

Hi-MTF: Massive Data Exchange and Authorization Workflow

Version 1.30

Confidential



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HISTORY OF CHANGES

Date	Version	Author	Description
7/6/2020	1.0		First Release
9/30/2020	1.1		<ul style="list-style-type: none"> Field 50 added to Listing F file Field 57 added to Listing F' file Renumbering of fields in Listing F' and F'' files Added comma and period separator conventions Added definitions for <issuer> and <date>_<time> fields Added Note for import date constraints
10/2/2020	1.2		Updates in Listing file: <ul style="list-style-type: none"> Field 5: reviewed Field 6: added "identifiers" Field 18, 21, 23 and 24: max char changed (8) Field 50: Not mandatory Field 51 reviewed notes and max char (48)
10/5/2020	1.3		Updates in Listing file: <ul style="list-style-type: none"> Field 5: reviewed Field 51: max 64 char and description reviewed Field 10: Parity added and value 9 Field 42: mandatory when field5=9 Field 43: mandatory when field5=9 Appendix: Decode Table added Field 51: added reference to Appendix: Decode Table
10/6/2020	1.4		Updates in Listing file: <ul style="list-style-type: none"> Field 5: added FIXLEV (9) Fields 60 and 61 switched

			<p>Updated in Updating File:</p> <ul style="list-style-type: none"> • Fileds 12, 13, 14: max 8 char • Field 18 – CFI added <p>Updates in Delisting / Restrike file:</p> <ul style="list-style-type: none"> • Field 8: 8 char • Field 9:renamed and new description • Field 13: new description
10/7/2020	1.5		Added Chapter 3: SFTP Server Details
10/22/2020	1.6		Listing section: added a new NOTE for csv files
10/23/2020	1.7		<ul style="list-style-type: none"> • Added Final Terms upload service’s details • Added F file for the download
10/30/2020	1.8		<ul style="list-style-type: none"> • Replaced “instrument” with “file” at step 5 of the section “Authorization Workflow”. • Modified field 41: TARGET 2 SECURITIES added “T2S equivalent” and “ECLR equivalent”
11/6/2020	1.9		Replaced ISIN separator “/”with “ ”
12/18/2020	1.10		CFI Code put in “Conditionally Required”
01/12/2021	1.11		<ul style="list-style-type: none"> • List of different cut offs added in section 3.2.1 - • Service hours and cut off. • Use of Listing file to update existing data added in section 5.1 - Listing. • Added meaning of “UPDATE” for field 59 in Listing file F’ (section 5.1.2 – F’ Listing File).

02/15/2021	1.12		Added "Records with Second Semaphore= No will not be imported." To step 6 in Authorization Workflow section
2/17/2021	1.13		<ul style="list-style-type: none"> • Multiplier field in F" Listing File is conditionally required. • Added section Final Terms files: naming conventions. • Added Note 2 to Delisting / Restrike section.
3/26/2021	1.14		<ul style="list-style-type: none"> • Cut Off Time added for Automatic Listing. • Cut off Time removed for Final Terms. • Adjust Effective Date modified from "T+1 or further" to "T or further".
3/31/2021	1.15		Updating Listing file: added note for fields 1 (type of Adjustments) and 18 (CFI Code)
4/19/2021	1.16		Field 55: modified format and note
5/11/2021	1.17		Listing File, Field 3: mandatory and list of prefixes
7/1/2021	1.18		Listing File, Field 3, the following prefixes are added: EYB EYE EYX
8/4/2021	1.19		Listing File, field 6 – Underlying ISIN is mandatory if the underlying is of "EQUI" type.
12/9/2021	1.20		Listing File, field 6 – exception added
9/2/2022	1.21		F Listing File: <ul style="list-style-type: none"> • ESG, Opening Time and Close Time fields added

			<ul style="list-style-type: none"> • Add Note to Underlying ISIN Code field • Euro Hedge field renamed as "Quanto" <p>F' Listing File:</p> <ul style="list-style-type: none"> • Renumbering • New description for Last Trading Date <p>F'' Listing File: renumbering</p> <p>F Updating File:</p> <ul style="list-style-type: none"> • T value added to Type of Adjust field • Opening Time and Close Time fields added <p>F' Updating File: renumbering</p> <p>F'' Updating File: renumbering</p> <p>New cut-off times in Service hours and cut off section</p>
25/02/2022	1.22		The values for Opening Time and Close Time fields have been replaced by the reference to Trading Guide – Hi-mtf
29/03/2022	1.23		Descriptions added to Type T and O in field 1 for F Updating file
05/04/2022	1.24		Added supported characters in <i>Format for csv Files</i> section. Opening Time and Close Time fields in F Listing and F Updating files: added format and description.
05/25/2022	1.25		F' Listing file, field 57: description and notes amended
08/03/2022	1.26		F Updating file: added Note to field 2 F Listing file: added note to field 44
12/27/2022	1.27		F' Listing file: notes added to field 56

02/13/2023	1.28		F Listing file, field 14: Bermudan, Asian, and Other Option Types added
03/13/2023	1.29		F Listing File: note for field 14 added for management of the values in case this field is left empty
05/12/2023	1.30		When missing, the Option Type field is not published by the market in F' listing file

1 STATEMENT OF NON-DISCLOSURE

All the information contained in this document is proprietary and confidential, and is for the exclusive internal use of the recipient of this document.

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2 INTRODUCTION

Hi-MTF provides Issuers with:

1. An **automatic listing** service based on csv file exchange via a sftp server and authorization workflow. This enables massive operations for admission to trading, Masterfile updating, and de-listing of the Certificates in the Market. This service can be required by any Financial Institution that issues Certificates and Covered Warrants. Each Issuer requiring the service is provided with a reserved uploading / downloading area. This document describes the authorization workflow and the format of the files that can be uploaded.
2. An sftp service to enable uploading the **final terms** of the certificates that will be issued in the following day. This documents contains sftp service details.

3 SFTP SERVICE DETAILS

This section provides technical information to access to the SFTP Service.

3.1 ACCESS TO THE SERVICE

The SFTP service will be accessible via internet, BT-Radianz and SIANET.

In order to obtain the access, the clients will have to communicate to HIMTF their own source addresses.

Afterwards, HIMTF will provide username and password information to each Client, which will be required to access to the service.

The table below gives the test and production SFTP IP addresses:

SOURCE	ENVIRONMENT	IP Addresses and port
Internet	Production	194.177.126.212:222
Internet	Test/DR	62.48.50.12:222
BT Radianz	Production	75.96.199.25:222
BT Radianz	Test/DR	75.96.50.172:222
SIANET	Production	10.201.31.153:222
SIANET	Test/DR	10.200.91.196:222

3.2 AUTOMATIC LISTING

3.2.1 Service hours and cut off

The service is available starting from 00:00 to 24:00 (local market time), from Monday to Friday.

Four different cut offs are defined:

- F Listing/Update file
- F' Listing/Update file
- F Delisting/Restrike file
- F' Delisting/Restrike file

Cut-off times for File F are:

- Listing/Update file F: 14:30
- Listing/Update file F'': 18:30
- Delisting/Restrike file F: 23:02
- Delisting/Restrike file F'': 23:30

3.2.2 Service features

Once a Client connects to the SFTP site with its own credentials, it can upload and download the files depending on its role in the following folders:

Issuer

Home directory: `/sftp/home/himtf_cert/user_cert`

Sub directories:

- `/user_cert/UPLOAD` – file type: F
- `/user_cert/DOWNLOAD` – file type: F, F1, F2

Reference Data Provider

Home directory: `/sftp/home/himtf_cert/user_cert`

Sub directories:

- `/user_cert/UPLOAD` – file type: F, F2
- `/user_cert/DOWNLOAD` – file type: F1

3.3 FINAL TERMS

3.3.1 Service hours and cut off

The service is available starting from 00:00 to 24:00 (local market time), from Monday to Friday.

3.3.2 Service features

Issuers will connect to the sftp service to upload final terms documents, the username and password will be different from the ones used for the automatic listing workflow.

The folders dedicated to each issuer will be the following:

Home directory: `/sftp/home/himtf_finalterms/user_finalterms`

Each issuer must upload the final terms in its home directory.

3.3.3 Final Term files: naming convention

The Final Terms pdf files uploaded by issuers to the sftp service must be named according to the following conventions:

- The pdf file must have the same name as the csv file (F) containing the ISIN Code the pdf refers to. For example:

LISTING_<Issuer> <date><time>_F.pdf

- If there are more pdf files referring to the same csv file, then the issuer must upload all of them using the same file name plus the suffix "01", "_02" "nn". For example,

LISTING<ISSUER> <date>_<time>_F*_01*.pdf

NOTE: If the ISINs in the pdf file are in several csv files, then the issuer must repeat the same pdf file, one for each csv file.

4 AUTHORIZATION WORKFLOW

This section describes the authorization workflow. This workflow is the same for all types of files: listing, updating, and delisting and restrike.

In brief, the Issuer uploads the original F file, which is then automatically processed and enriched with the results of the controls. This enriched file is called the F' file and is available for the Issuer. Hi-MTF then approves or rejects the records in the file and adds this information to the F' file, thus generating the F'' file.

The steps of the authorization workflow are:

1. The Issuer uploads the F file in the upload area within the first cut-off time set by the market regulations. This F file must contain all the information required by the type of request. The format of the file is detailed in Section 5 - Format for csv Files.;
2. The F file is checked automatically. The format of the data, consistency with the existing master file, and the presence of mandatory information are all verified;
3. The outcomes of the verifications are added to the original F file, thus generating the new F' file. In this file, a technical semaphore (*First Semaphore* field) is assigned to each record;
4. F' file is available for the Issuer. The list of the rejected records together with the reason for rejection are also provided for the Issuer. The F' file must be approved by Hi-MTF;
5. The Issuer is emailed regarding the upload of each file;
6. Hi-MTF verifies the F' file and approves / rejects each record, thus generating the F'' file. In this file the second technical semaphore (*Second Semaphore* field) is assigned to each record. Records with Second Semaphore= No will not be imported. In the case of listing, the F'' file also contains the negotiation parameters for each tradable instrument;
7. The F'' file is uploaded onto the Issuer area with details of the final outcome of the checks;
8. The instruments are sent to the market;
9. All those instruments that are sent to the market within the second cut-off time, are available for trading on the next trading day;

5 FORMAT FOR CSV FILES

Several types of csv files can be uploaded onto Hi-MTF:

- Listing: to create new instruments in the market master file;
- Updating: to update instruments which are already in the market master file;
- Delisting: to delete instruments from the market master file;
- Restrike: to update strike price of the instruments which are already in the market master file.

Each type of file is subject to the authorization workflow detailed in Section 4 - Authorization Workflow.

The data structure and naming convention of these csv files are described in the subsections below.

NOTE: The conventions below must be always used in the csv files:

- “,” (comma) is the field separator
- “.” (period) is the decimal separator for numeric fields
- The only characters managed by the Authorization Workflow are the following:
 - Numbers from 0 to 9
 - Alphanumeric characters: uppercase letters (A to Z) and lowercase letters (a to z)
 - Spacing characters: space and tab
 - Special characters: % & ' () * + - . / : |

5.1 LISTING

The naming of the Listing file must respect the following convention:

- File F: LISTING_<Issuer>_<date>_<time>_F.csv
- File F': LISTING_<Issuer>_<date>_<time>_F1.csv
- File F'': LISTING_<Issuer>_<date>_<time>_F2.csv

Where:

- The <Issuer> is the Member ID of the issuer in the Market master file;
- The <date>_<time> field refers to the timestamp of the creation of the file and have “YYYYMMDD_hhmmss” format.

For example: LISTING_UNICREDIT_20200601_162700_F.csv

Listing files can be also used to update instruments which are already in the market master file, i.e. in the place of Updating files. In these cases, the information in the market master file will be overwritten with the information contained in the Listing file. As a consequence, all the fields in the Listing files including the not required and

conditionally required fields, must be filled in. The information in the market master file which are not contained in the Listing file will be lost.

The rows in the Listing file which refer to an update are marked by the "UPDATE" string in the FirstErrorDescription field in F' file.

NOTE 1: The file name with .csv extension is case sensitive and it must be in lower cases.

NOTE 2: During the day of import and until the cut-off time, the system will process only the files having a date earlier than or equal to the date of the import.

The tables below describe the fields in the F, F' and F'' Listing files.

Mandatory fields are in bold.

5.1.1 F Listing file

The F file is entirely filled by Issuer. The table below describes the fields in the F Listing file.

Mandatory fields are in bold.

No.	Name	Description	Format	Notes
1	Issuer	Issuer	Issuer Code provided by Hi-MTF, Max: 3 characters.	
2	ISIN Code	ISIN	Exactly 12 characters.	
3	CFI Code	CFI	Exactly 6 characters.	<p>It must have one of the following prefixes:</p> <ul style="list-style-type: none"> • DBV • DBZ • DEA • DEC • DED • DEE • DEM • DEX • DGV • DMM • DMZ • DSA • DSC • DSD • DSX • DTV • DYV

				<ul style="list-style-type: none"> • EYA • EYB • EYC • EYD • EYE • EYM • EYX • RFC • RFI • RFM • RFS • RFT • RWB • RWC • RWI • RWM • RWS • RWT • RWX
4	Underlying	Underlying	Max: 40 characters.	Multiple underlying separated by a " ", or a descriptive name of the basket
5	Type of Certificate	Type of Certificate (multiple choice)	Multiple options: <ul style="list-style-type: none"> • ESOT (0) • CALL (1) • PUT (2) • BULL (3) • BEAR (4) • LEV (5) • FIXLEV (9) • INV CP (6) • INV CCP (7) • INV NP (8) 	0, 1, 2 only for CW - 3, 4 only for Leverage Certificates Bull and Bear - 9 for Constant Leveraged Cert, 5 for Other Leverage Cert- 6, 7, 8 for the Investment Cert. Issuers will send descriptions (not numbers).
6	Underlying ISIN	ISIN code of the Underlying (or other identifier if ISIN is not available)	64 characters.	This field is mandatory if the CFI Code has one of the following prefixes: RWB, RWS, RWX. This field is also mandatory if field 48 <i>Type of Underlying</i> is "EQUI", except when the character of the CFI Code

				<p>indicating the underlying asset is on the following:</p> <ul style="list-style-type: none"> • G=Derivatives • I=Indices • M=Others (Misc.).
7	Strike	Strike	Numeric field. Max: 8 characters including max: 4 decimals.	
8	Issue date	Issue date	dd/mm/yyyy	
9	Expiry date	Expiry date	dd/mm/yyyy (Open End indicates 31/12/2099).	
10	Parity	Parity value between instrument and Underlying	Numeric field. Max: 8 characters including max 6 decimals.	<p>This field is conditionally required.</p> <p>Mandatory when field 5 = 0, 1, 2, 3, 4, 5 or 9; Multiplier = 1/Parity</p>
11	Nominal Value	Nominal Value	Numeric field. Max: 8 characters including max 6 decimals.	
12	Quantity	Outstanding amount	Numeric field. Max: 10 characters.	
13	Exercise Type	Cash or physical delivery	<p>Multiple options:</p> <ul style="list-style-type: none"> • CASH • PHYSICAL 	
14	Option Type	American, European, Bermudan, Asian, Other option exercise	<p>Multiple options:</p> <ul style="list-style-type: none"> • AMERIC • EUROP • BERMUDAN • ASIAN • OTHER 	<p>This field is conditionally required.</p> <p>Mandatory when field 5 = 0, 1, 2 (CW).</p> <p>If this field is left empty, the value will be automatically provided by the market based on the CFI Code of the instrument as follows:</p> <ul style="list-style-type: none"> • RW***A or RF***A-> AMERIC • RW***E or RF***E -> EUROP • RW***B or RF***B-> BERMUDAN • RW***M or RF***M -> OTHER
15	Exercise Lot	Exercise Lot	Numeric integer. Max: 4 characters.	
16	Marketing name	Marketing name	Max: 40 characters.	This field is conditionally required.

				Mandatory when field 49= Other
17	Price of Underlying	Price of Underlying or its initial value	Numeric field.	
18	Reference Price	Instrument Reference Price	Numeric field. Max: 8 characters including max. 4 decimals.	
19	Underlying currency	Underlying currency	ISO Currency Code	
20	Quanto	Quanto	Multiple options: <ul style="list-style-type: none"> • YES • NO 	
21	1st Barrier	Price of Underlying which triggers the barrier	Numeric field. Max: 8 characters including max. 4 decimals.	This field is conditionally required. Mandatory if field 24 is not blank
22	Barrier Observation	Type of barrier control	Multiple options: <ul style="list-style-type: none"> • O: OPEN • I: INTRADAY • C: CLOSE 	This field is conditionally required. Mandatory if field 21 is not blank
23	2nd Strike	Second Strike	Numeric field. Max: 8 characters including max. 4 decimals. It can be left blank if the data is not available.	
24	2nd Barrier	Second Barrier	Numeric field. Max: 8 characters including max. 4 decimals. It can be left blank if the data is not available.	
25	Autocallability	Autocallability	Multiple options: <ul style="list-style-type: none"> • YES • NO 	
26	Observation Autocallability	Type of autocallability control	Multiple options: <ul style="list-style-type: none"> • O: OPEN • I: INTRADAY • C: CLOSE 	This field is conditionally required. Mandatory if field 25 is Yes
27	Participation %	Participation level as a percentage	Percentage, positive values for Bullish (up); negative values for Bearish (down). Max: 4 characters. It can be left blank if the data is not available.	
28	Fee %	Fees in percentage	Percentage. Max: 4 characters. It can be left blank if the data is not available.	
29	Long/Short	Directionality for the instrument. It is	Multiple options:	

		different for non-exotic and Constant Leverage Certificates	<ul style="list-style-type: none"> • Long • Short 	
30	Bonus/Strike%	Ratio bonus/strike %	Percentage Max: 4 characters. It can be left blank if the data is not available.	
31	Cap	Cap	Numeric field. Max: 7 characters including max 4 decimals. It can be left blank if the data is not available.	
32	Floor	Floor	Numeric field. Max: 7 characters including max 4 decimals. It can be left blank if the data is not available.	
33	Coupon	Coupon	Multiple options: <ul style="list-style-type: none"> • YES • NO 	
34	Protection	Certificate Protection Level in %	Numeric percentage field. Max: 3 integers and 6 decimals.	
35	Specialist Code	Specialist Member Code	Issuer Code initially provided by Hi-MTF, max: 5 numbers.	
36	Quote Type	Specialist Quote type	Multiple options: <ul style="list-style-type: none"> • Mifid II • Voluntary Double Side • Voluntary Bid Only 	
37	RFE Activation	Activate (YES) or deactivate (NO) the use of RFE on the instrument	Multiple options <ul style="list-style-type: none"> • YES • NO 	
38	Denomination Currency	Instrument Denomination Currency	ISO currency Code	
39	Trading Currency	Instrument Trading Currency	ISO currency Code	
40	Settlement Currency	Instrument Settlement Currency	ISO currency Code	
41	Settlement System	Settlement System	Multiple options: <ul style="list-style-type: none"> • TARGET 2 SECURITIES or T2S equivalent 	

			<ul style="list-style-type: none"> EUROCLEAR CLEARSTREAM LUX or ECLR equivalent 	
42	Leverage Number	For Constant Leverage Certificates, leverage level; for example: 5 or -5	Numeric Max: 1 character	This field is conditionally required. Mandatory when field 5 = 9 (Constant Leverage Certificates)
43	Restrike %	For Constant Leverage Certificates, level of restrike event; for example: 15 or -15	Percentage. Max: 4 characters. It can be left blank if the data is not available.	This field is conditionally required. Mandatory when field 5 = 9 (Constant Leverage Certificates)
44	Final Valuation Date	Final Valuation Date	dd/mm/yyyy (Open End indicates 31/12/2099).	If the 'Final Valuation Date' is more than 3 settlement days before the 'Expiry Date', the 'Final Valuation Date' will be the 'Last Trading Date' of the instrument. If the 'Last Trading Date' coincides with a holiday in the trading calendar of the Hi-Cert segment, the 'Last Trading Date' is set equal to the previous trading day. The settlement calendar to be used is the calendar related to the settlement currency
45	Professional	For professional clients	Multiple options: <ul style="list-style-type: none"> YES NO 	
46	KID web link	Kid web link (http:\...\)	Max: 50 characters.	
47	Distribution Type	Distribution Type	Multiple options: <ul style="list-style-type: none"> Direct Listing Direct Distribution Public Offer Private Placement 	
48	Type of Underlying	Type of Underlying (and commodity indication)	Multiple options: <ul style="list-style-type: none"> COMM (Commodity) 	

			<ul style="list-style-type: none"> • CRDT (Credit) • CURR (Currency) • EQUI (Equity) • INTR (Interest rate) 	
49	ACEPI Type	ACEPI Type	<p>Multiple options:</p> <ul style="list-style-type: none"> • Bonus Protected • Digital • Equity Protection • Express Protection • Airbag • Bonus • Bonus Cap • Cash Collect • Express • Outperformance • Cond. Protected • Twin Win • Benchmark • Discount • Outperformance • Corridor • Covered Warrant • Leva Fissa • Leva Variabile • Other 	
50	FT web link	Final Terms web link (http:\\...)	Max: 50 chars	
51	ESG		50 chars	For future developments
52	Opening Time	Continuous Trading phase start time	Format hh:mm. Please refer to the Trading Guide – Hi-mtf for the complete Time Table	<p>This field is conditionally required, It is mandatory when the Close Time is set. If neither Opening Time nor Close Time are set, then the default timetable will be matched.</p> <p>If this field contains an invalid value or if it set but the Close Time is not given, the entire row will be in error and rejected.</p>

53	Close Time	Continuous Trading phase end time	Format hh:mm. Please refer to the Trading Guide – Hi-mtf for the complete Time Table	<p>This field is conditionally required, It is mandatory when the Opening Time is set. If neither Opening Time nor Close Time are set, then the default timetable will be matched.</p> <p>If this field contains an invalid value or if it set but the Opening Time is not given, the entire row will be in error and rejected.</p>
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5.1.2 F' Listing file

The table below describes the fields automatically added to F listing file when generating the F' Listing file.

Mandatory fields are in bold.

No.	Name	Description	Format	Notes
The fields below are provided automatically				
54	Instrument Name	Instrument Name on Hi-MTF	Text. Max: 64 characters.	<p>Field1 + (if field5 = 1, 2, 3, 4, 5, 9 then field5; else if field49 <> "Other" then DECODE (field49); else LEFT(field16; 9)) + (if field5=9; then field42(only number) &"x") + field29 if not blank (abbrev. LG or SH) + (if field4 <= 16 chars then field4; else if contain " " then "Multi-" + field48, else LEFT(field4; 16))) + (if field25 = SI and field5 = 6, 7, 8 then "Autocall"; else NULL) + (if field5 <= 5 or = 9; then "S"&NUMBERVALUE(field7) if (field7 not blank and field7 <> field21) and "B"&NUMBERVALUE(field21) if not blank) + (if field9 = 31/12/2099 then "Open End"; else field9)</p> <p>-> e.g.: BNP Bull Telecom B10 12/12/2020</p> <p>See also 6 - Appendix: Decode Table Note: non-significant zeros in field7 and field21 are removed</p>
55	Minimum Lot	Minimum Trading Lot	Numeric integer, max: 4 characters.	Equal to Exercise Lot, else 1

56	Start Trading Date	Start Trading Date (t+1)	dd/mm/yyyy	<p>If Start date < Issue date, then Start Date = Issue date.</p> <p>If the Start Trading Date coincides with a holiday in the trading calendar of the Hi-Cert segment, the Start Trading Date is set equal to the following trading day.</p>
57	Last Trading Date	Last trading date of the security MIN(Expiry date – 3 settlement days, Final Valuation Date (if present))	dd/mm/yyyy	<p>If the Last Trading Date coincides with a holiday in the trading calendar of the Hi-Cert segment, the Last Trading Date is set equal to the previous trading day.</p> <p>The settlement calendar to be used is the calendar related to the settlement currency.</p>
58	Size Obligation	Number of instruments to quote under obligation	Numeric integer. Max: 6 characters	Defined at trading start, and periodically reviewed
59	Threshold Profile ID	Instrument category for limit 1 and limit 2 configurations	Max: 16 characters.	
60	FTSecID	Unique identifier of the tradable security	Max: 64 chars	
61	First Semaphore	First Semaphore	<ul style="list-style-type: none"> • YES • NO 	
62	First Error Description	List of errors following the format: "<field> <error found text>[<field> <error found text>]" where [] part is optional. E.g.: 1: Missing mandatory field 2: Invalid format 5: Value not in domain	Text. The "UPDATE" string means that the row is updating an instrument already present in the market master file	

5.1.3 F' Listing file

The table below describes the fields added by Hi-MTF to the F' Listing file when generating the F' Listing file.

Mandatory fields are in bold.

No.	Name	Description	Format	Notes
The fields below are provided by Hi-MTF				
63	Multiplier	Multiplier	Numeric. Max: 8 characters, included max 6 decimals	This field is conditionally required
64	FISN	FISN Code	Text. Max: 35 characters	
65	Second Semaphore	Second Semaphore (validation on the results in F')	<ul style="list-style-type: none"> • YES • NO 	
66	Second Error Description	Error description	Free text	

5.2 UPDATING

The naming of the Updating file must respect the following convention:

- File F: UPD_<Issuer>_<date>_<time>_F.csv
- File F': UPD_<Issuer>_<date>_<time>_F1.csv
- File F'': UPD_<Issuer>_<date>_<time>_F2.csv

Where:

- The<Issuer> is the Member ID of the issuer in the Market master file;
- The <date>_<time> field refers to the timestamp of the creation of the file and have "YYYYMMDD_hhmmss" format.

For example, UPD_UNICREDIT_20200601_162700_F.csv

NOTE: During the day of import and until the cut-off time, the system will process only the files having a date earlier than or equal to the date of the import.

The tables below describe the fields in the F, F' and F'' Updating files.

Mandatory fields are in bold.

5.2.1 F Updating file

F file is entirely filled by Issuer. Set empty string for the fields that have not be managed/overwritten.

The table below describes the fields in the F Updating file.

Mandatory fields are in bold.

No.	Name	Description	Format	Note
1	Type of adjust	Type of adjustment	Multiple options: <ul style="list-style-type: none"> • U: Underlying change, only fields 5, 6 and 11 will be managed • Q: Quantity increase or decrease, only field 10 will be managed • R: RFE, only field 17 will be managed • O: Other, all the fields not managed by the other types will be managed • T: Trading hours change, only fields 19 and 20 will be managed 	If Type Of Adjustment is "U" and Underlying Isin is not null, then CFICode must be not null and vice versa.
2	Adjust Effective date	T or further	dd/mm/yyyy	Adjustments will be effective from the trading day following the 'Adjust Effective Date'.
3	Issuer	Issuer	Issuer Code provided by Hi-MTF. Max: 3 characters.	
4	Isin Code	ISIN	12 characters.	
5	Underlying	Underlying	Text. Max: 40 characters.	This field is conditionally required
6	Underlying ISIN	ISIN	64 characters.	Multiple underlyings are separated by a " ". Up to 5 ISINs are supported
7	Strike	Strike	Numeric field. Max: 8 characters including max 4 decimals.	This field is conditionally required
8	Expiry date	Expiry date	dd/mm/yyyy (Open End indicates 31/12/2099).	This field is conditionally required
9	Parity	Parity value between instrument and underlying	Numeric field. Max: 8 characters including max 6 decimals.	This field is conditionally required
10	Quantity	Quantity of instruments	Numeric field. Max: 10 characters.	This field is conditionally required

11	Underlying currency	Underlying currency	ISO currency Code	This field is conditionally required
12	1st Barrier	Price of Underlying which triggers the barrier	Numeric field. Max: 8 characters including max 4 decimals.	This field is conditionally required
13	2nd Strike	Second Strike	Numeric field. Max: 8 characters including max 4 decimals. If the data is not available, this field must be blank.	This field is conditionally required
14	2nd Barrier	Second Barrier	Numeric field Max: 8 characters including max 4 decimals. If the data is not available, this field must be blank.	This field is conditionally required
15	Cap	Cap	Max: 7 characters including max 4 decimals. If the data is not available, this field must be blank.	This field is conditionally required
16	Floor	Floor	Numeric field. Max: 7 characters including max 4 decimals. If the data is not available, this field must be blank.	This field is conditionally required
17	RFE Activation	Activate (SI) or deactivate (NO) the use of RFE on the instrument	Multiple options: <ul style="list-style-type: none"> • YES • NO 	This field is conditionally required
18	CFI Code	CFI	Exactly 6 characters.	If Type Of Adjustment is "U" and Underlying Isin is not null, then CFICode must be not null and vice versa.
19	Opening Time	Continuous Trading phase start time	Format hh:mm. Please refer to the Trading Guide – Hi-mtf for the complete Time Table	This field is mandatory when Type of Adjustment = T
20	Close Time	Continuous Trading phase end time	Format hh:mm. Please refer to the Trading Guide – Hi-mtf for the complete Time Table	This field is mandatory when Type of Adjustment = T

5.2.2 F' Updating file

The table below describes the fields automatically added to the F Updating file when generating the F' Updating file.

Mandatory fields are in bold.

No.	Name	Description	Format
The fields below are provided by the automatic procedure			

21	First Semaphore	First Semaphore	<ul style="list-style-type: none"> • YES • NO
22	First Error Description	List of errors following the format: "<field> <error found text>[<field> <error found text>]" where [] part is optional. For example, 1 Missing mandatory field 2 Invalid format 5 Value not in domain	Text

5.2.3 F' Updating file

The table below describes the fields added by Hi-MTF to F' Updating file when generating the F'' Updating file.

Mandatory fields are in bold.

No.	Name	Description	Format
The fields below are provided by Hi-MTF			
23	Second Semaphore	Second Semaphore (validation of the results in F')	<ul style="list-style-type: none"> • YES • NO
24	Second Error Description	Error description	Free text

5.3 DELISTING/RESTRIKE

The naming of the Delisting / Restrike file must respect the following convention:

- File F: DESTR_<Issuer>_<date>_<time>_F.csv
- File F': DESTR_<Issuer>_<date>_<time>_F1.csv
- File F'': DESTR_<Issuer>_<date>_<time>_F2.csv

Where:

- The <Issuer> is the Member ID of the issuer in the Market master file;
- The <date>_<time> field refers to the timestamp of the creation of the file and have "YYYYMMDD_hhmmss" format.

For example, DESTR_UNICREDIT_20200601_162700_F.csv

NOTE 1: During the day of import and until the cut-off time, the system will process only the files having a date earlier than or equal to the date of the import.

NOTE 2: Delisting / Restrike can only impact instruments which are negotiated. If the instrument is not negotiated, the Delisting / Restrike will be refused.

The tables below describe the fields in the F, F' and F'' Delisting/Restrike files.

Mandatory fields are in bold.

5.3.1 F Delisting / Restrike file

The F file is entirely filled by Issuer.

The table below describes the fields in the F Delisting/Restrike file.

Mandatory fields are in bold.

No.	Field	Description	Field	Notes
1	Event	Type of Event	Multiple options: <ul style="list-style-type: none"> D: Delisting R: Restrike 	
2	Date	Event Date	dd/mm/yyyy	
3	Hour	Event Hour	hh:mm:ss	
4	Issuer	Issuer	Issuer Code provided by Hi-MTF. Max: 3 characters.	
5	ISIN	ISIN	12 characters	
6	Long/Short	Long/ Short	Multiple options: <ul style="list-style-type: none"> Long Short 	
7	Underlying	Underlying	Text. Max: 40 characters.	
8	Barrier	Barrier	Numeric field. Max: 8 characters including max 4 decimals	This field is conditionally required. It is mandatory in case of delisting (1=D)
9	Strike/Underlying Value	Re-strike Value if re-strike, or Value of the underlying at the Event if Delisting	Numeric field Max: 8 characters including max 4 decimals	This field is conditionally required. It is mandatory in case of restrike (1=R)

5.3.2 F' Delisting / Restrike file

The table below describes the fields automatically added to F Delisting/Restrike file when generating the F' Delisting/Restrike file.

Mandatory fields are in bold.

No.	Field	Description	Format	Notes
The fields below are provided automatically				
10	First Semaphore	First Semaphore	<ul style="list-style-type: none"> • YES • NO 	
11	First Error Description	List of errors following the format: "<field> <error found text>[<field> <error found text>]" where [] part is optional. E.g.: 1 Missing mandatory field 2 Invalid format 5 Value not in domain	Text.	

5.3.3 F' Delisting / Restrike file

The table below describes the fields added by Hi-MTF to the F' Delisting / Restrike file when generating the F' Delisting / Restrike file.

Mandatory fields are in bold face.

No.	Field	Description	Format	Notes
The fields below are provided by Hi-MTF				
12	Last Trading Date	New Last Trading Date for Delisting	dd/mm/yyyy	Managed only when 1=D This field is conditionally required
13	Notice	The Notice has been published on Hi-MTF website	<ul style="list-style-type: none"> • YES • NO 	Valid as semaphore
14	Second Error Description	Error description	Free text	

6 APPENDIX: DECODE TABLE

The table below shows the mapping between values of the field49 and the corresponding short values that must be used for the definition of the Instrument Name in field51 in the F' Listing file, see section 5.1.2 - F' Listing file.

field49	DECODE
Bonus Protected	BonusPr
Digital	Digital
Equity Protection	EquityPr
Express Protection	ExpressPr
Airbag	Airbag
Bonus	Bonus
Bonus Cap	Bonus Cap
Cash Collect	Cash Coll
Express	Express
Outperformance Cond. Protected	OutperCPr
Twin Win	Twin Win
Benchmark	Benchmark
Discount	Discount
Outperformance	Outper
Corridor	Corridor
Covered Warrant	Covered W
Leva Fissa	Leva Fiss
Leva Variabile	Leva Vari



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