the buyer or the seller, a facilitated report is to be created for.	O	O	A(4)	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • BUYR - the facilitated report is to be created for the Buyer • SELL - the facilitated report is to be created for the Seller. <p>If entered, Executing Entity (Field A6) must be configured for facilitated reporting for the submission account.</p>	A1201 A1202
X13	Broker Trading Capacity	Field is used in relation to best execution (RTS 28).	O	O	A(4)	<p>Must be one of the following if entered:</p> <ul style="list-style-type: none"> • DEAL: Dealing on Own Account • MTCH: Matched principal • AOTC: Any other capacity. 	A1603
X14	CNMV Supplementary Reporting	Flags a transaction as supplementary reporting to facilitate the onward submission of the transaction to CNMV in special 'Request' files.	O	O	BOOLEAN		

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7.5 Entity Mapping Enrichment Operation

An entity mapping can map to an LEI or one or more natural persons.

Where a firm's internal code maps to an LEI, the internal code submitted by the executing entity is replaced with the LEI held for the mapping.

Where a firm's internal code maps to a natural person:

- The internal code submitted by the executing entity is replaced with the relevant priority Natural Person Identifier (i.e. one of Passport, National Id or Concatenated Code) according to Country of Nationality held for the mapping; and
- The First Name(s), Surnames(s) and Date of Birth fields (where relevant) are enriched with the details held for the mapping.

Trax will also enrich Country of Branch (where relevant) using the Country of Branch held for the mapping where Country of Branch is not populated on the transaction submission.

Where a firm's internal code maps to multiple natural persons, the relevant account owner or decision party sequence is repeated for each natural person held for the mapping.

7.6 Client Specific Filtering

Trax Report supports the optional filtering of transactions via user defined filters. Multiple filters can be defined and each filter will be applied to each transaction submission.

A filter is comprised of a number of field rules. Each field rule will execute a test on a target field within a transaction submission. The test will be positive if the contents of the target field obey the field rule; that is:

- The value of the target field is included in a defined set of values
- The value of the target field is not included in a defined set of values
- The value of the target field is equal to a defined value
- The value of the target field is greater than a defined value
- The value of the target field is less than a defined value
- The target field is entered
- The target field is not entered.

Note that a field rule can be defined for any field within a transaction submission. The defined values for the test will inherit the format defined for the target field; for example:

- A defined set of values for Venue will be a list of Market Identifier Codes
- A defined value for Executing Firm will be a Legal Entity Identifier
- A defined set of values for Quantity will be defined by a minimum and maximum integer.

The field rules comprising a filter are combined into a logical expression using the 'AND' and 'OR' logical operators, thus it is possible to construct a filter that would trigger if the following logical expression is true:

- Trading Capacity is equal to 'DEAL' OR
- Trading Capacity is equal to 'AOTC' AND
- Transmission of Order Indicator is equal to 'True'.

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If the logical expression for a filter is true¹⁶, then the action defined for the filter is taken. A filter action can be one of:

- Do not report - the transaction is not onward reported to the relevant NCA; or
- Warning only - the transaction is onward reported and warning W3010 is returned.

Note that it is not practical to define a field rule for a field that is subject to a variable value such as a date or a monetary value. Therefore, Trax Report will derive certain fields for which a field rule can be defined:

- Asset Class - derived if the reported instrument exists in the Trax Instrument Reference data
- USD Equivalent Quantity
- USD Equivalent Notional.

7.7 Field Defaults

Trax Report supports the optional enrichment of report submissions via field defaults.

A field default is comprised of a number of field rules that operate in the same way as field rules for Client Specific Filters (see Section 7.6 above). If the logical expression for a field default is true, the default value is assigned to the field to which the field default applies.

¹⁶ Logical operator precedence is applied; i.e. AND is evaluated before OR.

8 OUTBOUND FILES - FIELD FORMAT

8.1 Outbound Format

The template presented in the following section defines the business format for the following types of outbound file created by Trax Report:

- Transaction response files (File Type RESP); and
- Transaction status update files (File Type STAT).

The template uses the same terminology as the submission format defined in Section 7 above except where a field is indicated as always present (M), optionally present (O) or not present (-) for a Message Type.

Trax Report will create outbound files in CSV format. Note that each field in the template will be included in the correct order including where a field is not required to be populated for the message type with the exception of Reason(s).

Reason(s) is a repeating sequence with the maximum number of occurrences being set at defined limit of 65 reasons. The field is placed at the end of the template to allow the record terminator to 'delimit' the repeating sequence.

An example CSV response can be obtained from Client Services Management.

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8.2 Outbound Message

The following points should be noted:

- A file error response will contain only one rejection (Reason)
- A transaction response/status update with a status of AREJ or RREJ will contain one or more rejections (Reasons)
- A transaction response/status update with a status of AACK or NRPT may contain zero, one or more warnings (Reasons).

Ref.	Field Header	Description	Format	Message Type			Content
				RESP	STAT	FILE	
A		Message Details					
A1	Message Type	Defines the type of outbound message	A(4)	M	M	M	RESP - transaction response STAT - transaction status update FILE - file error response
A2	Executing Entity Code Type	The type of code used to identify the executing entity	CODE TYPE	O	M	-	As entered on the submitted transaction. Field will be blank if Executing Entity Code Type cannot be determined.
A3	Executing Entity Code	Code used to identify the entity executing the transaction.	CODE	O	M	-	As entered on the submitted transaction. Field will be blank if Executing Entity Code cannot be determined.
A4	Transaction Reference Number	Identification number internal to the executing firm that is unique for each transaction submitted by the firm.	C(1 to 52)	O	M	-	As entered on the submitted transaction. Field will be blank if Transaction Reference Number cannot be determined.
A5	Report Status	Indication as to whether the transaction is a new, a cancellation or amendment.	A(4)	O	M	-	NEWM - New transaction REPL - Transaction amend CANC - Cancel transaction As entered on the submitted transaction. Field will be blank if Report Status cannot be determined.
A6	Submission Date	The submission date for the transaction/file	Date	O	O	O	Extracted from the file name of the submission file in which the transaction was submitted. Field will be blank if Submission Date cannot be determined.
A7	Related Message Id	The Message Id to which this outbound message relates	X(1 to 255)	O	O	-	As entered on the submitted transaction. Field will be blank if Message Id was not populated on the transaction or if Trax is unable to determine the Message Id.

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Ref.	Field Header	Description	Format	Message Type			Content
				RESP	STAT	FILE	
A8	Transaction Status	<p>Status of the transaction.</p> <p>Note that the status for a transaction will remain at NPDN if a subsequent submission for the same transaction is reported to the NCA within the 7-day pending period.</p>	A(4)	M	M	-	<p>For Message Type RESP:</p> <p>NRPT - Not reported AACK - Accepted by ARM AREJ - Rejected by ARM HELD - Awaiting Replay.</p> <p>For Message Type STAT:</p> <p>RACK - Accepted by NCA RREJ - Rejected by NCA NRCV - Received by NCA NPND - Pending instrument validation (NCA) NRPT - Not reported AACK - Accepted by ARM AREJ - Rejected by ARM.</p>
A9	Transaction Status Reason	<p>Reason why a transaction is HELD - Awaiting Replay or NRPT - Not reported.</p> <p>Note that the status reason for a transaction will remain at INST if a subsequent submission for the same transaction is received in the assessment period.</p>	A(4)	O	O	-	<p>For status NRPT - Not reported:</p> <p>INST – Non reportable instrument (subject to reassessment) INSF – Non reportable instrument (final) FLAG - Non reportable transaction flag NRPC - transaction not active at NCA CLIF - Client specific filter RLSD - Released from exception queue by later submission.</p> <p>For status HELD - Awaiting Replay:</p> <p>EMAP- missing entity mapping NCAQ - previous transaction pending NCA file creation.</p>
A10	Client Code	The Client Code of the client specific filter that resulted in the transaction being filtered (not reported).	X(1 to 35)	O	O	-	
		<p>Trax Operation Status</p> <p>Fields A11 to A13 provide the status of a Trax processing operation.</p> <p>In the current service, Fields A11 to A13 will not repeat as only a single status operation can be returned.</p>					

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Ref.	Field Header	Description	Format	Message Type			Content
				RESP	STAT	FILE	
A11	Operation Type	Type of operation performed.	A(4)	O	O	-	ILKP - ISIN Lookup
A12	Operation Status	Status of the operation.	A(4)	O	O	-	PACK - Operation successful NRES - No result for operation EERR - Error with operation.
A13	Operation Status Reason	Further information regarding the status of the operation.	T(1 to 1024)	O	O	-	
A14	Number of Reasons	Number of Reasons to be included prior to the record terminator	9(2)	M	M	M	Will be zero where no Reason(s) are returned.
B	Reason(s) - optional repeating sequence up to Number of Reasons (maximum of 65 Reasons).						
B1	Reason Code	Reason Code	T(7)	O	O	O	See Reason Codes and Descriptions.
B2	Related Field	Field number for which the Reason is reported.	C(2 to 4)	O	O	O	Field is will be blank if the reason does not relate to a specific field.
B3	Related Field Sequence Number	Sequence Number where Related Field occurs in a repeatable sequence.	9(4)	O	O	O	Field will be blank if the field number for which the Reason is reported does not occur in a repeatable sequence.
B4	Description	Reason description	T(1 to 255)	O	O	O	See Reason Codes and Descriptions.

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8.3 Reason Codes and Descriptions

The following sections provide a list of reason codes that can be returned by Trax Report. Reasons can be returned in the following outbound message types:

- A file error response for a rejected file submission
- A transaction response to a submitted transaction
- A transaction status update returning feedback on the result of transaction replay within Trax, or on the onward submission of a transaction to the relevant NCA.

A rejection reason returned in a file error response means that the file submission has been rejected and none of the transactions submitted in the file have been processed.

A rejection reason returned in a transaction response means that the transaction has been rejected by Trax and cannot be onward submitted to the relevant NCA.

A rejection reason returned in a transaction status update means:

- A transaction has been rejected on replay by Trax and cannot be onward submitted to the relevant NCA; or
- A transaction has been rejected by the NCA.

A warning reason returned in a transaction response/status update means that the transaction has been accepted by Trax and can be onward submitted to the relevant NCA.

8.3.1 File Rejections

A submission file can be rejected for one of the following reasons:

Reason Code	Description	Withdrawn
9001	Duplicate submission file	
9002	Invalid submission file structure	Yes
9003	Unused	
9004	Unused	
9005	Unused	
9006	Submission Date is in the future or is more than 1 day prior to the current date	
9007	Unused	
9008	Submission Account Id not recognised	
9009	Unused	
9010	Unused	
9011	Filename does not conform to the required naming convention	
9012	Invalid submission format for submission file	
9013	Submission Number is invalid - not in sequence	
9014	Invalid Header – non-repeatable field is repeated	
9015	Invalid Header – repeating field missing or out of order	
9016	Invalid Header – field name not recognised	
9017	Invalid submission – minimum number of records not submitted	
9018	Invalid submission – maximum number of records exceeded	

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Reason Code	Description	Withdrawn
9019	Invalid submission – record length exceeded for one or more records	
9020	Invalid submission – records submitted with incorrect number of fields	

8.3.2 Transaction Rejections – Syntax Validation

When processing a submitted transaction, a check is performed to ensure that the transaction meets the required syntax. If the transaction fails at this point, the transaction is rejected and a single rejection is returned for the transaction: Reason Code 2999 - "Invalid syntax for <field name>"; where <field name> is the Field Header of the field in error.

8.3.3 Transaction Rejections - Business Validation

Where a transaction passes syntax, business validation is performed on the transaction. Each field is validated in turn and a transaction may be rejected with one or more of the following reasons. Note that Prefix indicates the source of the business validation rule (E = ESMA, A = ARM).

The 'Withdrawn' column indicates that the reason is no longer reported for new submissions, but the reason code may have been reported for historic transactions.

Reason Code	Description	Withdrawn
E1001	Report Status is invalid	
E1002	Duplicate Transaction Report	
E1003	Transaction Report does not exist or is already cancelled	
A1004	Rejected - transaction held for more than 7 days	
E1005	Trading Venue Transaction Identification Code must not be entered for OTC transactions and transactions not executed on a Trading Venue	
A1006	Executing Entity is not registered to the Submission Account	
E1007	Reported Trading Venue is inconsistent with reference data for the given instrument - admitted to trading	
E1008	Executing Firm must be the buyer or seller when dealing on own account basis	
E1009	Executing Firm must not be the buyer or seller when dealing in any other capacity or a matched principal basis	Yes
E1010	Legal Entity Identifier (LEI) entered for the Buyer is invalid	
E1011	Market Identifier Code (MIC) entered for the Buyer is invalid	
E1012	National Identifier entered for the Buyer is invalid - first two characters must be a valid Country Code	
E1013	Passport Number entered for the Buyer is invalid - first two characters must be a valid Country Code	
E1014	Concatenated Code entered for the Buyer is invalid - first two characters must be a valid Country Code	
E1015	Concatenated Code entered for the Buyer is invalid - Date of Birth component must match Buyer Date of Birth	
E1016	Legal Entity Identifier (LEI) entered for the Executing Firm is invalid	
E1017	Aggregate Client Account entered for the Buyer must be INTC	
E1018	Buyer First Name(s) must be entered if Buyer is a natural person	

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Reason Code	Description	Withdrawn
E1019	Buyer Surname(s) must be entered if Buyer is a natural person	
E1020	Buyer Date of Birth must be entered if Buyer is a natural person	
E1021	Country of Branch for the Buyer must be a valid Country Code	
E1022	Legal Entity Identifier (LEI) entered for the Buyer Decision Maker is invalid	
E1023	National Identifier entered for the Buyer Decision Make is invalid - first two characters must be a valid Country Code	
E1024	Passport Number entered for the Buyer Decision Maker is invalid - first two characters must be a valid Country Code	
E1025	Concatenated Code entered for the Buyer Decision Make is invalid - first two characters must be a valid Country Code	
E1026	Concatenated Code entered for the Buyer Decision Maker is invalid - Date of Birth component must match Buyer Decision Maker Date of Birth	
E1027	Client entered for Execution within Firm must be NORE	
E1028	Buyer Decision Maker First Name(s) must be entered if Buyer Decision Maker is a natural person	
E1029	Buyer Decision Maker Surname(s) must be entered if Buyer Decision Maker is a natural person	
E1030	Buyer Decision Maker Date of Birth must be entered if Buyer Decision Maker is a natural person	
E1031	Legal Entity Identifier (LEI) entered for the Seller is invalid	
E1032	Market Identifier Code (MIC) entered for the Seller is invalid	
E1033	National Identifier entered for the Seller is invalid - first two characters must be a valid Country Code	
E1034	Passport Number entered for the Seller is invalid - first two characters must be a valid Country Code	
E1035	Concatenated Code entered for the Seller is invalid - first two characters must be a valid Country Code	
E1036	Concatenated Code entered for the Seller is invalid - Date of Birth component must match Seller Date of Birth	
1037	Unused	
E1038	Aggregate Client Account entered for the Seller must be INTC	
E1039	Seller First Name(s) must be entered if Seller is a natural person	
E1040	Seller Surname(s) must be entered if Seller is a natural person	
E1041	Seller Date of Birth must be entered if Seller is a natural person	
E1042	Country of Branch for the Seller must be a valid Country Code	
E1043	Legal Entity Identifier (LEI) entered for the Seller Decision Maker is invalid	
E1044	National Identifier entered for the Seller Decision Make is invalid - first two characters must be a valid Country Code	
E1045	Passport Number entered for the Seller Decision Maker is invalid - first two characters must be a valid Country Code	

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Reason Code	Description	Withdrawn
E1046	Concatenated Code entered for the Seller Decision Make is invalid - first two characters must be a valid Country Code	
E1047	Concatenated Code entered for the Seller Decision Maker is invalid - Date of Birth component must match Seller Decision Maker Date of Birth	
1048	Unused	
E1049	Seller Decision Maker First Name(s) must be entered if Seller Decision Maker is a natural person	
E1050	Seller Decision Maker Surname(s) must be entered if Seller Decision Maker is a natural person	
E1051	Seller Decision Maker Date of Birth must be entered if Seller Decision Maker is a natural person	
E1052	Trading Capacity must be AOTC if conditions for transmission of order are not satisfied	Yes
E1053	Legal Entity Identifier (LEI) entered for the Transmitting Firm for Buyer is invalid	
E1054	Legal Entity Identifier (LEI) entered for the Transmitting Firm for Seller is invalid	
E1055	Only one of Transmitting Firm for the Buyer or Seller can be entered	Yes
E1056	Trade Date Time must not be in the future	
E1057	Trading Capacity is invalid	
E1058	Quantity must be greater than zero	
E1059	Quantity currency is invalid	
E1060	Derivative notional increase/decrease is invalid	
E1061	No Price Indicator (Price) is invalid	
1062	Unused	
E1063	Trade Date is too far in the past	
E1064	Price currency is invalid	
E1065	Net Amount must be entered for debt instruments	
E1066	Trading Venue is invalid	
E1067	Country of Branch of membership must be entered for the market side report for a transaction executed on a venue	
E1068	Country of Branch of membership is invalid	
E1069	Up-front payment must be entered for the given instrument	
E1070	Up-front payment currency is invalid	

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Reason Code	Description	Withdrawn
1071	Unused	
A1072	Instrument Classification must be entered for the given instrument	
1073	Unused	
1074	Unused	
E1075	Notional currency 1 must be entered for the given instrument	
1076	Unused	
1077	Unused	
E1078	Instrument Identification Code must be entered for the market side report of a transaction executed on a Trading Venue or Systematic Internaliser	
1079	Unused	
1080	Unused	
E1081	Instrument Full Name must be entered for the given instrument	
E1082	Underlying Index Term must be entered for the given instrument	
E1083	Index Term must not be entered for the given Underlying Instrument	
A1084	Transaction Flag is invalid	
E1085	Instrument Classification is invalid	
E1086	Notional currency 1 is invalid	
E1087	Notional currency 2 must not be entered without Notional currency 1	
E1088	Notional currency 2 is invalid	
E1089	Price Multiplier must be entered for the given instrument	
E1090	Notional currency 2 must be entered for the given instrument	
E1091	Price multiplier must be greater than zero	
A1092	Execution Flag is invalid	
A1093	Client Type is invalid	
E1094	Code for Underlying Index is invalid for Underlying Instrument	
E1095	Notional currency 2 must not be entered for the given instrument	
E1096	Term of Underlying Index is invalid for Underlying Instrument	
E1097	Option Type is invalid	
E1098	No Price Indicator (Strike Price) is invalid	
1099	Unused	
E1100	Strike Price currency is invalid	
E1101	Option Exercise Style is invalid	
E1102	Expiry Date must be greater than or equal to Trade Date	
E1103	Delivery Type must be entered for the given instrument	
E1104	Code for Underlying Index is invalid for Underlying Instrument Other Leg	
E1105	Delivery Type is invalid	
E1106	Investment Decision within Firm must be entered when dealing on own account	

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Reason Code	Description	Withdrawn
E1107	Investment Decision within Firm must be entered where the Firm is the investment decision maker for the client	
E1108	National Identifier entered for Investment Decision within Firm is invalid - first two characters must be a valid Country Code	
E1109	Passport Number entered for Investment Decision within Firm is invalid - first two characters must be a valid Country Code	
E1110	Concatenated Code entered for Investment Decision within Firm is invalid - first two characters must be a valid Country Code	
E1111	Term of Underlying Index is invalid for Underlying Instrument Other Leg	
E1112	Country of Branch responsible must be entered where Investment Decision within Firm is a natural person	
E1113	Country of Branch responsible must be a valid Country Code	
E1114	National Identifier entered for Execution within Firm is invalid - first two characters must be a valid Country Code	
E1115	Passport Number entered for Execution within Firm is invalid - first two characters must be a valid Country Code	
E1116	Concatenated Code entered for Execution within Firm is invalid - first two characters must be a valid Country Code	
A1117	Index Term must not be entered for the given Underlying Instrument Other Leg	
E1118	Country of Branch supervising must be entered where Execution within Firm is a natural person	
E1119	Country of Branch supervising must be a valid Country Code	
E1120	Waiver Indicator must not be entered if the transaction was not executed on a Trading Venue	
E1121	Waiver Indicator is invalid	
E1122	A Waiver Indicator cannot be repeated	
E1123	Short Selling Indicator is invalid	
E1124	OTC Post-trade Indicator must not be entered if the transaction was executed on a Trading Venue	Yes
E1125	OTC Post-trade Indicator is invalid	
E1126	An OTC Post-trade Indicator cannot be repeated	
1127	Unused	
A1128	Passive Aggressive Indicator is invalid	
A1129	Duplicate transaction	Yes
E1130	Trading Capacity must be one of AOTC or DEAL when reporting details received from a transmitting firm	Yes
1131	Unused	
E1132	Waiver Indicator is invalid for equity instruments	
1133	Unused	
E1134	OTC post trade indicator is invalid for equity instruments	
E1135	OTC post trade indicator is invalid for non-equity instruments	

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Reason Code	Description	Withdrawn
A1136	Report Type is invalid	
1137	Unused	
1138	Unused	
1139	Unused	
E1140	Investment Decision within Firm must not be entered where Firm is not the investment decision maker for the client	
A1141	Invalid format used to identify the Buyer for a joint account	
A1142	Invalid format used to identify the Seller for a joint account	
A1143	Invalid format used to identify the Buyer Decision Make for trustees	
A1144	Invalid format used to identify the Seller Decision Maker for trustees	
E1145	Buyer First Name(s) must not be entered if Buyer is not a natural person or if the Buyer details are to be enriched	
E1146	Buyer Surnames(s) must not be entered if Buyer is not a natural person or if the Buyer details are to be enriched	
E1147	Buyer Date of Birth must not be entered if Buyer is not a natural person or if the Buyer details are to be enriched	
A1148	Country of Branch for the Buyer must be entered - joint client account	
E1149	Buyer Decision Maker First Name(s) must not be entered if Buyer Decision Maker is not entered, is not a natural person or if the Buyer Decision Maker details are to be enriched	
E1150	Buyer Decision Maker Surnames(s) must not be entered if Buyer Decision Maker is not entered, is not a natural person or if the Buyer Decision Maker details are to be enriched	
E1151	Buyer Decision Maker Date of Birth must not be entered if Buyer Decision Maker is not entered, is not a natural person or if the Buyer Decision Maker details are to be enriched	
E1152	Seller First Name(s) must not be entered if Seller is not a natural person or if the Seller details are to be enriched	
E1153	Seller Surnames(s) must not be entered if Seller is not a natural person or if the Seller details are to be enriched	
E1154	Seller Date of Birth must not be entered if Seller is not a natural person or if the Seller details are to be enriched	
A1155	Country of Branch for the Seller must be entered - joint client account	
E1156	Seller Decision Maker First Name(s) must not be entered if Seller Decision Maker is not entered, is not a natural person or if the Seller Decision Maker details are to be enriched	
E1157	Seller Decision Maker Surnames(s) must not be entered if Seller Decision Maker is not entered, is not a natural person or if the Seller Decision Maker details are to be enriched	
E1158	Seller Decision Maker Date of Birth must not be entered if Seller Decision Maker is not entered, is not a natural person or if the Seller Decision Maker details are to be enriched	
E1159	Price Type is not consistent with Quantity Type	

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Reason Code	Description	Withdrawn
E1160	Country of Branch responsible must not be entered where Investment Decision within Firm is not entered or is a trading algorithm	
E1161	Country of Branch supervising must not be entered where Execution within Firm is a trading algorithm	
E1162	Country of Branch for the Buyer must be entered if the buyer is a natural person	
E1163	Country of Branch for the Seller must be entered if the seller is a natural person	

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Reason Code	Description	Withdrawn
E1164	Option Type must be entered for the given instrument (CFI Code)	
E1165	Option Type must not be entered for the given instrument (CFI Code)	
E1166	Option Type is invalid for the given instrument (CFI Code)	
E1167	Strike Price must be entered for the given instrument (CFI Code)	
E1168	Strike Price must not be entered for the given instrument (CFI Code)	
E1169	Option Exercise Style must be entered for the given instrument (CFI Code)	
E1170	Option Exercise Style must not be entered for the given instrument (CFI Code)	
E1171	Option Exercise Style is invalid for the given instrument (CFI Code)	Yes
E1172	Maturity Date must not be entered for the given instrument (CFI Code)	
E1173	Maturity Date must be entered for the given instrument (CFI Code)	
E1174	Expiry Date must be entered for the given instrument (CFI Code)	
E1175	Expiry Date must not be entered for the given instrument (CFI Code)	
1176	Unused	
E1177	Delivery Type is invalid for the given instrument (CFI Code)	
E1178	Commodity Derivative Indicator must be entered for the given instrument	
E1179	Commodity Derivative Indicator must not be entered for the given instrument	Yes
A1180	Trade Date Time cannot be converted to UTC - time zone for sending source is unknown	
1181	Unused	
A1182	Field Identifier (User Defined Field) must not be repeated	
A1183	Invalid enrichment operation for Buyer	
A1184	Invalid enrichment operation for Buyer Decision Maker	
A1185	Invalid enrichment operation for Seller	
A1186	Invalid enrichment operation for Seller Decision Maker	
A1187	Invalid enrichment operation for Transmitting Firm for the Buyer	
A1188	Invalid enrichment operation for Transmitting Firm for the Seller	
A1189	Invalid enrichment operation for Investment Decision within Firm	
A1190	Invalid enrichment operation for Execution within Firm	
A1191	Unable to enrich OTC Post Trade Indicator from APA Post Trade report	
1192	Unused	
1193	Unused	
1194	Unused	
A1195	Buyer must be identified using an LEI if facilitated report is requested for the Buyer	
A1196	Buyer must not be the Executing Entity if facilitated report is requested for the Buyer	
A1197	Buyer is not configured for facilitated reporting	
A1198	Seller must be identified using an LEI if facilitated report is requested for the Seller	
A1199	Seller must not be the Executing Entity if facilitated report is requested for the Seller	

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Reason Code	Description	Withdrawn
A1200	Seller is not configured for facilitated reporting	
A1201	Facilitated Report is invalid	
A1202	Facilitated Reporting is not configured for the Executing Entity	
A1203	Order Id must be entered if facilitated report is requested	
1204 to 1500	Unused	
E1501	Quantity Currency must be entered for the given Quantity	
E1502	Quantity Currency must not be entered for the given Quantity	
E1503	Price must not be entered if there is no price for the transaction or if the price is pending	
E1504	Price must be entered for the transaction	
E1505	Price Currency must be entered for the given Price	
E1506	Price Currency must not be entered for the given Price	
E1507	Up-front Payment Currency must be entered for the transaction	
E1508	Up-front Payment Currency must not be entered for the transaction	
E1509	Strike Price must not be entered if the strike price is pending	
E1510	Strike Price Currency must be entered for the given Strike Price	
E1511	Strike Price Currency must not be entered for the given Strike Price	
1512 to 1521	Unused	
E1522	Details must be entered for at least one of Underlying Instrument or Underlying Instrument Other Leg for a Swap transaction	
E1523	At least one of Underlying Instrument Code or Underlying Index Code/Name must be entered for the given instrument	
E1524	Underlying Index Code/Name must be entered for the given instrument	
E1525	Underlying Index Code/Name must not be entered for the given instrument	
E1600	Transmission of Order Indicator must be 'false' if Trading Capacity is one of DEAL or MTCH	
E1601	CFI Code is inconsistent with Option Exercise Style	
E1602	MiFID Eligibility Override is invalid	
A1603	Broker Trading Capacity is invalid	
A1604	NCA cannot be amended for the transaction	
A1605	NCA is not configured for the executing entity	
A1606	Executing Branch Location cannot be amended for the transaction	
A1607	Executing Branch Location is invalid	
A1608	Buyer Branch Location is invalid	
A1609	Seller Branch Location is invalid	
A1610	Term of Contract is invalid	

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8.3.4 Transaction Warnings

Where a transaction passes business validation, additional checks in relation to MiFID eligibility and data quality will be performed on the transaction. The additional checks may result in one or more of the following warnings being returned for the transaction.

The 'Withdrawn' column indicates that the reason is no longer reported for new submissions, but the reason code may have been reported for historic transactions.

Reason Code	Description	Withdrawn
W3001	Reported Nominal Value is inconsistent with reference data for the given instrument - currency mismatch	
W3002	Trade time is outside trading hours for Trading Venue	Yes
W3003	Reported Price is inconsistent with market data for the given instrument - outside tolerance	Yes
W3004	Reported Trading Venue is inconsistent with reference data for the given instrument - not admitted	Yes
W3005	Reported Instrument Classification is inconsistent with reference data for the given instrument - code mismatch	
W3006	Underlying Instrument Code is inconsistent with reference data for the given instrument	
W3007	Unused	
W3008	Unused	
W3009	Reported - non-MiFID eligible	
W3010	Filter <Filter Description ¹⁷ > triggered for transaction	

8.3.5 Transaction Rejections – NCA

Where a transaction is rejected, Trax will pass-through the error code and error text returned in the feedback from the NCA in the Reason Code and Reason Description of the transaction status update.

¹⁷ The description for the filter as defined during the on-boarding process.

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9 REFERENCE DATA AND STANDARDS

Trax will comply with and validate against a range of ISO standards and reference data sources as part of the transaction reporting process. The standards used and the field applied to, are specified below.

Standard	Field Description	Comments
ISO 17442 (LEI)	Executing Entity, Buyer, Seller, Buyer Decision Maker, Seller Decision Maker, Buyer Transmitting Firm and Seller Transmitting Firm.	LEI codes are maintained on a daily basis by subscription the Global Legal Entity Identifier Foundation (GLEIF) LEI index.
ISO 4217 (Currency Code)	Quantity, Price, Up Front Payment, Notional Currency 1, Notional Currency 2, Strike Price	Trax Report will not accept transactions in metal currencies (XAG, XAU, XPD, XPT).
ISO 10383 (MIC)	Trading Venue, Buyer, Seller and Issuer MIC	To comply with CA requirements, Trax maintains a time series for identifying the period in which the code was valid; i.e. from date of insertion to date of deletion.
ISO 6166 (ISIN)	Instrument Identification Code, Underlying Instrument Code and Underlying Instrument Code Other Leg.	Trax maintains reference data for instruments that are traded on a trading venue (TOTV) and instruments where the underlying is traded on a trading venue (UTOTV). Coverage includes listed equities, warrants and fixed income securities, exchange traded futures and options and OTC derivatives (where an ISIN is allocated via the ANNA DSB).

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10 MAPPING TO RTS 22 ARTICLE 1

Para.	ESMA Text	Transaction Flag Enumeration/Comment
1.	For the purposes of Article 26 of Regulation (EU) No 600/2014, the conclusion of an acquisition or disposal of a financial instrument referred to in Article 26(2) of Regulation (EU) No 600/2014 shall constitute a transaction.	
2.	An acquisition referred to in paragraph 1 shall include the following: a) a purchase of a financial instrument; b) entering into a derivative contract; c) an increase in the notional amount of a derivative contract.	BUYI - acquisition of a financial instrument
3.	A disposal referred to in paragraph 1 shall include the following: a) sale of a financial instrument; b) closing out of a derivative contract; c) a decrease in the notional amount of a derivative.	SELL - disposal of a financial instrument
4.	For the purposes of Article 26 of Regulation (EU) No 600/2014, transaction shall also include a simultaneous acquisition and disposal of a financial instrument where there is no change in the ownership of that financial instrument but post-trade publication is required under Articles 6, 10, 20 or 21 of Regulation (EU) No 600/2014.	TRFR - simultaneous acquisition and disposal of a financial instrument with no change in beneficial owner
5.	A transaction for the purposes of Article 26 of Regulation (EU) No 600/2014 shall not include the following:	
	a) Securities financing transactions as defined in Article 3(11) of Regulation (EU) 2015/2365 of the European Parliament and of the Council	SFTR - securities financing transaction
	b) a contract arising exclusively for clearing or settlement purposes	CLST - transaction arising exclusively for clearing or settlement purposes
	c) a settlement of mutual obligations between parties where the net obligation is carried forward	NETT - transaction relates settlement of mutual obligations where net obligation is carried forward
	d) an acquisition or disposal that is solely a result of custodial activity	CUST - transaction arising solely as a result of custodial activity
	e) a post-trade assignment or novation of a derivative contract where one of the parties to the derivative contract is replaced by a third party	ASGN - post trade assignment or novation in a derivative contract where one of the parties is replaced by a third party

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Para.	ESMA Text	Transaction Flag Enumeration/Comment
	f) a portfolio compression	CPMR - portfolio compression
	g) the creation or redemption of units of a collective investment undertaking by the administrator of the collective investment undertaking	FUND - creation of redemption of a fund by the fund administrator
	h) the exercise of a right embedded in a financial instrument, or the conversion of a convertible bond and the resultant transaction in the underlying financial instrument	EXER - result of an exercise of a financial instrument
	i) the creation, expiration or redemption of a financial instrument as a result of pre-determined contractual terms, or as a result of mandatory events which are beyond the control of the investor where no investment decision by the investor takes place at the point in time of the creation, expiration or redemption of the financial instrument	PREC - result of pre-determined contractual terms, or as a result of mandatory events which are beyond the control of the investor where no investment decision by the investor takes place
	j) a decrease or increase in the notional amount of a derivative contract as a result of pre-determined contractual terms or mandatory events where no investment decision by the investor takes place at the point in time of the change in the notional amount	
	k) a change in the composition of an index or a basket that occurs after the execution of a transaction	CHNG - change in the composition of an index or basket post execution
	l) an acquisition under a dividend re-investment plan	DRIP - an acquisition under a dividend re-investment plan

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Para.	ESMA Text	Transaction Flag Enumeration/Comment
	<p>m) an acquisition or disposal under an employee share incentive plan, or arising from the administration of an unclaimed asset trust, or of residual fractional share entitlements following corporate events or as part of shareholder reduction programmes where all the following criteria are met:</p> <ul style="list-style-type: none"> i. the dates of acquisition or disposal are pre-determined and published in advance; ii. the investment decision concerning the acquisition or disposal that is taken by the investor amounts to a choice by the investor to enter into the transaction with no ability to unilaterally vary the terms of the transaction; iii. there is a delay of at least ten business days between the investment decision and the moment of execution; iv. the value of the transaction is capped at the equivalent of a thousand euros for a one off transaction for the particular investor in the particular instrument or, where the arrangement results in transactions, the cumulative value of the transaction shall be capped at the equivalent of five hundred euros for the particular investor in the particular instrument per calendar month. 	OPTN - result of pre-determined contractual terms where the investment decision amounts to a choice by the investor to enter into the transaction
	<p>n) an exchange and tender offer on a bond or other form of securitised debt where the terms and conditions of the offer are pre-determined and published in advance and the investment decision amounts to a choice by the investor to enter into the transaction with no ability to unilaterally vary its terms.</p>	
	<p>The exclusion provided for in point a) of paragraph 5 shall not apply to the securities financing transactions to which a member of the European System of Central Banks is a counterparty.</p>	Exclusion will not be applied by Trax Report - transactions reported with an enumeration of SFTR shall be filtered.
	<p>The exclusion provided for in point i) of paragraph 5 shall not apply to initial public offerings or secondary public offerings or placings, or debt issuance.</p>	Such transactions should be reported using an enumeration of BUYI or SELL.

Trax Report Technical Specification CSV File Format

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