



Trax Post-Trade CSV Upload Specification

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0.01	August 2017	Initial pre-release draft (for discussion).	N/A
0.02	August 2017	Added support for concatenated ID as a string.	N/A
0.03	November 2017	<ul style="list-style-type: none"> • Removed connection details • Removed server details • Updated Support Hours • Removed Account ID from filename as it will be implied by the upload directory • Updated file rejection reasons • Added Message ID to inbound and response files • Updated field enumerations • Removed business validation specific to Concatenated ID's • Removed Benchmark Curve Currency field • Removed unused deferral types • Clarified required fields by asset class • Clarified calculations for LIS/SSTI threshold comparison 	N/A
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1. POST-TRADE CSV UPLOAD OVERVIEW

1.1 Introduction

The Trax APA Post-Trade CSV Upload service has been created to provide clients with a means to satisfy Post-Trade transparency publication requirements under MiFID II (Regulation (EU) No 600/2014).

The purpose of this guide is to:

- Provide the information necessary to establish a connection with the Trax FTPS server for the exchange of submissions and response files; and
- To describe the file flow and the message formats which enable customers to submit files to the Trax service.

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 post-trade 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 service
- Section 3 provides an overview of the file flow
- Section 4 provides an overview of the file submission process
- Section 5 provides an overview of Trax responses
- Section 6 defines the format of the files sent by participant firms to Trax
- Section 7 defines the format of the Trax response files.

2 SERVICE OVERVIEW

2.1 Introduction

The purpose of this section is to highlight specific points you should consider when submitting Post-Trade CSV files to Trax.

- Service/support hours
- Submission accounts
- Unique identifiers
- File processing flow

2.2 Service/Support Hours

Trax will accept submissions on a 24*7 basis; however the following points should be noted:

- Normal support hours are 07:00 to 19:00 on UK business days:
support@traxmarkets.com
Telephone +44 (0)20 655 3440
- Out of hours support:
Duty Manager on call – Telephone +44 (0)20 655 3440 Option 9

2.3 Submission Accounts

A submission account segregates the flow of data between your organisation and Trax. This service only supports file based submission accounts linked to an FTP folder supporting automated flows.

You can operate one or more submission accounts depending on how your organisation segregates flows.

2.4 Unique Identifiers

Trax requires each file to be uniquely identified by the following fields in the filename:

- File number; and
- Date.

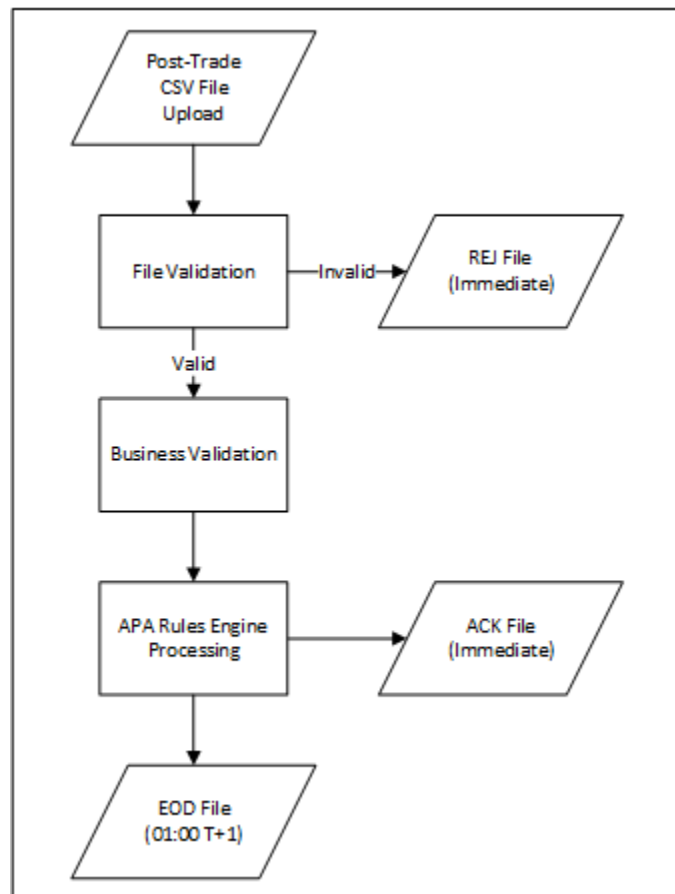
Trax requires each record within a file to be uniquely identified by the following fields:

- Reporting Legal Entity Identification Code;
- Executing Legal Entity Identification Code; and
- Trade Reference Number.

2.5 File Processing Flow

The following diagram illustrates the processing flow. The following points should be noted:

- Business validation is performed prior to the APA engine rules processing.
- A file will be rejected in its entirety if it does not pass file validation.
- An EOD file is always generated on T+1 at 0100 UTC.



2.6 Applicable National Competent Authority

MiFID II allows competent authorities to authorise the deferred publication of (non-equity) trades. To allow Trax to determine if deferred publication is relevant to a trade, the National Competent Authority (NCA) supervising an Executing Firm is retained within the APA participants account setup.

In most cases, an Executing Entity will be subject to the deferral regime of a single NCA. However, the following types of firm may be subject to the deferral regime of more than one NCA¹:

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

To allow Trax to apply the relevant deferral regime, non-UK and non-EU firms operating branches in both the UK and EU will be required to identify the executing entity branch location (or applicable NCA) on a trade by trade basis.

To allow Trax to apply the relevant deferral regime, EU firms operating a UK branch will be required to identify the applicable NCA on a trade by trade basis when reporting transactions executed by their UK branch; i.e. to report trades under the jurisdiction of their home NCA and to report the same trades under the jurisdiction of the FCA.

The following points should be noted:

- EU firms operating a UK branch should note the requirement regarding the unique identifier for a Trade Report; i.e. separate Trade Reference Numbers must be created where a transaction executed by the UK branch is subject to the transparency regimes of both their home NCA and the FCA
- Where a firm is required to report under the jurisdiction of more than one NCA, Trax will retain a default NCA for the firm. Trax will publish trades according the deferral regime of the default NCA if a trade does not identify the applicable NCA.

¹ Please refer to the Trax Brexit FAQs for further information.

3 FILE FLOW

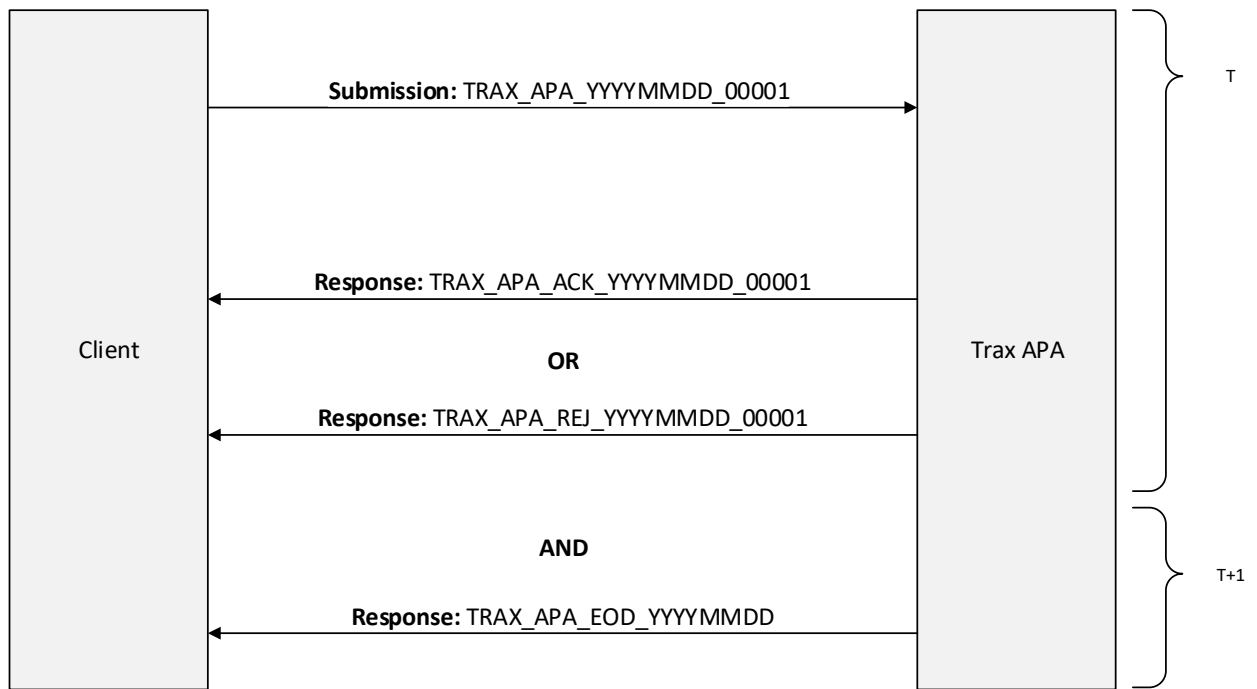
3.1 Overview

Each time Trax receives a file submission, it will be validated at that time to ensure that the file is a valid submission (see Section 6 below for detail). If the file is a valid submission, Trax will process each record in the file and return a single response file (ACK) to the same FTP folder on the FTP server for the subscriber to collect.

For files that fail file validation, a rejection response (REJ) will be returned for the file.

An EOD file is always sent on T+1 at 0100 UTC.

The full file flow is illustrated in the following diagram.



- NNNNN The Submission Number of the file. This allows a firm to send many (up to one hundred thousand, numbered 00000 to 99999) uniquely identified files for a submission account each day.

4.2 File Validation

4.2.1 File Rejections

Trax will perform file level checks on submitted files before attempting to process any of the records in the file. If a file level check fails, the file is rejected (see Response files in Section 7).

Trax will check that the file submission is correctly named and conforms to the structure defined in 6.1.2 above. Additional checks are also performed which are detailed in the following sections.

4.2.2 Date Check

The Date 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.

If either of the above checks fail, the submitted file will be rejected.

4.2.3 Submission Account Checks

The submission account will be checked for file:

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

If either of the above checks fail, the submitted file will be rejected.

4.2.4 Duplicate Files

A duplicate file check will be run and result in a file rejection if the submission file is deemed a duplicate.

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

4.3 Concatenated ID

Concatenated ID's are supported as a string and there will be no validation on the trade when a Concatenated ID is provided. If a publication override is not provided with the trade, then Trax will publish the trade immediately.

4.4 Fields by Asset Class

For further clarity on the fields required for each asset class, the following table has been provided. Note that this is not a complete list of required fields and only pertains to those fields that change due to asset classification. C1-C4 refer to notes provided below the table.

	Unit Of Measure	Quantity In Measurement Units	Time Unit	Price Condition	Price Type	Price	Price Currency	Quantity Type	Quantity	Contract Multiplier	Notional Amount	Notional Currency	Reference Period Start	Reference Period End	Emissions Allowance Type	Transaction to be Cleared
Equity Financial Instruments			C3	C1	C1	C1	C1, C2	M	M	O						M
Bonds (excl. ETCs and ETNs)			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Bonds (ETCs and ETNs)			C3	C1	C1	C1	C1, C2	M	M	O						M
Structured Finance Products			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Securitized Derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Interest Rate Derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Equity Derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Commodity Derivatives	C4	C4	C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
C10 derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
FX Derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Credit Derivatives			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
CFDs			C3	C1	C1	C1	C1, C2	M	M	O	M	M				M
Emission Allowances	M	M	C3	C1	C1	C1	C1, C2	M	M	O	M	M	M	M	M	M
Emission Allowance Derivatives	M	M	C3	C1	C1	C1	C1, C2	M	M	O	M	M	M	M	M	M

Notes

C1: Only one of {Price Conditions} or {Price Type, Price, and Currency} should be used, not both.

C2: Price Currency is required when Price Type = MONE

C3: If Quantity Type = TIME, then Time Unit is required

C4: If either Unit Of Measure or Quantity In Measurement Units are provided, then both fields must be present

4.5 LIS/SSTI Comparison

The below table outlines the values and calculations that occur on an asset class basis for comparison to Large in Scale and Size Specific to an Instrument (LIS/SSTI) thresholds.

Note that Trax will cater for LIS/SSTI thresholds in different jurisdictions on the basis of the jurisdiction (applicable NCA) the participant is reporting under.

Asset Classes	Calculation or Value	Notes
Equity Financial Instruments	Quantity * Price	Converted to EUR/GBP as needed
Bonds (ETCs and ETNs)	Quantity * Price	Converted to EUR/GBP as needed
Emission Allowances	Quantity * Quantity In Measurement Units	In TOCD, not converted to EUR
Emission Allowance Derivatives	Quantity * Quantity In Measurement Units	In TOCD, not converted to EUR
All other classes	Notional Amount	Converted to EUR/GBP as needed

Conversion to the relevant currency occurs using the prescribed MiFID II currency conversion (i.e., exchange rate into EUR/GBP from the last business day of the prior year, as published by the European Central Bank).

5 RESPONSE FILE

5.1 Overview

Files will be submitted by subscribers to their designated FTP folder on the Trax FTP server. Trax will in turn send response files back to the same FTP folder on the FTP 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 response record for each record contained in the submission file, indicating the processing outcome (see Section 9 for format).

Where a file submission is rejected (e.g. a duplicate file is submitted) the records 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 6 above.

5.2 File Naming Convention

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

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

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

- SSS The Service the file is sent from (i.e. "APA").
- TTT The Type of file. Will be set to "ACK" (Response file) or "REJ" (Reject file).
- SubmissionFileName The file name of the submission file excluding the file extension
- YYYYMMDD The Creation Date from submission file.
- NNNNN 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 FTP Server.

6 RECORD TEMPLATE

6.1 Submission Format

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

Trax requires records to be submitted in CSV format; i.e. each field in the template must be included in the correct order including where a field is not required to be populated for the record being sent.

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

6.2 Record Template

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

- 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 record. Trax will reject the record and return an error if any mandatory field is not populated.
- Format - defines the format applicable to the field. Trax will reject the record and return a general syntax error if a field does not comply with the defined format.

6.3 Field Format

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

- Date fields have the format YYYY-MM-DD
- Datetime fields have the format ISO 8601 {YYYY-MM-DDThh:mm:ss.dddZ}
- Numeric fields have the format 9(i.d), where “i” is the maximum number of digits before the decimal point, and “d” is the maximum number of digits after the decimal point. Leading and trailing zeros are acceptable.
- Signed values are acceptable where specified as some values may be negative or positive (including zero).
- Character fields have a minimum and maximum length and may be comprised of Upper or Lower case Latin letters (Aa-Zz) and or numeric values (0-9). Printable ASCII characters from 32 to 126 are supported, which includes some special characters (extended ASCII is not supported). Where a field does not indicate a minimum, the field must contain the maximum number of characters.

6.4 Fields

Ref.	Field	M/O/C	Description	Format
0	Message Id	M	Message identifier within the upload file. Uniqueness is suggested, but not enforced.	Char[1,100]
1	Reporting Legal Entity Identifier	M	ISO 17442 LEI code used to identify the party under which the trade was reported.	Char(20)
2	Executing Legal Entity Identifier	M	ISO 17442 LEI code used to identify the party under which the trade was executed.	Char(20)
3	Trading Capacity	M	Code used to describe the capacity in which the executing LEI acted. Supported values: AOTC = Agent (AOTC) CAAG = Cross as Agent (AOTC) MTCH = Cross as Principal (MTCH) DEAL = Principal (DEAL) RSKP = Riskless Principal (DEAL)	Char(4)
4	Trading Date and Time	M	Date and time when the transaction was executed.	Datetime
5	Trade Reference Number	C	Unique identifier for the trade as assigned by the subscriber. Required for New records.	Char[1,100]
6	Trax APA ID	C	The unique value assigned to the trade by Trax. Required when sending Amend or Cancel records.	9(15.0)
7	Record Type	M	The type of record being submitted. Supported values: NEW = New AMD = Amend CAN = Cancel	Char(3)
8	Security Code	M	Security ID code.	Char[1,512]
9	Security Code Type	M	Code to identify the type of financial instrument identifier used. Supported values: ISIN = ISIN OTHR = Concatenated ID	Char(4)
10	Direction	O	Code to indicate buy or sell, as viewed from the reporting LEI. Supported values: B = Buy S = Sell U = Undisclosed	Char(1)
11	Counterparty LEI	O	ISO 17442 LEI code used to identify the counterparty of the trade.	Char(20)

Ref.	Field	M/O/C	Description	Format
12	Counterparty Trading Capacity	O	Code used to describe the capacity in which the counterparty LEI acted. Supported values: AOTC = Agent (AOTC) CAAG = Cross as Agent (AOTC) MTCH = Cross as Principal (MTCH) DEAL = Principal (DEAL) RSKP = Riskless Principal (DEAL)	Char(4)
13	Price Condition	C	Describes the condition of the price. Required when Price is not specified. Supported values: PNDG = Price is pending NOAP = Price is not applicable	Char(4)
14	Price Type	C	Code to identify the type of price used. Required if Price Condition is not PNDG or NOAP. Supported values: PERC = Percentage (PERC) MONE = Per Unit (MONE) SPRD = Spread (YIEL) YIEL = Yield (YIEL) BAPO = Basis Points (BAPO)	Char(4)
15	Price	C	Traded price of the transaction. Required if Price Condition is not PNDG or NOAP.	9(18.17)+ 9(18.17)-
16	Price Currency	C	ISO 4217 currency in which the notional is expressed. Required if Price Condition is not PNDG or NOAP.	Char(3)
17	Benchmark Curve Name	C	Name of the benchmark curve. Required when Price is Spread and a benchmark ID is not provided.	Char[1,100]
18	Benchmark Curve Point	C	Point on the benchmark curve. Required when Price is Spread and a benchmark ID is not provided.	Char[1,100]
19	Benchmark Price	O	Agreed price of the benchmark.	9(18.17)+ 9(18.17)-
20	Benchmark Price Type	C	Code to identify the type of price used for the benchmark. Required when Benchmark Price is provided. Supported values: PERC = Percentage YIEL = Yield	Char(4)
21	Benchmark ID	C	ISIN used to identify the underlying benchmark. Required when Benchmark Curve Name is not provided and price is Spread.	Char(12)

Ref.	Field	M/O/C	Description	Format
22	Benchmark ID Type	C	Code to identify the type of financial instrument identifier used. Required when Benchmark Curve Name is not provided and price is Spread. Supported values: ISIN = ISIN	Char(4)
23	Quantity Type	M	Type of quantity specified in the quantity field. Supported values: UNIT = Units CONT = Contracts TIME = Time Units	Char(4)
24	Quantity	M	The number of units of the financial instrument, the number of derivative contracts in the transaction or the nominal or monetary value of the financial instrument.	9(18.17)
25	Contract Multiplier	O	Specifies the ratio or multiply factor to convert from "nominal" units (e.g. contracts) to total units (e.g. shares) (e.g. 1.0, 100, 1000, etc). Applicable For Fixed Income, Convertible Bonds, Derivatives, etc.	9(18.17)
26	Unit of Measure	C	The unit of measure of the underlying commodity upon which the contract is based. Required for Commodity Derivatives, Emission Allowance Derivatives, and Emission Allowances. Supported values: BICF = Billion cubic feet CUME = Cubic Meters GIJO = gigajoules OMIB = One Million BTU MWHR = Megawatt hours THMS = therms MIBR = Million Barrels ALLO = Allowances BARR = Barrels BDFT = Board feet BUSH = Bushels AMNT = Amount of currency CDDA = Cooling degree day CERE = Certified emissions reduction CPDA = Critical precipitation day CRTO = Climate reserve tonnes HDWT = Hundredweight(US) DAYS = Days DMTO = Dry metric tons ENAC = Environmental allowance certificates ENCT = Environmental credit ENOS = Environmental Offset	Char(4)

Ref.	Field	M/O/C	Description	Format
			GRAM = Grams GALL = Gallons GRTO = Gross tons HDDA = Heating degree day IPNT = Index point KGMS = Kilograms KLTS = kiloliters KWYE = Kilowatt-Year KWDA = Kilowatt-Day KWHO = Kilowatt-Hour KWMO = Kilowatt-Month KWMI = Kilowatt-Minute LITR = liters POUN = Pounds MWYR = Megawatt-Year MWDA = Megawatt-Day MWHO = Megawatt-Hour MWMO = Megawatt-Month MWMI = Megawatt-Minute TROU = Troy Ounces PRIN = Principal with relation to debt instrument METT = Metric Tons (aka Tonne) TONS = Tons (US) USDL = US Dollars	
27	Time Unit	C	The unit of time of the quantity. Required when Quantity Type = 2 (Time Units). Supported values: SECS = Second MINS = Minute HOUR = Hour DAYS = Day WEEK = Week MONT = Month QRTR = Quarter YEAR = Year	Char(4)
28	Quantity In Measurement Units	C	The equivalent amount of commodity traded expressed in measurement unit. Required when Quantity In Measurement Units is provided.	9(18.17)
29	Notional Currency	C	ISO 4217 currency in which the notional is expressed. Required for all asset classes, except equities.	Char(3)
30	Notional Amount	C	Notional principal amount or notional value of the trade. Required for all asset classes, except equities.	9(18.5)

Ref.	Field	M/O/C	Description	Format
31	Venue	M	<p>Identification of the venue where the transaction was executed. ISO 10383 segment MIC, including SINT, XOFF, and XXXX.</p> <p>Note that Trax will cater for trading venue, SI and organised trading platform classification in different jurisdictions on the basis of the jurisdiction (applicable NCA) the participant is reporting under.</p>	Char(4)
32	Transparency Flags	C	<p>Indicator as to the type of transaction. Comma separated values where each value is a 4 character transparency flag. One of ILQD, LRGS, SIZE is required if a deferral type is specified (these flags may also be set without indicating an override).</p> <p>Supported values: ACTX, ALGO, BENC, DUPL, ILQD, LRGS, NLIQ, NPFT, OILQ, ORGN, PRIC, RFPT, RPRI, SDIV, SIZE, TNCP, TPAC, XFPH</p>	Char[1,100]
33	Publication Flag	C	<p>Override flag used to control the publication outcome. Required if a deferral type is specified.</p> <p>Supported values: Y = Publish Immediately N = Do Not Publish D = Defer</p>	Char(1)

Ref.	Field	M/O/C	Description	Format
34	Deferral Type	C	<p>Override to control the type of deferral used for the trade. Required if Publication Flag is set to D.</p> <p>Non-Equity values: 1 = Standard deferral: limited detail publication, but no aggregate publication during deferral. Full details published by 1900 on T+2. 2 = Standard deferral: aggregate publication during deferral (on T+1). Full details published by 1900 on T+2. 3 = Standard deferral: no publication during deferral. Full details published by 1900 on T+2. 4 = Extended deferral: limited detail publication during deferral. Full details published by 0900 on T+4 weeks. 5 = Extended deferral: aggregate publication during deferral (following Tuesday). Full details published by 0900 on T+4 weeks. 6 = Extended deferral: limited detail publication during deferral. Full details indefinitely deferred. 7 = Extended deferral: aggregate publication during deferral (on T+4 weeks). Full details indefinitely deferred. 8 = Indefinite deferral: aggregate publication during deferral (on following Tuesday). Full details indefinitely deferred.</p> <p>10 = Indefinite deferral: limited detail and aggregate publication during deferral (on T+4 weeks). Full details indefinitely deferred.</p> <p>15 = Swedish deferral: limited detail and standard aggregate publication during deferral. Full details published by 0900 on T+4 weeks.</p> <p>Equity values: 21 = 60 Minutes 22 = 120 Minutes 23 = End of Day 24 = Delay until Noon on T+1 25 = Delay until Open on T+1 (Venue Only)</p>	9(2.0)
35	Delegated Report	O	<p>Indicates whether or not the trade reporting was delegated by the executing entity to the reporting entity.</p> <p>Supported values: Y = Yes N = No</p>	Char(1)
36	Reference Period Start	C	Required for Emission Allowances and Emission Allowances Derivatives.	Date
37	Reference Period End	C	Required for Emission Allowances and Emission Allowances Derivatives.	Date

Ref.	Field	M/O/C	Description	Format
38	Emission Allowance Type	C	Required for Emission Allowances and Emission Allowances Derivatives. Supported values: EUAE = EUA CERE = CER ERUE = ERU EUAA = EUAA OTHR = Other (for derivatives only)	Char(4)
39	Package ID	O	Code to identify related groups of trades that should be processed together.	Char[1,100]
40	Package Trade Number	C	Ordinal number of the trade within a series of related trades. Required when Package ID is populated.	9(3.0)
41	Number of Trades in Package	C	The total number of trades contained in the package of which the trade being reported is a part of. Required when Package ID is populated.	9(3.0)
42	Trader ID	O	Free-form code to aid in reporting.	Char[0,100]
43	Book ID	O	Free-form code to aid in reporting.	Char[0,100]
44	Transaction to be Cleared	M	Code to identify whether the transaction will be cleared. Supported values: Y = To be cleared N = Not to be cleared	Char(1)
45	Applicable NCA	O	Identifies the applicable NCA for deferrals. Can be used if the Reporting Firm is reporting trades under more than one deferral regime.	Char (5,8)
46	Executing Entity Branch Location	O	The branch of the executing entity that executed the transaction. Can be used to determine the applicable NCA if the Reporting Firm is reporting trades under more than one deferral regime.	Char(2)
47	Counterparty Branch Location	O	Where the other party of the trade is a foreign branch of the investment firm, the country code of the branch location	Char (2)
48	Price Check Override	O	Indicates whether you would like to override the price check logic Supported values: Y = Yes	Char(1)
49	Volume Check Override	O	Indicates whether you would like to override the volume check logic Supported values: Y = Yes	Char(1)

7 OUTBOUND FILES - FIELD FORMAT

7.1 Outbound Format

The templates presented in the following section defines the business format for response files (ACK, REJ) and EOD files created by Trax.

The template uses the same terminology as the submission format defined in Section 8 above.

Trax will create outbound files in CSV format, i.e. each field in the template will be included in the correct order including where a field is not required to be populated.

Example CSV files can be obtained from Client Services Management.

7.2 Response File

The following points should be noted:

- A “REJ” file error response will contain only one rejection reason.
- An “ACK” response file may contain multiple rejection or warning messages for each record.
 - Such messages are contained in the “Reason Group” which may be repeated up to a maximum of 10 times for each record.

Ref.	Field	Description	Message Type		Format	Content
			RESP	FILE		
0	Message Id	Message identifier used in the upload file.	M	-	Char[1,100]	As provided on the inbound file.
1	Message Type	Defines the type of outbound message	M	M	Char(4)	RESP - record response FILE - file response
2	Record Status	Status of the record	M	-	Char(3)	If any record status is REJ, the record is rejected. A WRN or ACK for record status indicates the record passes validation. ACK - Accepted WRN - Accepted, with warnings REJ - Rejected
3	Trade Reference Number	The unique record identifier for the trade as assigned by the subscriber.	M	-	Char[1,100]	As entered in the submitted file. Field will be blank if Record ID cannot be determined.
4	Trax APA ID	The unique value assigned to the trade by Trax.	M	-	9(15.0)	As generated by the Trax APA.
5	Security Code	Security ID code.	M	-	Char[1,512]	As provided on the inbound file.
6	Security Code Type	Code to identify the type of financial instrument identifier used. Supported values: ISIN = ISIN OTHR = Concatenated ID	M	-	Char(4)	As provided on the inbound file.
7	Trading Date and Time	Date and time when the transaction was executed.	M	-	Datetime	As provided on the inbound file.

Ref.	Field	Description	Message Type		Format	Content
			RESP	FILE		
8	Publication Flag	<p>The publication outcome of the Trax APA rules engine. Will match the inbound publication flag when an override has been used.</p> <p>Supported values: Y = Publish Immediately N = Do Not Publish D = Defer</p>	M	-	Char(1)	APA rules engine Publication outcome.
9	Deferral Type	<p>Describes the type of deferral used for the trade. Present when Publication Flag is D.</p> <p>Non-Equity values: 1 = Standard deferral: limited detail publication, but no aggregate publication during deferral. Full details published by 1900 on T+2. 2 = Standard deferral: aggregate publication during deferral (on T+1). Full details published by 1900 on T+2. 3 = Standard deferral: no publication during deferral. Full details published by 1900 on T+2. 4 = Extended deferral: limited detail publication during deferral. Full details published by 0900 on T+4 weeks. 5 = Extended deferral: aggregate publication during deferral (following Tuesday). Full details published by 0900 on T+4 weeks. 6 = Extended deferral: limited detail publication during deferral. Full details indefinitely deferred. 7 = Extended deferral: aggregate publication during deferral (on T+4 weeks). Full details indefinitely deferred. 8 = Indefinite deferral: aggregate publication during deferral (on following Tuesday). Full details indefinitely deferred. 10 = Indefinite deferral: limited detail and aggregate publication during deferral (on T+4 weeks). Full details indefinitely deferred.</p>	C	-	9(2.0)	Deferral type outcome of the APA rules engine.

Ref.	Field	Description	Message Type		Format	Content
			RESP	FILE		
		<p>15 = Swedish deferral: limited detail and standard aggregate publication during deferral. Full details published by 0900 on T+4 weeks.</p> <p>Equity values: 21 = 60 Minutes 22 = 120 Minutes 23 = End of Day 24 = Delay until Noon on T+1 25 = Delay until Open on T+1 (Venue Only)</p>				
10	Transparency Flags	<p>Transparency flags present on the trade in the Trax system. Contains both flags sent by the subscriber and those enriched by the APA service.</p> <p>Comma separated values where each value is a 4 character transparency flag.</p>	O	-	Char[1,100]	The superset of flags from the inbound record and from the APA rules engine.
11	Package ID	Code to identify related groups of trades that should be processed together.	C	-	Char[1,100]	As provided on the inbound file.
12	Package Trade Number	Ordinal number of the trade within a series of related trades.	C	-	9(3.0)	As provided on the inbound file.
13	Number of Trades in Package	The total number of trades contained in the package of which the trade being reported is a part of.	C	-	9(3.0)	As provided on the inbound file.
14	Trader ID	Free-form code to aid in reporting.	O	-	Char[0,100]	As provided on the inbound file.
15	Book ID	Free-form code to aid in reporting.	O	-	Char[0,100]	As provided on the inbound file.
Reason Group – optional for ACK files, repeats up to 10 times for each record.						
16	Reason Code	Reason Code	O	M	Char(5)	Rejection and Warning codes will be shown in this field.
17	Related Field	Field name for which the Reason is reported, if applicable.	O	-	9(2)	Field is will be blank if the reason does not relate to a specific field.
18	Description	Reason description	O	M	Char[0, 255]	Rejection and Warning text will be shown in this field.

7.3 EOD File

The following points should be noted:

- An “EOD” file will always be generated, even if no records are in the file.
- EOD files will contain publication and lifecycle information on submitted records for the prior day.

Ref.	Field	Description	M/O/C	Format	Content
0	Trade Reference Number	The unique record identifier for the trade as assigned by the subscriber.	M	Char[1,100]	As provided on the inbound file.
1	Trax APA ID	The unique value assigned to the trade by Trax.	M	9(15.0)	As generated by the Trax APA.
2	Security Code	Security ID code.	M	Char[1,512]	As provided on the inbound file.
3	Security Code Type	Code to identify the type of financial instrument identifier used. Supported values: ISIN = ISIN OTHR = Concatenated ID	M	Char(4)	As provided on the inbound file.
4	Trading Date and Time	Date and time when the transaction was executed.	M	Datetime	As provided on the inbound file.
5	Event Source	Used to identify the event or source which gave rise to a message. Supported values: REJT = Trade rejected (EOD rejections for incomplete packages) LPUB = Limited details published APUB = Aggregate details published FPUB = Full details published	M	Char(4)	The message event source.
6	Publication Date and Time	The date and time of the publication event.	O	Datetime	The time at which the publication occurred.

Ref.	Field	Description	M/O/C	Format	Content
7	Publication ID	The Transaction Identification Code (TIC) present on the publication.	O	9(19.0)	The publication ID that was published.
8	Publication Type	Type of publication action. Supported values: NEW = New AMD = Amend CAN = Cancel	O	Char(3)	The publication action type.
9	Transparency Flags	Transparency flags present on the publication event. Comma separated values where each value is a 4 character transparency flag.	O	Char[1,100]	Transparency flags that were published.
10	Package ID	Code to identify related groups of trades that should be processed together.	C	Char[1,100]	As provided on the inbound file.
11	Package Trade Number	Ordinal number of the trade within a series of related trades.	C	9(3.0)	As provided on the inbound file.
12	Number of Trades in Package	The total number of trades contained in the package of which the trade being reported is a part of.	C	9(3.0)	As provided on the inbound file.
13	Trader ID	Free-form code to aid in reporting.	O	Char[0,100]	As provided on the inbound file.
15	Book ID	Free-form code to aid in reporting.	O	Char[0,100]	As provided on the inbound file.
Reason Group - optional, repeats up to 10 times for each record.					
15	Reason Code	Reason Code	O	Char(5)	APA lifecycle codes will be shown in this field for publication events. For EOD package rejections, this field will contain rejection codes.
16	Description	Reason description	O	Char[0, 255]	Text will be shown in this field for publication events and rejection messages.

7.4 Reason Codes and Descriptions

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

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

A rejection reason returned in a record response means the individual record has been rejected by Trax.

7.4.1 File Rejections

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

Reason Code	Description
F0001	Duplicate submission file
F0002	Invalid submission file structure
F0005	File Date is more than 1 day prior to the current date or it is in the future
F0008	Filename does not conform to the required naming convention
F0009	Invalid submission format for submission file
F0010	Maximum 1000 records supported per file
F0011	Reporting firm not associated
F0012	Reporting firm not active

7.4.2 Record Rejections – Syntax Validation

When processing a submitted file, a check is performed to ensure that the records within the file meet the required syntax. If the record fails at this point, the file is rejected and a single rejection is returned (Reason Code F0002).

7.4.3 Record Rejections - Business Validation

Where a record passes syntax, business validation is performed on the record. Each field is validated in turn and a record may be rejected with one of the following reasons:

Code	Title	Primary Message
R0000	Missing Field	The following fields were expected and not found:
R0001	B/S Invalid	B/S Indicator is invalid.
R0002	To Be Cleared Invalid	Transaction to be cleared is invalid.
R0003	Deferral Type Invalid	Deferral Type is invalid.

Code	Title	Primary Message
R0004	Missing Publication Flag	If Deferral Type is populated, Publication Flag must be set to D.
R0005	Invalid Executing LEI	Executing LEI should be 20 characters.
R0006	Inactive Executing LEI	The trade date is outside the start/end date of the Executing LEI.
R0007	Executing LEI Not Found	Executing LEI was not found on the client profile.
R0008	Disabled Executing LEI	Executing LEI is not enabled on the client profile.
R0009	Invalid Venue	Venue of execution is not valid.
R0010	Invalid ISIN	ISIN should be 12 characters.
R0012	ISIN not found	ISIN Code not found.
R0013	Invalid IIC Type	Instrument identification code type is not a valid type.
R0014	Qty Greater than Amt Out	Quantity appears erroneous; it is greater than the outstanding amount of the instrument.
R0015	Invalid Quantity	Quantity is not a valid amount.
R0016	Invalid Notional CCY	Notional Currency is not valid.
R0017	Unknown Notional CCY	Notional Currency is not valid.
R0018	Mismatched Notional CCY	Notional currency does not match the issue currency of the instrument.
R0019	Missing Transparency Flag	Client_Pack_ID and Client_Pack_Count are populated, Transparency must contain TPAC or XFPH.
R0020	Duplicate Package ID	The Package ID has already been used for a completed package.
R0021	Invalid Package Count	Number of trades in Package is invalid.
R0022	Invalid Package Ordinal	The ordinal number of the trade within the package is greater than the number of trades in the package.
R0023	Duplicate Package Ordinal	The ordinal number of the trade within the package has already been used.
R0024	Erroneous Price	Price appears erroneous.
R0025	Invalid Price CCY	Price Currency is not valid.
R0026	Unknown Price CCY	Price Currency is not valid.
R0027	Invalid Price Type	Price notation is not a valid type.
R0028	Invalid Publication Flag	Publication Flag is invalid.
R0029	Missing Transparency Flag	The trade was marked for deferral, but no transparency flag was provided.
R0030	Invalid Reporting LEI	Reporting LEI should be 20 characters.
R0031	Inactive Reporting LEI	The trade date is outside the start/end date of the Reporting LEI.
R0032	Reporting LEI not found	Reporting LEI was not found on the client profile.
R0033	Disabled Reporting LEI	Reporting LEI is not enabled on the client profile.
R0034	Future Trade Date/Time	Trading Date and Time is in the future.

Code	Title	Primary Message
R0035	Traded Before Issued	Trading Date and Time is prior to Issue Date.
R0036	Traded After Maturity	Trading Date and Time is after Maturity Date.
R0037	Invalid APA ID	Trax APA ID is invalid.
R0038	APA ID on New	The trade provided contained an APA ID, while the trade is New.
R0039	Missing APA ID	An APA ID is required for Amend and Cancel.
R0040	Unknown APA ID	Trax APA ID not found.
R0041	Invalid Trade Reference	Length of Trade Reference Number is too long.
R0042	Trade Ref not Unique	Trade reference number is not unique for the executing LEI, trade may be a duplicate.
R0043	Invalid Trading Capacity	Trading Capacity is invalid.
R0044	ACTX Not Allowed	The ACTX flag has been used, Client Capacity must not be DEAL.
R0045	Invalid Transaction Type	Transaction Type is invalid.
R0046	Invalid Amend	Trade cannot be amended as it has already been cancelled.
R0047	Invalid Cancel	Trade has already been cancelled.
R0048	Missing Package Fields	TPAC or XFPH flag has been used: Client Package ID and Client Package Count must be populated.
R0049	Invalid Transparency Flag(s)	Transparency flag is not a valid type.
R0050	Invalid Book ID	Length of Book ID is too long
R0051	Invalid Package ID	Length of Package ID is too long
R0052	Invalid Trader ID	Length of Trader ID is too long.
R0053	Invalid Amend	Trade is part of a completed package and Client_Pack_ID cannot be amended.
R0054	Invalid Amend	Trade is part of a completed package and Client_Pack_NO cannot be amended.
R0055	Invalid Amend	Trade is part of a completed package and Client_Pack_Count cannot be amended.
R0056	Missing Deferral Type	The Post-Trade Publication Flag is D, Deferral Type must be populated.
R0057	Flag Mismatch	Transaction Type is New or Cancel, while AMND has been used in Transparency Flags.
R0058	Flag Mismatch	Transaction Type is New or Amend, while CANC has been used in Transparency Flags.
R0059	Mutually Exclusive Flags	Mutually exclusive transparency flags were used.
R0060	Invalid Package Action	The Transaction Type across all trades in a package must match.
R0061	Flag Mismatch	Transaction Type is New, while AMND or CANC has been used in Transparency Flags.
R0062	Incomplete Package	The trade has been rejected; the package is incomplete.

Code	Title	Primary Message
R0063	Venue Mismatch	The venue of execution (MIC) does not match the MIC of the security listing.
R0064	Invalid Package Count	Number of trades in Package do not match.
R0066	Invalid Notional Amount	Notional Amount appears erroneous; it is greater than the outstanding amount of the instrument.
R0067	Invalid Quantity Type	Quantity Type is invalid.
R0068	Invalid Notation of Quantity	Notation of Quantity is invalid.
R0069	Invalid Quantity in Measurement Units	Quantity in Measurement Units is invalid
R0070	Invalid Quantity Multiplier	Quantity Multiplier is invalid.
R0071	Invalid Reference Period Start	Reference Period Start is invalid.
R0072	Invalid Reference Period End	Reference Period End is invalid.
R0073	Invalid Trade Type	Trade Type is invalid.
R0074	Invalid Benchmark Price	Benchmark Price is invalid
R0075	Invalid Benchmark Price Type	Benchmark Price Type is invalid.
R0076	Invalid Benchmark Instrument Code	Benchmark Instrument Code should be 12 characters.
R0077	Invalid Benchmark Instrument Code Type	Benchmark Instrument Code Type is not a valid type.
R0081	Deferral Type Not Allowed	The deferral type specified is not allowed for the asset class of the security.
R0082	Missing Benchmark	Price Type is Spread, but the benchmark is missing.
R0083	Invalid Trading Date and Time	Trading Date and Time is invalid.
R0084	Notional Amount is invalid.	Notional Amount is invalid.
R0085	Invalid Benchmark Curve Point	Benchmark Curve Point exceeds maximum length
R0086	Delegated Reporting Invalid	Delegated Reporting is invalid
R0087	Invalid Number of Trades in Package	Number of Trades in Package is invalid.
R0088	Invalid Message Id	Message Id is invalid.
R0089	Invalid Cpty Trading Capacity	Cpty Trading Capacity is invalid
R0090	Invalid Benchmark Curve Name	Benchmark Curve Name is invalid.
R0091	Invalid Time Unit	Time Unit is invalid.
R0092	Invalid Emission Allowance Type	Emission Allowance Type is invalid.
R0093	Invalid Transparency Flags.	Length of Transparency Flags is too long
R0094	Price is invalid.	Price is invalid
R0095	Invalid Price Condition.	Only one of the following price conditions may be used: NOAP, PNDG
R0096	Invalid Price Condition	Price Type, Price, and Price Currency must not be populated when Price Condition of NOAP or PNDG is used
R0097	Invalid Benchmark	Benchmark must be either an isin or a curve.

Code	Title	Primary Message
R0098	Missing Benchmark ID	Benchmark Code or Code Type missing.
R0098	Missing Benchmark ID	Benchmark Code or Code Type missing.
R0099	Missing Benchmark Curve/Point	Benchmark Curve Name or Curve Point missing
R0099	Missing Benchmark Curve/Point	Benchmark Curve Name or Curve Point missing
R0101	Illegal character found in trade	Illegal character found in trade
R0102	Benchmark ISIN Not Found	Benchmark ISIN Code not found.
R0103	Price Type not Spread	Price Type is not Spread while a benchmark has been provided.
R0104	Missing Counterparty LEI	The counterparty LEI was not provided.
R0105	Cannot amend BATS trade	A trade which was previously sent to BATS may not be amended so that it is not sent to BATS
R0106	Cannot amend non-BATS trade	A trade which was previously not sent to BATS may not be amended so it is sent to BATS
R0107	Cannot amend a previously cancelled BATS trade	A trade which was previously cancelled at BATS may not be amended
R0108	Unknown NCA	NCA is not valid.
R0109	Unknown Executing Firm Branch	Executing Firm Branch Location is not valid.
R0110	Unknown Counterparty Branch	Counterparty Branch Location is not valid.
R0111	Missing Trade id and Reference	One of either Trade Reference or Trax APA ID should be present.
R0112	Ibmmq version not valid	Ibmmq version is not valid for amd, trade may be old version.
R3001	Invalid Value of MiFIR Identifier	Value of MiFIR Identifier not valid
R3002	Mismatched Asset Class of the Underlying	Asset class of the underlying does not match the enumeration value
R3003	Mismatched Contract Type	Contract type does not match the enumeration value
R3004	Inactive Trading Venue MIC.	The trade date is outside the start/end date of the Trading Venue MIC.
R3006	Invalid Size Related to the Freight Sub Type	Size related to freight sub type should be 25 characters or less.
R3007	Invalid Route or Time Charter Average	Route or time charter average should be 25 characters or less
R3008	Invalid Delivery Cash Settlement Location	Delivery cash settlement location should be 25 characters or less
R3009	Unknown Notional CCY	Notional Currency is not valid
R3010	Mismatched Notional CCY	Notional currency does not match the issue currency of the instrument.
R3011	Mismatched Underlying Type	Underlying type does not match the enumeration value
R3012	Disabled Issuer of Underlying Bond LEI	The trade date is outside the start/end date of the Issuer of underlying bond LEI
R3013	Inactive Issuer of Underlying Bond LEI	Issuer of underlying bond LEI is not enabled on the client profile
R3016	Invalid Notional CCY of the Swaption	Notional Currency of the swaption is not valid.

Code	Title	Primary Message
R3017	Unknown Notional CCY of the Swaption	Notional Currency of the swaption is not valid
R3019	ISIN not found	ISIN not found
R3020	Invalid Inflation Index Name	Inflation index name should be 25 characters or less
R3021	Invalid Reference Rate	Reference rate should be 4 character if index or 25 characters or less if reference rate is not included in the INDEX list
R3022	Mismatched Reference Rate	Reference rate does not match the index enumeration value
R3023	Invalid IR Term of Contract	IR term of contract should be of the format {INTEGER-3}+'DAYS' or {INTEGER-3}+'WEEK' or {INTEGER-3}+'MNTN' or {INTEGER-3}+'YEAR'
R3024	Invalid Contract Sub Type	Contract sub type does not match the enumeration value
R3025	Mismatched Parameter	Parameter does not match the enumeration value
R3026	Invalid Contract Type	Contract sub type does not match the enumeration value
R3028	Invalid Notional CCY1	Notional Currency1 is not valid
R3029	Invalid Notional CCY2	Notional Currency2 is not valid
R3030	Unknown Notional CCY2	Notional Currency2 is not valid
R3031	ISIN for the Underlying Credit Default Swap not found	ISIN for the underlying credit default swap not found
R3032	ISIN for the Underlying Index Code not Found	ISIN for the underlying index code not found
R3033	Invalid Underlying Index Name	Underlying index name should be 25 characters or less
R3034	Invalid Series	Series is invalid
R3035	Invalid Version	Version is invalid
R3036	Invalid Roll Months	Roll Months should be integer number of up to 2 digits in total
R3037	Mismatched Roll Months	Roll Months does not match the enumeration value
R3039	Mismatched Issuer of Sovereign and Public Type	Issuer of sovereign and public type does not match the enumeration value
R3040	ISIN for the Reference Obligation not Found	ISIN for the reference obligation not found
R3041	Invalid Reference Entity	Reference entity should be 2 characters if country code or 6 characters if ISO 3166-2 - 2 character country code followed by dash - and up to 3 alphanumeric character country subdivision code or 20 characters if LEI
R3042	Inactive Reference Entity LEI	The trade date is outside the start/end date of the reference entity LEI
R3043	Reference Entity LEI Not Found	Reference entity LEI was not found on the client profile
R3044	Invalid Reference Entity	Reference entity LEI is not enabled on the client profile
R3046	Invalid Price Multiplier	Price multiplier is invalid
R3047	ISIN for the Underlying Instrument Code not found	ISIN for the underlying instrument code not found

Code	Title	Primary Message
R3048	Invalid Underlying Issuer LEI	Underlying issuer LEI should be 20 characters
R3049	Invalid Underlying Issuer LEI	The trade date is outside the start/end date of the underlying issuer LEI
R3052	Invalid Underlying Index Name	Underlying index name should be 4 characters if index or 25 characters or less if underlying index name is not included in the INDEX list
R3053	Mismatched Underlying Index Name	Underlying index name does not match the index enumeration value
R3054	Invalid Term of the Underlying Index	Term of the underlying index should be of the format {INTEGER-3}+'DAYS' or {INTEGER-3}+'WEEK' or {INTEGER-3}+'MNTN' or {INTEGER-3}+'YEAR'
R3055	Mismatched Option Type	Option type does not match the enumeration value
R3057	Invalid Strike Price CCY	Strike price currency is not valid
R3059	Mismatched Option Exercise Style	Option exercise style does not match the enumeration value
R3060	Mismatched Delivery Type	Delivery type does not match the enumeration value
R3061	Invalid Base Product	Base product should be 4 characters
R3062	Invalid Sub Product	Sub product should be 4 characters
R3063	Invalid Further Sub Product	Further sub product should be 4 characters
R3064	Mismatched Transaction Type	Transaction type does not match the enumeration value
R3065	Mismatched Final Price Type	Final price type does not match the enumeration value
R3066	Invalid Fixed Rate of Leg1	Fixed rate of leg1 is invalid
R3067	Invalid Fixed Rate of Leg2	Fixed rate of leg2 is invalid
R3068	Invalid Float Rate of Leg2	Float rate of leg 2 is invalid
R3069	Invalid IR Term of Contract of Leg2	IR term of contract of leg2 should be of the format {INTEGER-3}+'DAYS' or {INTEGER-3}+'WEEK' or {INTEGER-3}+'MNTN' or {INTEGER-3}+'YEAR'
R3070	Mismatched TFX Type	FX type does not match the enumeration value
R3071	Cannot Create Concatenation Id Due to Missing Required Fields	Cannot Create Concatenation Id Due to Missing Required Fields
R3072	Invalid value of Sub Asset class	Cannot Create Concatenation Id Because the Sub Asset Class is Not Supported by RTS 2 & RTS 23
R3073	Invalid value of CFDS Underlying Type	CFDS Underlying Type does not match the enumeration value
R3074	Invalid value of Equity Underlying Type	Equity Underlying Type does not match the enumeration value
R3075	Price outside tolerance	Price is outside Close Price tolerance range
R3076	Volume outside tolerance	Volume is outside Average Daily Volume tolerance range
R3077	Invalid Instrument Code	Must have less than equal to 512 chars and should contain printable ASCII characters from 32 to 126
R3078	Invalid Isins Size	Over 100 ISINs cannot be populated in field Underlying Instrument Code
R3079	Invalid Leis Size	Over 100 LEIs cannot be populated in field Underlying Issue

Code	Title	Primary Message
R3080	Invalid Notional Non Equity	Notional/Nominal Amount is required to be populated with a value above zero
R3081	Previous Version Not Found	Previous Version is required for Amend

7.4.4 Record Warnings - Business Validation

For records that pass syntax, business validation may result in a warning for the record. Warnings are issued for one of the following reasons:

Code	Title	Primary
W0001	Invalid CP LEI	Counterparty is not valid.
W0002	Inactive CP LEI	Counterparty LEI was not found
W0003	Inactive Ex Venue	Venue of execution does not exist or trade date is outside of the listed period for the venue.
W0004	Pub Flag Mismatch	Publication Flag and transparency rules do not match
W0005	ILQD Mismatch	ILQD transparency flag may not be correct
W0006	LRGS Mismatch	LRGS transparency flag may not be correct
W0007	SIZE Mismatch	SIZE transparency flag may not be correct
W0008	Deferral Type Mismatch	Deferral type provided does not match the deferral type that applies.
W0009	ISIN not found	Instrument Identification Code not found.
W0010	Responsibility Unknown	Reporting responsibility cannot be determined. Responsibility to report has been assumed.
W0011	No Responsibility	Publication Flag is set to D or Y, but there is no responsibility to report.
W0012	Responsibility to Report	Publication Flag is set to N, but there is a responsibility to report.
W0013	Mismatched Notional CCY	Notional currency does not match the currency of the instrument.
W0014	Incomplete Package	The following trades are pending due to an incomplete package:
W0015	Non-MiFID II	The security is not MiFID II eligible, but the override flag has mandated the trade be published.
W0016	MiFID II	The security is MiFID II eligible, but the override flag has mandated the trade not be published.
W0017	Late Trade	The trade was published more than 15 minutes after execution.
W0018	Late Trade	The trade was published more than 15 minutes after full details were due to be published.
W0020	Delegated LEI Not Set	Delegated reporting has occurred on an LEI that is not set up or not configured for delegated reporting.

Code	Title	Primary
W0021	Delegated LEI Mismatch	Trade specifies delegated reporting has not occurred while the LEI is configured for delegated reporting.
W0022	Trading Capacity Mismatch	Transparency flag SIZE was used while trading capacity is not DEAL
W0023	Currency Mismatch	The price currency on the trade does not match listed currencies for the instrument
W0024	Outside Operating Hours	Trade time is outside operating hours for Executing Entity.
W0026	Traded after expired	Trade time is after the expiry date for this security.
W0027	Emission Allowance Type Mismatch	The Emission Allowance Type does not match the type in reference data.
W0028	Price close to tolerance	Price is close to Close Price tolerance
W0029	Volume close to tolerance	Volume is close to Average Daily Volume tolerance
W0030	Erroneous Price	Price appears erroneous.
W0031	Missing Counterparty LEI	The counterparty LEI was not provided.
W0032	Late Trade	The trade was published more than 1 minute after execution.
W0033	Price outside tolerance	Price Check Override flag is set to Y, but price is considered outside tolerance.
W0034	Volume outside tolerance	Volume Check Override flag is set to Y, but volume is considered outside tolerance
W0035	Erroneous Volume	Volume appears erroneous

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