



LMESword Technical Specification

File Specification – February 2021

LME Depository Service Project

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THE LONDON METAL EXCHANGE

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Document History

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08-10-20	0.2	Dan Clarke	Added Lodgement, Withdrawal, Warrant downloads
16-11-20	1.0	PTO	Updated draft for external publication
08-01-20	1.1	PTO	5.2 add Blank Tabs to Lodge Header row 6.2 add Agent Id to Withdrawal Header record 7.4 comment to show Rent start date is only present in Withdrawal instruction downloads once in a completed state
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04-02-21	1.4	Ash Amzour	3.5 Text added to Description column for 'Created Date' field of Warrant Detail Record
15-02-21	1.5	PTO	5.2 add Blank Tabs to the end of Lodge Header row

Associated Documents

Document	Version
LMEs word Operating Procedures	V1.0



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1 Overview

As part of the new Electronic Warranting model there have been some necessary changes to the file structure and format used when creating Lodgement and Withdrawal instructions using the file upload method.

Whilst there may be further operational and technical documentation to follow, this initial document covers the changes made to the file uploads so that Members and London Agents have additional lead time to make any changes to their internal platforms and processes to facilitate integration with the new version of LMEsword.

Additional Information

- Users will be able to conduct early sight testing of the below in our Member Test environment in advance of the service being launched.
- The file upload process itself remains unchanged from the existing and this will be documented in the LMEsword Operating Procedures.
- The previous limit of 200 warrants per instruction has been lifted and users can now add up to 10,000 warrants per instruction.
- Per the agreed new model, there is a change in actors when creating instructions
- LMEsword will be upgrading from version 2.0 to version 3.0



2 Summary of File Interfaces

2.1 Field Types

The following abbreviations have been used when describing field types:

Abbreviation	Short For	Description
A	Alpha-numeric	Any alpha-numeric value (not tab)
I	Integer	Any numeric value made up of digits 0-9
F	Floating Point	Money value in given currency

2.2 File Downloads

2.2.1 Warehouse Agent Participant Downloads

In order to use downloads, the User will select the warrants to be downloaded using LMEsword, and then select the required download option.

Short codes used in the files can be obtained from the LME Rule Book reports for Brands and Warehouses, or through LMEsword downloads of the system Static Data.

Warrant Download Type	Description
Full Text Format	Contains the full extended details that are present on the warrant(s). These include short-codes and full text descriptions of brands, warehouses etc.
Upload Format	Contains the full warrant details in the format that can be uploaded back into LMEsword. Short codes are present for brands, warehouses etc. This can be used to generate new upload files for new warrants based on existing warrants.
Warrant IDs only	A general purpose facility that allows warrants to be downloaded from LMEsword. This only downloads the information required to uniquely identify a Warrant so that other transactions can be carried out on the back office system. Alternatively, the warrants can be uploaded into LMEsword to be operated on at a future date.
Lodgement	This download can be used to provide details of the lodgement and associated warrants.



Withdraw	This download can be used to provide details of the withdrawal and associated warrants.
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2.2.2 Clearing/Non-Clearing Participant Downloads

In order to use downloads, the User will select either the warrants or the transactions to be downloaded using LMEsword.

Transaction Type	Description
Warrant IDs Only	A general purpose facility that allows warrants to be downloaded from LMEsword. This only downloads the information required to uniquely identify a warrant so that other transactions can be carried out on the back office system.
Warrant Details (partial or full)	This downloads warrant details from LMEsword in order to provide stock details to the back office system.
Lodgement	This download can be used to provide details of the lodgement and associated warrants.
Withdrawal	This download can be used to provide details of the withdrawal and associated warrants.
Cleared Transfer	Once the clearing process has been completed on LMEsword, this download can be used to provide details of which warrants have been delivered to or received from LME.
Ex-Cleared Transfer	Once an ex-cleared transfer has been completed on LMEsword, this download can be used to provide details of which warrants have been delivered to, or received from, other participants.
Inter-Account Transfer	Once warrants have been transferred between a participant's LMEsword accounts, this download can be used to provide details of these warrants and their associated account.
Reconciliation – Warrants In and Out	As an end of day reconciliation check, this download will provide a summary of movements in and out of each participant account.
Reconciliation – Warrants Held By Account	As an end of day reconciliation check, this download will provide a breakdown of each account and which warrants are held in them.



2.3 File Uploads

2.3.1 Warehouse Agent Participant Uploads

Short codes used in the files can be obtained from the LME Rule Book reports for Brands and Warehouses.

Transaction Type	Description
Upload Warrant IDs	Upload warrant ids and warehouse and location details. These can be uploaded via the LMEsword interface into the relevant transaction.
Upload Warrants	Contains the full warrant details specified using short-codes for brands, warehouses etc. Once uploaded, the warrants are created as specified in the file.
Create and Lodge Warrants	Used to create LMEsword instruction(s), this can be used to generate a lodgement instruction by lodging and creating new warrants.

2.3.2 Clearing/Non-Clearing Participant Uploads

Transaction Type	Description
Warrant IDs Only	A general purpose upload that allows Warrant Ids to be uploaded to LMEsword. These can be uploaded via the LMEsword interface into the relevant transaction.
Withdrawal	Used to create LMEsword instruction(s) to withdraw warrants from the depository. LMEsword will need to be provided with details of the warrants.
Cleared Transfer	Used to create LMEsword instruction(s) to deliver warrants to LME clearing (i.e. Giver only). LMEsword will need to be provided with details of the warrants.
Ex-Cleared Transfer	Used to create LMEsword instruction(s) to deliver warrants to other participants (i.e. Giver only). LMEsword will need to be provided with details of the warrants.
Inter-Account Transfer	Used to create LMEsword instruction(s) to move existing warrants between accounts. LMEsword will need to be provided with details of the warrants and the account into which they are to be transferred.

2.4 Static Data Downloads

This section provides details of static data (reference data) downloads in order to create up-to-date look up tables on the back office systems.

Transaction Type	Description
Country	Provides a full list of country codes and associated country names.
Product	Provides a full list of product codes and associated product names.
Product Shape	Provides a full list of product shape codes and associated product shape names.
Product Specification	Provides a full list of product specification codes and associated product specification texts.
Brand	Provides a full list of brand codes and associated brand names.
Warehouse	Provides a full list of warehouse codes and associated warehouse names.
Warehouse Company	Provides a full list of warehouse company codes and associated warehouse company names.
Warehouse Company Location	Provides a full list of location codes and associated location names.
Participant Account	Provides a full list of participant account codes and associated participant account names.
Rent Rates	Provides a full list of currently active rent rates.
Reject Reasons	Provides a full list of reject codes and associated descriptions.
Participant	Provides a list of LMEsword participant Ids and names
Discount Rates	Provides details of the prevailing shape and age discount rates.

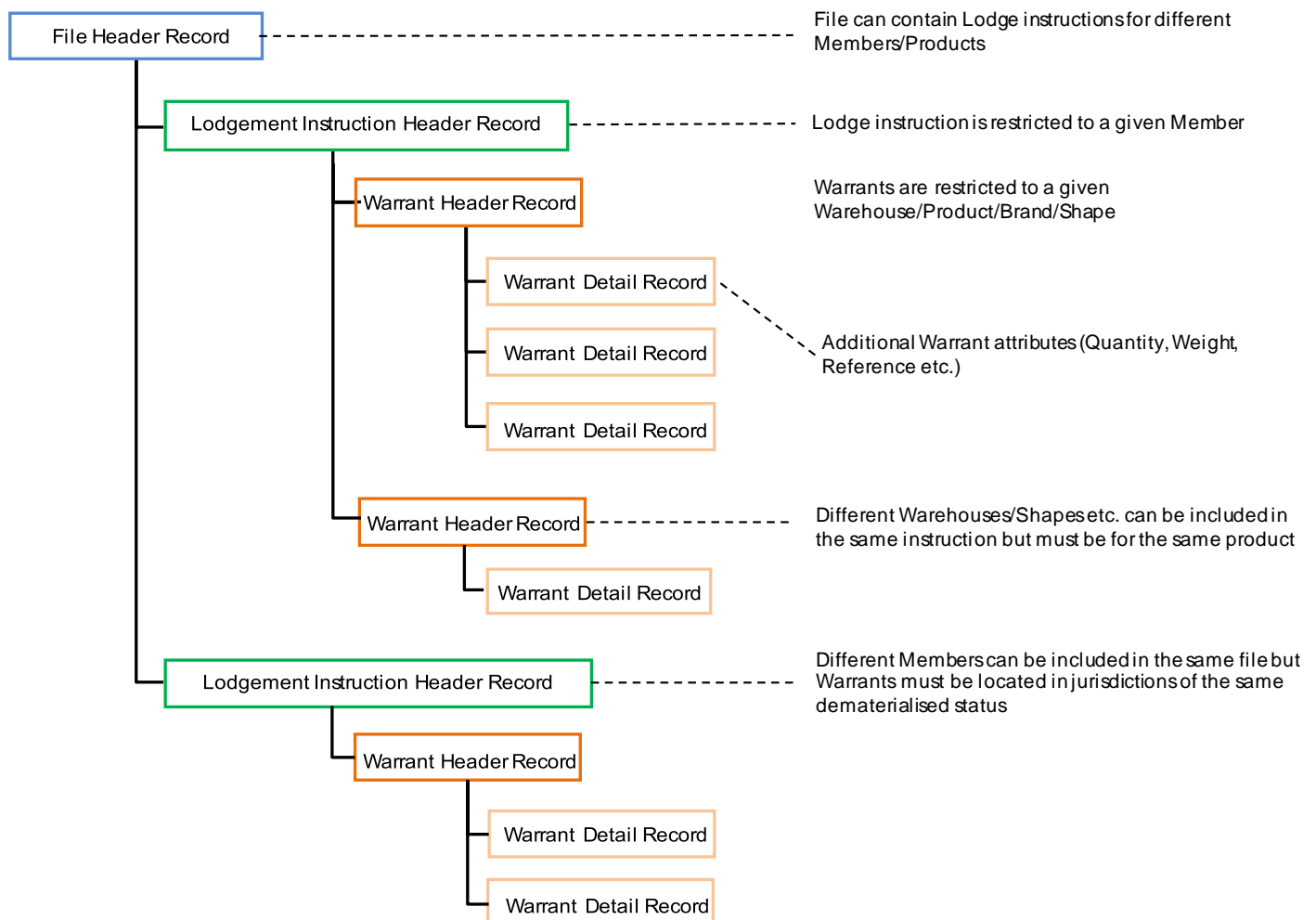


3 Upload Lodge Instruction - File Specification

This file will contain the necessary details to create and lodge at least one batch of warrants.

Multiple products per Lodgement are not valid, but this can be solved by multiple Lodge Instructions per file. A lodge instruction can be created containing multiple warrant headers for the same Product Code and Member (as defined in the Lodge Instruction Header) but with different attributes (as defined at the Warrant Header and Detail Level).

3.1 File structure



3.2 File Header Record

	Field Name	Size	Type	Mandatory / Optional	Description
1.	File Type	5	A	M	'LODGE'
2.	Upload Date	8	A	O	Date file created CCYYMMDD
3.	Number of Instructions	9	I	M	Number of Lodge Header records in the file

3.3 Lodge Instruction Header Record

	Field Name	Size	Type	Mandatory / Optional	Description
1.	Record Type	5	I	M	'0' - Header
2.	Member Id	9	I	M	Id of the LME Category 1-5 Member requesting the creation of the warrant.
3.	Lodge Reference Number	20	A	M	

3.4 Warrant Header Record

Note that this is a new Record Type field compared to the existing Upload Warrant Header Record.

	Field Name	Size	Type	Mandatory / Optional	Description
1.	Record Type	1	I	M	'1' – Warrant Header
2.	Number of records	9	I	M	Number of Warrant Detail records in the file associated with the Warrant Header record
3.	Warehouse Company Code	6	A	M	Code defined by the LME
4.	Warehouse Location Code	6	A	M	Code defined by the LME
5.	Foreign Trade Zone (FTZ) Number	20	A	O	
6.	Country Code	6	A	M	
7.	Warehouse Code	6	A	M	
8.	Product Code	2	A	M	
9.	Product Specification Code	10	A	M	
10.	Brand Code	6	A	M	
11.	Product Shape Code	6	A	M	
12.	Issuing Member Id	9	I	N/A	Id of the LME Category 1-5 Member requesting the creation of the warrant.



13.	Bearer Name Text	50	A	M	
14.	Title Text	50	A	M	
15.	Certificate of Analysis Text	100	A	M	
16.	Rent Start Date	8	D	M	

3.5 Warrant Detail Record

Note that this is a new Record Type field compared to the existing Upload Warrant Detail Record.

	Field Name	Size	Type	Mandatory / Optional	Description
1.	Record Type	1	I	M	'2' – Warrant Detail
2.	Warrant Number	10	A	M	
3.	Quantity Text	50	A	M - Metal O - Plastics	Any value specified for plastic warrants will be ignored and overwritten with default text.
4.	Net Weight	9	I	M	
5.	Gross Weight	9	I	M	Must be the same as the Net Weight for all products other than Nickel which may differ.
6.	Created Date	8	A	M	If date in this field differs to date of upload, 'Created Date' in Warrant Search Screen of GUI will always display date of upload.
7.	Creation Type	1	A	O	
8.	Old Warrant Number	10	A	O	Warrant number of warrant being superseded by re-issue
9.	On Warrant Reference 1	300	A	O	
10.	On Warrant Reference 2	600	A	O	
11.	Off Warrant Reference	200	A	O	



12.	Production Batch Number	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
13.	Production Date	8	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
14.	Warehouse Arrival Date	8	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
15.	Packing List Date And Number	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
16.	Material Safety Date And Number	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
17.	Issuing Company	50	A	O	Only used for RMC and Ferrous
18.	Weight of Metal	9	I	M – RMC	For molybdenum only

3.6 Example Files

3.6.1 Create and Lodge Warrant file

Previously this would have required 2 separate files, one for the lodgement instruction and another for the warrants.

The below example will create two lodge instructions

- LodgeRef123 includes 100 Aluminium Alloy warrants assigned to Member 1005
- LodgeRef456 includes 20 Copper warrants (2 lots of 10 with the different warrant number sequence and create dates) for Member 1007

```

1 LODGE→20200124→2CRMF
2 0→1005→LodgeRef123→1CRMF
3 1→1→WHCAA→BARC→ES→GCWH→AA→A380.1→BARAA→ING→BearerName→is.entitled.to→CoA123→20200601CRMF
4 2→kr11Jun.11→100→20000→20000→20200611→→→→→→→→→→CRMF
5 0→1007→LodgeRef456→2CRMF
6 1→2→WHCAA→BARC→ES→GCWH→CA→467→DJB→CAT→BearerName→is.entitled.to→CoA456→20200601CRMF
7 2→kr11Jun.112→10→20000→20000→20200611→→→→→→→→→→CRMF
8 2→kr01Apr.112→10→20000→20000→20200401→→→→→→→→→→

```

3.7 Error Handling

The error handling process will continue to write validation errors into the log file and can be downloaded in XML format.

Example:

```
<ImeSword_interface_results>
  <fileType>Upload Warrant (level 2)</fileType>
  <fileName>
</fileName>
  <processed0n>17/06/2020</processed0n>
  <participant>WhAgent01</participant>
  <fileAccepted>False</fileAccepted>
  <rowsProcessed>2</rowsProcessed>
  <rowsCreated>0</rowsCreated>
  <rowsUpdated>0</rowsUpdated>
  <rowsFailed>1</rowsFailed>
</line>
  <number>1</number>
  <type>Validation</type>
  <message>The uploaded file contains an invalid Warehouse Company Code, please amend and retry the upload</message>
  <code>
</code>
</line>
</line>
  <number>1</number>
  <type>Validation</type>
  <message>The uploaded file contains an invalid Warehouse Company-Location combination, please amend and retry the upload</message>
  <code>
</code>
</line>
```

4 Upload Withdrawal Instruction - File Specification

The Withdrawal process is now initiated by the Member and then accepted and authorised by the relevant London Agent.

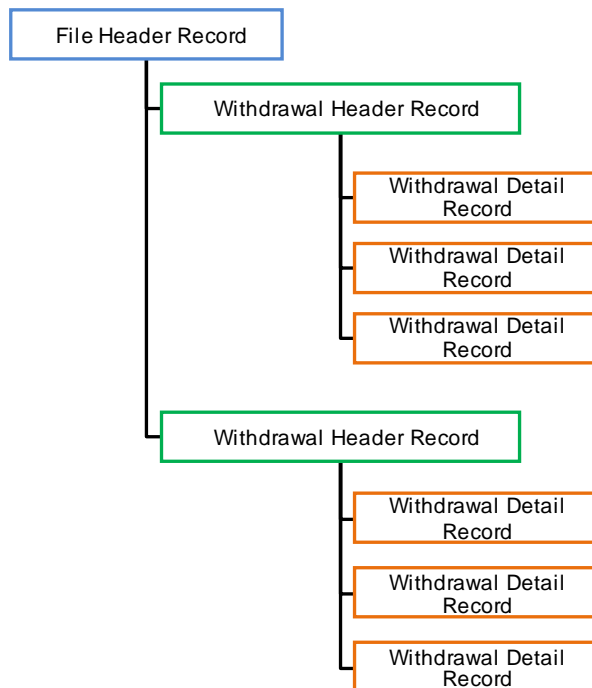
The file processing allows requests to be produced for multiple Agents, based on the Warehouse where the warrant is stored.

To support the new changes, a new field has been introduced to indicate the Withdrawal Reason.

This has been added to the detail record, after Weight Unit to minimise the impact of the change. Permissible values will be C (Cancellation) and M (Mobilisation).

4.1 File Structure

Each file



4.1.1 File Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1.	File Type	5	A	M	'WDRAW'
2.	Upload Date	8	A	O	Date file created CCYYMMDD
3.	Number of instructions	9	I	M	Number of header records in the file excluding the file header record

4.1.2 Withdrawal Header Record

	Field Name	Size	Type	Mandatory / Optional	Description
1.	Record Type	1	A	M	'0' - Header
2.	Withdrawal Reference	20	A	M	
3.	Created User Code	10	A	N/A	Required as dummy field for file
4.	Created Date	8	A	N/A	Required as dummy field for file
5.	Authorised User Code	10	A	N/A	Required as dummy field for file
6.	Authorised Date	8	A	N/A	Required as dummy field for file
7.	Completed Indicator	1	A	N/A	Required as dummy field for file
8.	User Text	400	A	O	
9.	Number of detail records	9	I	M	Number of detail records in the withdrawal excluding the withdrawal header record
10.	Reason for Withdrawal	1	A	M	Permitted values are C (For Cancellation) or M (for Mobilisation)

11.	Agent ID	9	I	M	Numerical reference representing the London Agent the withdrawal instruction is intended for
-----	----------	---	---	---	--

4.1.3 Withdrawal Detail Record

	Field Name	Size	Type	Mandatory/Optional	Description
1.	Record Type	1	A	M	'1' - Warrant Id Only
2.	Reject ID	9	I	N/A	Required as dummy field for file
3.	Reject Reason	50	A	N/A	Required as dummy field for file
4.	Warrant Number	10	A	See Figure 3	
5.	Warehouse Company Code	6	A	See Figure 3	Code defined by the LME
6.	Warehouse Location	6	A	See Figure 3	Code defined by the LME
7.	Warrant Identifier	9	I	See Figure 3	



Fig. 3

If all fields are supplied, as the third example in Figure 3 above, the Warrant Identifier will take precedence and the combination of Warrant Number / warehouse Company Code / warehouse Location will have to be valid for the given Warrant Identifier.

4.1.4 Previous Tab-delimited file format:

- Only mandatory fields are included
- LMEsword Warrant Id used as identifier

```

1 WDRAW→20200611→2CRLF
2 0→Member01_TestUpload→→→→→→→→1CRLF
3 1→→→→→→→→2520734

```

4.1.5 New Tab-delimited file format:

- Only mandatory fields are included
- LMEsword Warrant Id used as identifier
- Withdrawal Reason (green highlight)
- Instruction 1 (Row 2) will be for Mobilisation
- Instruction 2 (Row 4) will be For Cancellation

```

1 WDRAW→20200611→2CRLF
2 0→Member01_TestUpload→→→→→→→→1MCRFLF
3 1→→→→→→→→2520734CRLF
4 0→Member01_TestUpload2→→→→→→→→1CCRFLF
5 1→→→→→→→→2520714

```

4.2 Logging

The system will validate the contents of the new Reason for Withdrawal column. If a different value is entered (e.g. a number or a letter other than M or C) in line with the existing behaviour the file upload will fail and a log file will be produced.

The log file will report a validation message stating 'The uploaded file contains an invalid Reason for Withdrawal code, please amend and retry the upload'.

5 Download Lodgement Instruction

This file will contain the necessary details for a batch of lodge instructions. As mentioned previously, the User will be able to select whether the warrant information associated with the transaction (in this case a Lodge) is retrieved as Level 1 (Ids), Level 2 (Partial) or Level 3 (Full) details. This applies to all the transaction specific downloads.

5.1 File Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	File Type	5	A	M	'LODGE'
2	Download Date	8	A	M	Date file created CCYYMMDD
3	Number of Records	9	I	M	Number of records in the file excluding the header record

5.2 Lodge Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Record Type	1	A	M	'0' - Header
2	Blank Tab	1	A	M	
3	Blank Tab	1	A	M	
4	LMEsword Account Code	10	A	M	
5	Lodge Reference	20	A	M	
6	Created User Code	10	A	M	
7	Created Date	8	A	M	CCYYMMDD



8	Authorised User Code	10	A	M	
9	Authorised Date	8	A	M	CCYYMMDD
10	Completed Indicator	1	A	M	Completed - Y or N
11	User Text	400	A	O	
12	Number of details records	9	I	M	Number of detail records in the lodge excluding the lodge header record
13	Blank Tab	1	A	M	
14	Blank Tab	1	A	M	

5.1 Lodge Detail Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Record Type	1	A	M	'1' - Warrant Id Only '2' - Partial Warrant Details '3' - Full Warrant Details
2	Reject ID	9	I	O	Reason ID for rejecting warrant from Lodge
3	Reject Reason	50	A	O	Free text entered by the user

6 Download Withdrawal Instruction

This file will contain the necessary details for a batch of withdrawal instructions.

6.1 File Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	File Type	5	A	M	'WDRAW'
2	Download Date	8	A	M	Date file created CCYYMMDD
3	Number of records	9	I	M	Number of records in the file excluding the header record

6.2 Withdrawal Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Record Type	1	A	M	'0' - Header
2	Withdrawal Reference	20	A	M	
3	Created User Code	10	A	M	
4	Created Date	8	A	M	CCYYMMDD
5	Authorised User Code	10	A	M	
6	Authorised Date	8	A	M	CCYYMMDD
7	Completed Indicator	1	A	M	Completed - Y or N
8	User Text/Dep Text	400	A	O	User text or depository text depending on who initiates download
9	Number of records	9	I	M	Number of detail records in the withdrawal excluding



10	Reason for Withdrawal	1	A	M	the withdrawal header record Permitted values are C (For Cancellation) or M (for Mobilisation)
11	Agent ID	9	I	M	Numerical reference representing the London Agent the withdrawal instruction is intended for

6.3 Withdrawal Detail Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Record Type	1	A	M	'1' - Warrant Id Only '2' - Partial Warrant Details '3' - Full Warrant Details
2	Reject ID	9	I	O	Reason ID for rejecting warrant from withdrawal
3	Reject Reason	50	A	O	Free text entered by the user

7 'Warrant Information' Download

This file will contain warrant information only (i.e. not the details of any transactions). Depending on how much detail is required, the following levels are available as downloads:

- **Level 1** - Warrant Ids only. This contains the minimum information required to uniquely identify the warrants
- **Level 2** - Partial warrant details. This contains the main information concerning the warrants
- **Level 3** - Full warrant details. This contains all the information available concerning the warrants

7.1 File Header Record

	Field Name	Size	Type	Mandatory/ Optional	Description
1	File Type	5	A	M	'WRTID' or 'WRTPD' or 'WRTFD' depending on detail level
2	Download Date	8	A	M	Date file created (and rent accrued up to date) CCYYMMDD
3	Number of records	9	I	M	Number of records in the file excluding the file header record

7.2 File Detail Record: Level 1 – Warrant ID Only

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Warrant Number	10	A	M	Code defined by the LME
2	Warehouse Company Code	6	A	M	
3	Warehouse Location Code	6	A	M	
4	LMEsword Warrant Identifier	9	I	M	



7.3 File Detail Record: Level 2 – Partial Warrant Details

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Warrant Number	10	A	M	
2	Warehouse Company Code	6	A	M	Code defined by the LME
3	Warehouse Location Code	6	A	M	Code defined by the LME
4	LMEsword Warrant Identifier	9	I	M	
5	Product Code	2	A	M	Code defined by the LME
6	Brand Code	6	A	M	Code defined by the LME
7	Product Shape Code	6	A	M	Code defined by the LME
8	Rent Start Date	8	A	M	CCYYMMDD
9	Rent Accrued	9	F	M	
10	Rent Currency	3	A	M	Standard ISO currency code
11	Net Weight	9	I	M	
12	Gross Weight	9	I	M	
13	Unit of Weight	10	A	M	Currently always 'KG'
14	Weight of Metal	9	I	M – RMC	For molybdenum only



7.4 File Detail Record: Level 3 – Full Warrant Details

	Field Name	Size	Type	Mandatory/ Optional	Description
1	Warrant Number	10	A	M	
2	Warehouse Company Code	6	A	M	Code defined by the LME
3	Warehouse Location Code	6	A	M	Code defined by the LME
4	LMEsword Warrant Identifier	9	I	M	
5	Product Code	2	A	M	Code defined by the LME
6	Brand Code	6	A	M	Code defined by the LME
7	Product Shape Code	6	A	M	Code defined by the LME
8	Rent Start Date	8	A	M	CCYYMMDD *Only represent in Withdrawal instruction downloads once instruction is in a completed state
9	Rent Accrued	9	F	M	
10	Rent Currency	3	A	M	Standard ISO currency code
11	Net Weight	9	I	M	
12	Gross Weight	9	I	M	
13	Unit of Weight	10	A	M	Currently always 'KG'
14	FTZ Text	20	A	O	



15	Country Code (country of origin)	6	A	M	COUNTRY OF ORIGIN
16	Warehouse Code	6	A	M	Code defined by the LME
17	Product Specification Code	10	A	O	Code defined by the LME
18	Certificate of Analysis Text	100	A	O	
19	Quantity Text	50	A	M	
20	Authorised Date	8	A	M	CCYYMMDD
21	On Warrant Reference 1	300	A	O	
22	On Warrant Reference 2	600	A	O	
23	Off Warrant Reference	200	A	O	warehouse agents only
24	Production Batch Number	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
25	Production Date	10	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
26	Warehouse Arrival Date	10	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
27	Warrant Expiry Date	10	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.

28	Packing List Date & No	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
29	Material Safety Date & No	50	A	N/A	This information is no longer required as was for Plastics. Must retain column for format.
30	Weight of Metal	9	I	M – RMC	For molybdenum only