



MVT Member Trade Data File

Interface Specification

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Document History

Version	Date	Change Description
1.0	20/02/2026	Initial version
1.1	10/04/2026	General updates regarding Inbound folder details. Footnote added regarding IP addresses and ports. Field delimiter details added to section 4.
1.2	24/07/2026	Renumbering of sections to include section4: Inbound & Outbound File Process Additional details added regarding the inbound file process including information on ACK and NACK messages and an appendix with details on NACK messages Updated examples in 6.1 and 7.1
1.3	18/08/2026	Rectifying errors within section 5 regarding accepting multiple values in <i>Response Select Order ID</i> and <i>Response Matching Reference Number</i> fields. Note: these fields do NOT currently accept a delimiter.

Legal Disclaimer

This Interface Specification is a technical document that defines the technical standards, file structure, and delivery mechanism for the outbound MVT Member Trade Data file and should be read in conjunction with Consultation Notice 25/083 and Decision Notice 25/149. It does not form part of the LME Rules and Regulations. In the event of any inconsistency, the LME Rules and Regulations and any applicable Notices prevail.

The LME is not responsible for the accuracy, completeness, formatting, or integrity of any data submitted or uploaded by Members via the MVT trade data interface. Members remain solely responsible for validating, maintaining, and controlling all such data. The LME may update or amend this document at any time.

1 Introduction

This Interface Specification defines the technical standards, file structure, and delivery mechanism for the MVT Member Trade Data files issued by the London Metal Exchange (LME) as part of the Minimum Volume Threshold (MVT) monitoring framework. It explains how the outbound file is generated, delivered, and structured, enabling Members to correctly retrieve and interpret the data contained within it, and how to return a populated file via the inbound response process.

This document should be read in conjunction with the Adhering to Block Rules: Post-Trade Monitoring, Blocks Guidance, and Examples to Support the Blocks Guidance, available [here](#) on LME.com. This Interface Specification focuses strictly on the technical aspects of file delivery, structure, and usage.

2 How to Use This Specification

This specification provides Members with the technical information required to receive, identify, and process the outbound MVT Trade Data file made available via SFTP and respond via the inbound response process. It outlines the file naming conventions, folder structure, attribute definitions, and the Member-response fields included for completion.

An MVT Trade Data file will be made available to Members during the first week of each month—or on an ad-hoc basis—whenever a sample of their inter-office trading activity is selected for review. When a file is published, an e-mail notification will be sent to the Member's compliance team, advising that the file is available for download.

Using this specification, Members should:

1. Locate and download the MVT Trade Data file from the designated SFTP directory (the outbound process).
2. Interpret the file format and attributes using the definitions provided in the CSV Format section.
3. Populate the Member-response fields included in the file (left blank in outbound files), following the separate rule-based guidance published by the LME (see *Section 1* for links to documents).
4. Prepare the completed file for submission depositing the file in the designated SFTP directory (the inbound process).

3 SFTP Location

The MVT Member Trade data file will be made available to all members in the following public SFTP location¹:

MVT/outbound

The completed MVT Member Trade data file should then be placed in the following public SFTP location:

MVT/inbound

4 Inbound & Outbound File Process

4.1 MVT Trade Data Report File - Outbound Process.

The CSV files will have the following naming convention:

MNEMONIC_MVT_Trade_Data_Report_DDMMYYYY_HHMMSS.csv

¹ Details of the necessary IP addresses and Ports for the above SFTP services can be found in the latest LME Systems Connectivity Guide, which is available on the LME website <https://www.lme.com/Trading/Systems> (login details required)

Where:

Member Mnemonic = 3 letter Member Mnemonic

File Description = MVT_Trade_Data_Report

Creation Date = DDMMYYYY (Business date on which the file has been created)

Creation Timestamp = HHMMSS (Time when the file has been created)

Extension type = CSV

For example:

Monthly Report File: *ABC_MVT_Trade_Data_Report_06012025_091245.csv*

It is expected that the MVT Member Trade Data file size will be approximately 100-200KB every month

4.2 MVT Trade Data Report File - Inbound Process.

Member Response files are consumed by LME MVT Recon service once a day at 20:45 (business days) for each member.

The inbound file name should be the same format as the file received during the outbound process but with an incrementing version appended before the file extension.

For example:

Monthly Report Response File: *ABC_MVT_Trade_Data_Report_06012025_091245_v1.csv*

The regex for the expected response file name is:

`^[A-Za-z]{3}_MVT_Trade_Data_Report_\d{8}_\d{6}_v\d+\.csv$`

4.2.1 ACK / NACK Details

If either the file name or the file itself is in the wrong format, or any rows within the file are deemed invalid, then the Member will receive a .nack file, named identically to the response file, but with .nack appended.

For example:

Monthly Report Response File NACK:

ABC_MVT_Trade_Data_Report_06012025_091245_v1.csv.nack

If both the file name and the file contents are deemed valid, then the Member will receive an .ack file, named identically to the response file, but with .ack appended

For example:

Monthly Report Response File ACK:

ABC_MVT_Trade_Data_Report_06012025_091245_v1.csv.ack

A 0-byte .ack file suggests all data has been ingested successfully and there are no validation issues.

ACK/NACK files will appear in the Member's MVT/outbound directory

File received by individual member will go through multiple validations on the file name and file content. In case of file content validation errors, error message will be provided by each report ID.

NACK message will only contain the report ID's which have validation issue. Therefore, any records within the submitted file which did NOT result in a NACK error must be assumed to have been successfully submitted.

For example: If a member submits an inbound file containing 2 records and receives a NACK error message for one of the records then the second record has been successfully ingested.

Further details of specific NACK validation rules that are applied on the file received from the member can be found in the appendix.

4.3 Housekeeping

The SFTP outbound folder will accrue at least 7 months of files. Note, housekeeping uses the file date stamp and not the business date in the file name.

An empty MVT Trade Data Report file will be available in case no input is required for the month. This report will be available in the MVT/outbound area.

The MVT/inbound location will be polled periodically and the file ingested.

5 CSV Format

Attribute Name	Type	Description
Report Id	Big Int	Uniquely Identified Sequence Number to identify MVT reported trade (Used in both inbound & outbound file).
Business Date	string	Business Date of the Trade. YYYY-MM-DD
Trade Date	string	Trading Date. YYYY-MM-DD
Matching Reference Number	string	Unique match number assigned to the matched Trade by LMEsmart.
Venue	string	Trading Venue as populated in LMEsmart during execution.
Contract	string	A unique code to identify the contract e.g. PBDF, MCDF
Volume	int	Trading Volume.
Prompt	string	Prompt Date of the contract, YYYY-MM-DD
Price	decimal	Traded Price, 10-digit price with 6 decimal places. e.g. 0.881165
Leg Count	int	Total number of Legs on the Trade.

Attribute Name	Type	Description
		0 – for outright >1 – for multiple legs.
Leg Number	int	Leg number NULL – for outright >0 – for multiple legs.
Trade Time	string	Time of the trade, YYYY-MM-DD HH:MM:SS
MVT Exception Reason	string	Null for Outbound. For Inbound files, this field is mandatory and populated by the Member in accordance with the guidance issued in Adhering to Block Rules.
Response Select Order ID	Big int	LMeselect execution Select Order ID ² . Null for Outbound. For Inbound files, this field is populated by the Member in accordance with the guidance issued in Adhering to Block Rules.
Response Matching Reference Number	Big int	Matching Reference Number Null for Outbound For Inbound files, this field is populated by the Member in accordance with the guidance issued in Adhering to Block Rules.
Supporting Evidence Provided	string	Possible Values – Y/N Null for Outbound For Inbound files, this field is populated by the Member in accordance with the guidance issued in Adhering to Block Rules

² Referred to in OTP as Order ID (Fix Tag 37) and in LMEsmart as Select Order Number (Fix Tag 5939)

6 CSV Examples: Outbound Process

6.1 Outright Trade below Minimum Value Threshold

Business Date		Trade Date		Matching Reference Number	Venue	Contract	Volume	Prompt	Price	Leg Count	Leg Number	Trade Time	Initiating Matching Reference Number	Initiating Select Order ID	MVT Exception Reason	Supporting Evidence
08/07/2026		08/07/2026		20260708000000007	Electronic	CADF	5	19/08/2026	13200	0		08/07/2026 15:57				

7 CSV Examples: Inbound Process

7.1 Outright Trade below Minimum Value Threshold.

Business Date		Trade Date		Matching Reference Number	Venue	Contract	Volume	Prompt	Price	Leg Count	Leg Number	Trade Time	Initiating Matching Reference Number	Initiating Select Order ID	MVT Exception Reason	Supporting Evidence
08/07/2026		08/07/2026		20260708000000007	Electronic	CADF	5	19/08/2026	13200	0		08/07/2026 15:57		2618900000000001	Electronic	N

8 Appendix

8.1 NACK Responses

The following describes the different validation rules that are applied on the file received from the Member via the inbound sftp folder.

Validation Rule	Rule description	NACK message Format	NACK file name	Comments
FileName Format Validation	Expected format: [Mnemonic]_Trade_Data_Report_YYYYMMDD_HHMMSS_v[n].csv	N/A	<<Filename submitted by Member>>.NACK { 0 byte file }	n - Iteration of response on original Trade Report file YYYYMMDD – Can be any date same as trade file or current date
File Validation	When the file is unparsable.	File Name: <<Filename submitted by Member>> Status: NACK Errors: “File could not be processed due to an unexpected processing error. Please contact support.”	<<Filename submitted by Member>>.NACK	Whole file is rejected and would need to be resubmitted.
File Validation	When LME MVT service is unable to ingest data due to technical reasons	File Name: <<Filename submitted by Member>> Status: NACK Errors: “File could not be processed due to an unexpected system error. Please contact support.”	<<Filename submitted by Member>>.NACK	Whole file is rejected and would need to be resubmitted.
File contents validation	Report ID validation	File Name: <<Filename submitted by Member>> Status: NACK Errors: << Error Message for individual error type >>	<<Filename submitted by Member>>.NACK	File Name: <<Filename submitted by Member>> Status: NACK Errors:

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Error Type	Error Message
Report ID blank	Invalid Report ID with value
Negative Integer	Negative Report ID values provided as <<received in the file>>
Report Id not found	Cannot map Report Id to Long with <<received in the file>>
Missing Report ID	Report ID column name is misspelled / missing the Error Message: "Missing column: Report ID;"

- Invalid Report ID with value
- Negative Report ID values provided as -10
- Report ID column name is misspelled / missing the Error Message: "Missing column: Report ID"
- Cannot map Report Id to Long with <<143535>>

File contents validation	Initiating Matching Reference Number Validation	File Name: <<Filename submitted by Member>> Status: NACK Errors: - Report ID : <<received Report ID >>, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: << Error Message >>	<<Filename submitted by Member>>.NACK	Example File content when we receive non-numeric value of ASDFGHHF & ASDFFGHD for the Initiating Matching Reference number on Report ID 12624 and 12622 respectively. File Name: AMT_MVT_Trade_Data_Report_2007 2026_225838_v5.csv Status: NACK
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		<table><tr><th>Error Type</th><th>Error Message</th></tr><tr><td>Non-numeric Initiating Matching Reference number</td><td>Cannot map Initiating Matching Reference Number to Long with value << <i>initiating matching reference number received in the file</i> >></td></tr><tr><td>Initiating Matching Reference number column name is misspelled / missing</td><td>Missing column: Initiating Matching Reference number;</td></tr></table>	Error Type	Error Message	Non-numeric Initiating Matching Reference number	Cannot map Initiating Matching Reference Number to Long with value << <i>initiating matching reference number received in the file</i> >>	Initiating Matching Reference number column name is misspelled / missing	Missing column: Initiating Matching Reference number ;		Errors: - Report Id: 12622, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: Cannot map Initiating Matching Reference Number to Long with value ASDFGHHF - Report Id: 12624, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: Cannot map Initiating Matching Reference Number to Long with value ASDFFGHD
Error Type	Error Message									
Non-numeric Initiating Matching Reference number	Cannot map Initiating Matching Reference Number to Long with value << <i>initiating matching reference number received in the file</i> >>									
Initiating Matching Reference number column name is misspelled / missing	Missing column: Initiating Matching Reference number ;									
File contents validation	Initiating Select Order ID Validation	File Name: <<Filename submitted by Member>> Status: NACK Errors: - Report ID : <<received Report ID >>, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: << Error Message >> <table><tr><th>Error Type</th><th>Error Message</th></tr><tr><td>Non-numeric Initiating Select Order ID</td><td>Cannot map Initiating Select Order ID to Long with value << <i>Initiating Select Order ID received in the file</i> >></td></tr></table>	Error Type	Error Message	Non-numeric Initiating Select Order ID	Cannot map Initiating Select Order ID to Long with value << <i>Initiating Select Order ID received in the file</i> >>	<<Filename submitted by Member>>.NACK	Example File content when we receive non-numeric values of ADWWTT & HUTGFRER for Initiating Select Order ID on Report ID 23423 and 24567respectively. File Name: AMT_MVT_Trade_Data_Report_2007 2026_225838_v5.csv Status: NACK Errors: - Report Id: 23423, Initiating Matching Reference Number, Initiating Select Order ID, Error: Cannot map Initiating Matching Reference Number/ Initiating		
Error Type	Error Message									
Non-numeric Initiating Select Order ID	Cannot map Initiating Select Order ID to Long with value << <i>Initiating Select Order ID received in the file</i> >>									

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		<table><tr><td>Initiating Select Order ID column name is misspelled / missing</td><td>Missing column: Initiating Select Order ID;</td></tr></table>	Initiating Select Order ID column name is misspelled / missing	Missing column: Initiating Select Order ID;		Select Order ID to Long with value ADWWTT - Report Id: 24567, Initiating Matching Reference Number, Initiating Select Order ID, Error: Cannot map Initiating Matching Reference Number to Long with value HUTGFRER				
Initiating Select Order ID column name is misspelled / missing	Missing column: Initiating Select Order ID;									
File contents validation	MVT Exception Reason Validation	File Name: <<Filename submitted by Member>> Status: NACK Errors: - Report ID : <<received Report ID >>, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: << Error Message >> <table><tr><th>Error Type</th><th>Error Message</th></tr><tr><td>MVT Exception Reason is blank</td><td>MVT Exception Reason is blank</td></tr><tr><td>MVT Exception Reason column name is misspelled / missing</td><td>Missing column: MVT Exception Reason;</td></tr></table>	Error Type	Error Message	MVT Exception Reason is blank	MVT Exception Reason is blank	MVT Exception Reason column name is misspelled / missing	Missing column: MVT Exception Reason;	<<Filename submitted by Member>>.NACK	Example File content when we receive MVT exception reason as blank File Name: AMT_MVT_Trade_Data_Report_20072026_225838_v6.csv Status: NACK Errors: - Report Id: 25423, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: MVT Exception Reason is blank
Error Type	Error Message									
MVT Exception Reason is blank	MVT Exception Reason is blank									
MVT Exception Reason column name is misspelled / missing	Missing column: MVT Exception Reason;									
File contents validation	Supporting Evidence Validation	File Name: <<Filename submitted by Member>> Status: NACK	<<Filename submitted by Member>>.NACK	Example File content when we receive Supporting Evidence as blank						

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		Errors: - Report ID : <<received Report ID >>, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: << Error Message >> <table><thead><tr><th>Error Type</th><th>Error Message</th></tr></thead><tbody><tr><td>Supporting Evidence is blank</td><td>Supporting Evidence is blank</td></tr><tr><td>Supporting Evidence column name is misspelled / missing</td><td>Missing column: Supporting Evidence;</td></tr></tbody></table>	Error Type	Error Message	Supporting Evidence is blank	Supporting Evidence is blank	Supporting Evidence column name is misspelled / missing	Missing column: Supporting Evidence ;		File Name: AMT_MVT_Trade_Data_Report_20072028_225838_v6.csv Status: NACK Errors: - Report Id: 26423, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: Supporting Evidence is blank
Error Type	Error Message									
Supporting Evidence is blank	Supporting Evidence is blank									
Supporting Evidence column name is misspelled / missing	Missing column: Supporting Evidence ;									
File contents validation	30 days old data Validation	File Name: <<Filename submitted by Member>> Status: NACK Errors: - Report ID : <<received Report ID >>, Initiating Matching Reference Number: , Initiating Select Order ID: , Error: << Error Message >> <table><thead><tr><th>Error Type</th><th>Error Message</th></tr></thead><tbody><tr><td>30 days old data not reconciled</td><td>Report is older than 30 days and cannot be processed</td></tr></tbody></table>	Error Type	Error Message	30 days old data not reconciled	Report is older than 30 days and cannot be processed	<<Filename submitted by Member>>.NACK	Example File content File Name: CAM_MVT_Trade_Data_Report_02072026_090102_v1.csv Status: NACK Errors: - Report Id: 147, Initiating Matching Reference Number: , Initiating Select Order ID: 10, Error: Report is older than 30 days and cannot be processed		
Error Type	Error Message									
30 days old data not reconciled	Report is older than 30 days and cannot be processed									