

target | T2S services

Data Migration Tool

File Format Specification

Author	4CB
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1 History of releases

Release	Date	Issues	Status [1]
0.0.1	27/06/2012	First draft	draft
0.0.2	11/09/2012	Second draft	draft
0.0.3	15/10/2012	Remarks from first review by FES, FIT considered	draft
1.0.0	12/11/2012 03/12/2012	Remarks from second review considered Remarks from FIT considered	final
1.0.1	18/12/2012	MSG: swapped chapter 2 and 3	final
1.0.2	11/02/2013	Market feedback	
1.0.3	08/03/2013	Back end interface alignment	
1.0.4	18/10/2013	Final version	
1.2	29/04/2014	CR385, CR386, CR453 and CR454	
1.2.1	19/01/2015	CR460	
1.2.2	30/01/2015	CR for DMT documentation alignment	
1.2.3	12/03/2015	CRG meeting of 12 March 2015 where it was agreed to clarify the description of the values to define positive/negative of a restriction type	
1.2.4	02/06/2015	Update of the rules for cash payment-related fields	
1.2.5	02/03/2016	CR495 – CR513 – CR575 – CR599	
1.2.6	30/03/2016	CR583 issue 10 (PBI-158158)	
1.2.7	07/10/2016	Changes due to CR-593, CR-534 & CR-576	
1.2.8	25/07/2017	Changes due to CR-645, CR-648	
1.2.9	30/05/2018	Changes due to CR-607	
1.2.10	04/02/2019	Changes due to CR-606	
1.2.11	28/02/2020	Changes due to CR-658, CR-671 & CR-724	
1.2.12	07/08/2020	Changes due to CR-713, CR-718 & CR-728	
1.2.13	05/03/2021	Changes due to CR-744	
R2023.JUN	10/02/2023	Changes due to CR-638, CR-795	
R2023.NOV	22/09/2023	No changes	
R2024.NOV	20/09/2024	Changes due to CR-833	
R2026.JUN	22/01/2026	Changes due to CR-863	
R2026.NOV	11/09/2026	Changes due to CR-874	

Approval and agreement workflow

	Team Level		Area Level		Project Level		Agreement	
Release	Approver	Date	Approver	Date	Approver	Date	Approver	Date

Quality Control

	Quality Control – Domestic Level				Quality Control – PMO Level			
Release	Degree	Checker	Date	Report	Degree	Checker	Date	Report

Applicable documents

Reference		Object
1	[UDFS]	4CB: T2S User Detailed Functional Specifications, V2.1, 02/12/2015

Reference documents

Reference		Object
1	[DMT Specification]	ECB : Data Migration Tool Requirements and Related Procedures, V1.2.1, 20/01/2015
Owner domain		Operational Services
Owner module		Data Migration Module

Footnotes

¹ Status value: Draft, Open, Final, Dismiss

2 Introduction

Prior to their going-live the Data Migration Tool (DMT) offers CSDs and NCBs the opportunity to load bulk static and dynamic data into T2S. The data is located in Excel or in flat files that are created by the user and submitted to T2S via a web application. The Excel files are used by a human being that manually transfers the data into the spreadsheet whereas the flat files are used by a legacy application that automatically exports the data into the file.

This document specifies the details of the format of the Excel and flat files for T2S data migration. Excel and flat files are available for all interfaces in the same manner. It is not a user handbook that describes the interaction of the users with DMT.

3 Technical Specification

3.1 Data Record Definition

This chapter refers to Excel and the flat file in the same manner.

3.1.1 Rows and Columns

A spreadsheet consists of horizontal rows and vertical columns. The columns identify the attributes and are restricted to a specific data type. There is no mixup of different attributes and data types in one column.

3.1.2 Header

The names of the columns appear in the first row. The names support the user to fill out the form but have no further functionality. DMT identifies the attributes based on the location of the column and does not interpret the column names.

3.1.3 Records

A record is a data structure that contains all parameters for a certain business function. A record spans over several rows. This is due to the fact that a record may contain attributes that are repeatable. The repeated attributes are placed in a separate row just below the initial row in the same column.

3.1.4 Record Type

The record type describes the business function of the record. A file may contain several records of the same record type. A mixture of different record types in one file is not possible.

The record type is indicated with a key word in the upper left corner of the file. Since there is only one record type per file the indication occurs only once. For example:

Record Type	Record Id	An Attribute
Party	1	aaa
	2	bbb

3.1.5 Record Identification

A record is identified with a unique record identifier. The identifier must be unique within the file. It is recommended that the record identifier starts with 1 and is consecutively numbered.

In case the record contains repeatable attributes and spans over several rows the record identifier is repeated in each row of the record. Rows with the same record identifier are located one after the other. These connected rows must not be interrupted by rows with another record identifier. For example:

Record Type	Record Id	A repeatable Attribute	A non-repeatable Attribute
Party	1	a1	c1
	1	b1	
	2	a2	c2
	2	b2	

3.1.6 Default Values

Default values are not used. When a field has no value the Excel field remains empty. For example:

aaa		ccc
-----	--	-----

In a flat file the length of a field with no value is 0. For example:

aaa,,ccc

DMT does not provide default values for empty fields. Any input parameter must be stated within the files.

3.2 Further Details

3.2.1 Format Types

The values appear in the format as in the table below:

Format Type	Excel	CSV ^[1]
DATE	The format depends on the country and location of the user.	The format is « dd/mm/yyyy » with no timezone indication. Example: "30/06/2015"
TIME	The format depends on the country and location of the user.	The format is « hh:mm:ss » with no timezone indication. Times are in 24 hour format. Example: "15:30:59"
CHAR (n)	String with exactly n characters.	Same format as Excel.
VARCHAR (n)	String with n characters maximum.	Same format as Excel.
DEC (p,s)	Floating-point number with maximum p integer places and s decimal places. A dot '.' is used as decimal separator. Due to Excel restriction, cell must be treated as text	Floating-point number with maximum p integer places and s decimal places. A dot '.' is used as decimal separator.
NUMERIC (p)	Number with maximum p integer places and no decimal places.	Same format as Excel.
BOOLEAN	Possible values: true false	Same format as Excel.

Footnotes

¹ The CSV format matches to the Excel format when the regional settings of a Windows PC are „English (Great Britain)“

3.2.2 ISO 15022 Interoperability

In order to ensure the interoperability to the ISO 15022 standard the character set of all fields is restricted to the SWIFT X Character Set (see below).

Exceptions might occur if special chars are required. Character set restrictions will not apply on these fields which are not used in ISO15022 messages (e.g. Distinguish Name in Party Technical Address for Party) and will not hamper interoperability.

Exceptions are highlighted in the definition of the related fields.

Some fields are restricted in length. The number of characters and integer places is shorter than in ISO 20022. See [UDFS], chapter 2.2.4, for details.

3.2.3 Timezones

Timezones do to appear in the data. The timezone is considered the actual timezone of Frankfurt. This is either **CET** (GMT+01:00) or, when a daylight saving hour is applied, **CEST** (GMT+02:00).

3.2.4 Character Set

All characters belong to the **SWIFT X Character Set**. The character set is as follows:

```
a b c d e f g h i j k l m n o p q r s t u v w x y z
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
0 1 2 3 4 5 6 7 8 9
/ - ? : ( ) . , ' +
CR LF Space
```

3.2.5 Filenames

Any filename is permitted.

Remark:

The filenames of the provided examples contain the record type, e.g. "DMT.SDMG.Party.100". This helps the user to identify the respective example but is not required by DMT. DMT only examines the file content to recognize the record type (see chapter 2.1.4 for details).

3.3 Technical Specification of the Excel File

3.3.1 Excel Version

The Excel files adhere to one single distinct version of Microsoft Office.

Comment [A1]: CR645

Detailed information:

- | Version: Microsoft® Office Excel® 2007
- | File Extension: .xlsx

3.3.2 Restrictions

3.3.2.1 Worksheets

The option that one Excel file may contain several worksheets is not supported. DMT uses only the very first worksheet.

3.3.2.2 Number of Rows

Due to technical limitations the number of rows is restricted.

Detailed information:

- | Maximum number of rows: 50.000^[1]

Footnotes

¹ This number might be further optimised

3.3.2.3 Size Limits

In addition to the number of rows, the uploaded file can not exceed 9 MB.

3.4 Technical Specification of the Flat File

3.4.1 Compliancy to RFC 4180

The flat file has a CSV format that follows closely RFC 4180. The RFC specifies a format that is widely used by many implementations and eases the development of an unload process.

Detailed information:

I File Extension: csv

3.4.2 Definition of the CSV Format (RFC 4180)

1. Each row is located on a separate line, delimited by a line break (CRLF).
For example:
aaa,bbb,ccc CRLF
zzz,yyy,xxx CRLF
2. The last row in the file has no ending line break.
For example:
aaa,bbb,ccc CRLF
zzz,yyy,xxx
3. Within each row, there are one or more fields, separated by commas. Each row contains the same number of fields throughout the file. Spaces are considered part of a field and are not ignored. The last field in the record is not followed by a comma.
For example:
aaa,bbb,ccc
4. Each field may or may not be enclosed in double quotes. If fields are not enclosed with double quotes, then double quotes do not appear inside the fields.
For example:
aaa,"bbb","ccc" CRLF
zzz,yyy,"xxx"
5. Fields containing line breaks (CRLF), double quotes, and commas are enclosed in double-quotes.
For example:
aaa,"b CRLF bb",ccc CRLF
zzz,yyy,xxx
6. A double-quote appearing inside a field is escaped by preceding it with another double quote^[1].
For example:
"aaa","b""bb","ccc"

The escaping with double-quotes ensures that all data can appear. Quotes, commas and line breaks may be included into the business data.

Footnotes

- 1 Actually character « quote » is not allowed. See chapter [Character Set](#) for details. Please note that the CSV format definition is independent from the character set.

3.4.3 Control Characters

In order to structure the data in the flat file the following control characters are used:

Carriage Return (CR)	0x0d
Line Feed (LF)	0x0a

3.4.4 Encoding

The encoding of the flat file is UTF-8 with no Byte Order Mark (BOM).

3.4.5 Restrictions

3.4.5.1 Number of Rows

Due to technical limitations the number of rows is restricted.

Detailed information:

- Maximum number of rows: 50.000^[2]

Footnotes

¹ This number might be further optimised

3.4.5.2 Size Limits

In addition to the number of rows, the uploaded file can not exceed 9 MB.

4 Format of Structured Files

4.1 Format of Excel and Flat Files

See chapter [Further Details](#) for the specification and details of the format types.

4.1.1 Technical Prerequisites

4.1.1.1 Record Type Identifier

Prior to the static and dynamic data appears the record type identifier.

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per File
1	A	Record Type	VARCHAR (50)	Indicates the business function. The required value can be found in the first line of the chapters 3.1.2.1 - 3.1.3.1.	Occurs in the 2 nd row only.	1..1

4.1.2 Dynamic Data

4.1.2.1 Free of Payment Settlement Instruction

I Record Type: "FOP"

The record is used to create a free of payment settlement instruction.

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
2	B	Record Id	NUMERIC (10)	Unique identifier of the record.		1..1
3	C	Instructing Party Parent BIC	VARCHAR (11)			1..1
4	D	Instructing Party BIC	VARCHAR (11)			1..1
5	E	T2S Actor Instruction Reference	VARCHAR (16) RestrictedFINMax16Text_T2S_1	Transaction identification.		1..1
6	F	Securities Movement Type Code	Possible values: DELI RECE	DELI = Delivery RECE = Receive		1..1
7	G	Payment Type Code	Possible value: FREE	FREE = FoP instruction		1..1
8	H	Trade Date	DATE		Must be equal or earlier than the Intended Settlement Date	1..1
9	I	Intended Settlement Date	DATE	Go-live date		1..1
10	J	Already matched instruction	Possible values: MACH NMAT	MACH = Already matched instruction NMAT = Unmatched instruction		1..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
11	K	Common Reference	VARCHAR (16) RestrictedFINMax16Text_T2S_1			1..1
12	L	ISIN	CHAR(12)			1..1
13	M	Settlement Type	Possible values: UNIT FAMT	Type of quantity: UNIT = Unit FAMT = Face Amount		1..1
14	N	Settlement Quantity	DEC (14,14)* when Settlement Type is 'UNIT' DEC (14,5)* when Settlement Type is 'FAMT'			1..1
15	O	Securities Account Number	VARCHAR (35)	Safekeeping account.		1..1
16	P	ISO Transaction Code	Possible values: AUTO BSBK BYIY CLAI CNCB COLI COLO	Securities transaction type: AUTO = Auto Collateralisation BYIY = BuyIn BSBK = Buy Sell Back CLAI = Market Claim CNCB = Central Bank Collateral Operation COLI = Collateral In		1..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
			CONV	COLO = Collateral Out		
			CORP	CONV = Depository Receipt Conversion		
			ETFT	CORP = Corporate Action		
			FCTA	ETFT = Exchange Traded Funds		
			INSP	FCTA = Factor Update		
			ISSU	INSP = Move of Stock		
			MKDW	ISSU = Issuance		
			MKUP	MKDW = Mark Down		
			NETT	MKUP = Mark Up		
			NSYN	NETT = Netting		
			OWNE	NSYN = Non Syndicated		
			OWNI	OWNE = External Account Transfer		
			PAIR	OWNI = Internal Account Transfer		
			PLAC	PAIR = Pair Off		
			PORT	PLAC = Placement		
			REAL	PORT = Portfolio Move		
			REDI	REAL = Realignment		
			REDM	REDI = Withdrawal		
			RELE	REDM = Redemption		
			REPU			
			RODE			
			RVPO			
			SBBK			

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
			- SBRE - SECB - SECL - SLRE - SUBS - SWIF - SWIT - SYND - TBAC - TRAD - TRPO - TRVO - TURN	- RELE = Depository Receipt Release Cancellation - REPU = Repo - RODE = Return Delivery without Matching - RVPO = Reverse Repurchase Agreement - SBBK = Sell Buy Back - SBRE = Borrowing Reallocation - SECB = Securities Borrowing - SECL = Securities Lending - SLRE = Lending Reallocation - SUBS = Subscription - SWIF = Switch From - SWIT = Switch To - SYND = Syndicate Underwriters - TBAC = TBA Closing - TRAD = Trade - TRPO = Triparty Repo - TRVO = Triparty Reverse Repo - TURN = Turnaround		

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
17	Q	Receiving Depository BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'DELI'.	0..1
18	R	T2S Receiving Party BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'DELI'.	0..1
19	S	T2S Receiving Party Securities Account	VARCHAR (35)		Must occur when when Securities Movement Type Code is 'DELI' and Already matched instruction is 'MACH'.	0..1
20	T	Delivering Depository BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'RECE'.	0..1
21	U	T2S Delivering Party BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'RECE'.	0..1
22	V	T2S Delivering Party Securities Account	VARCHAR (35)		Must occur when Securities Movement Type Code is 'RECE' and Already matched instruction is 'MACH'.	0..1
23	W	Delivering Securities Sub-Balance Type Id	CHAR(4)	Set up an earmarked position.	Can only be filled in if Securities Movement Type Code is 'DELI' or if the settlement instruction is sent already matched	0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record
24	X	Delivering Securities Sub-Balance Type Issuer	Possible value: T2S		Must be present if Delivering Securities Sub-Balance Type Id is present.	0..1
25	Y	Delivering Securities Sub-Balance Type Scheme Name	Possible value: RT	RT = Restriction Type	Must be present if Delivering Securities Sub-Balance Type Id is present.	0..1
26	Z	Receiving Securities Sub-Balance Type Id	CHAR(4)	Set up an earmarked position.	Can only be filled in if Securities Movement Type Code is 'RECE' or if the instruction is sent as already matched	0..1
27	AA	Receiving Securities Sub-Balance Type Issuer	Possible value: T2S		Must be present if Receiving Securities Sub-Balance Type Id is present.	0..1
28	AB	Receiving Securities Sub-Balance Type Scheme Name	Possible value: RT	RT = Restriction Type	Must be present if Receiving Securities Sub-Balance Type Id is present	0..1

RestrictedFINMax16Text_T2S_1 :

| Pattern: [0-9a-zA-Z\-\:\;\(\)\.,\'+]/?([0-9a-zA-Z\-\:\;\(\)\.,\'+]/?)*[0-9a-zA-Z\-\:\;\(\)\.,\'+]+)?

4.1.2.2 Settlement Restriction

I Record Type: "Settlement Restriction"

The record is used to create a settlement restriction.

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
2	B	Record Id	NUMERIC (10)	Unique identifier of the record.		1..1	
3	C	Instructing Party Parent BIC	VARCHAR (11)			1..1	
4	D	Instructing Party BIC	VARCHAR (11)			1..1	
5	E	T2S Actor Instruction Reference	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Transaction identification.		1..1	
6	F	Intended Settlement Date	DATE			1..1	
7	G	Priority	Possible values: 0001 0003 0004	Values for priority: 0001 = Reserved 0003 = High 0004 = Normal		0..1	
8	H	Securities Account Number	VARCHAR (35)			1..1	
9	I	ISIN	CHAR(12)			1..1	
10	J	Settlement Type	Possible values: UNIT FAMT	Type of quantity: UNIT = Unit FAMT = Face Amount		1..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
11	K	Settlement Quantity	DEC (14,14)* when Settlement Type is 'UNIT' DEC (14,5)* when Settlement Type is 'FAMT'			1..1	
12	L	Corporate Action Event id	VARCHAR(16) – RestrictedFINMax16Text_T2S_1			0..1	
13	M	Balance From	CHAR(4)	AWAS to indicate movement FROM "Deliverable" position		1..1	
14	N	Balance To	CHAR(4)	AWAS to indicate movement TO "Deliverable" position		1..1	
15	O	Restriction Reference Id	VARCHAR(30)	Restriction Reference as assigned by T2S during the setup of a restriction		0..1	
16	P	Link Instruction Counter	NUMERIC(3)	Number of instructions that are included in the pool, if the instruction belongs to a pool.	Mandatory if the instruction belongs to a pool.	0..1	
Group "Linkage"						0..100	
17	Q	Link Processing Position	Possible values:	Type of linkage			0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			- AFTE - BEFO - INFO - WITH				
18	R	Securities Settlement Transaction id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Settlement Instruction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
19	S	Intra Position Movement Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Securities Settlement Restriction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
20	T	Intra Balance Movement Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Cash Settlement Restriction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
21	U	Account Servicer Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the instructions provided by the Account Servicer	Only one reference must be provided per occurrence of linkages block.		0..1
22	V	Market Infrastructure Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	T2S reference of the instruction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
23	W	Pool Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Pool Identification to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
24	X	Other Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the instruction provided by a Third Party	Only one reference must be provided per occurrence of linkages block.		0..1
25	Y	Reference Owner BIC	VARCHAR (11)	BIC of the reference's owner	Must occur when one of the following fields is present: - Securities Settlement Transaction Id - IntraPositionMovement Id - IntraBalanceMovement Id - AccountServicer Transaction Id - Pool Id - Other Transaction Id		0..1

RestrictedFINMax16Text_T2S_1:

| Pattern: [0-9a-zA-Z\-\:\(\)\.,\'+](/?(/[0-9a-zA-Z\-\:\(\)\.,\'+]/?)*[0-9a-zA-Z\-\:\(\)\.,\'+])?

4.1.2.3 Pending Instruction

I Record Type: "Pending Instruction"

The record is used to create a pending instruction.

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
2	B	Record Id	NUMERIC (10)	Unique identifier of the record.		1..1	
3	C	Instructing Party Parent BIC	VARCHAR (11)			1..1	
4	D	Instructing Party BIC	VARCHAR (11)			1..1	
5	E	T2S Actor Instruction Reference	VARCHAR (16) RestrictedFINMax16Text_T2S_1	Transaction identification.		1..1	
6	F	Securities Movement Type Code	Possible values: DELI RECE	DELI = Delivery RECE = Receive		1..1	
7	G	Payment Type Code	Possible value: FREE APMT	FREE = FoP instruction APMT = Against Payment		1..1	
8	H	Trade Date	DATE		Must be equal or earlier than the Intended Settlement Date	1..1	
9	I	Intended Settlement Date	DATE			1..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
10	J	Already matched instruction	Possible values: MACH NMAT	MACH = Already matched instruction NMAT = Unmatched instruction		0..1	
11	K	Common Reference	VARCHAR (16) RestrictedFINMax16Text_T2S_1			0..1	
12	L	ISIN	CHAR(12)			1..1	
13	M	Settlement Type	Possible values: UNIT FAMT	Type of quantity: UNIT = Unit FAMT = Face Amount		1..1	
14	N	Settlement Quantity	DEC (14,14)* when Settlement Type is 'UNIT' DEC (14,5)* when Settlement Type is 'FAMT'			1..1	
15	O	Securities Account Number	VARCHAR (35)	Safekeeping account.		1..1	
16	P	ISO Transaction Code	Possible values: AUTO BSBK BYIY	Securities transaction type:		1..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			- CLAI - CNCB - COLI - COLO - CONV - CORP - FCTA - INSP - ISSU - MKDW - MKUP - NETT - NSYN - OWNE - OWNI - PAIR - PLAC - PORT - REAL - REDI - REDM - RELE - REPU	- AUTO = Auto Collateralisation - BSBK = Buy Sell Back - BYIY = BuyIn - CLAI = Market Claim - CNCB = Central Bank Collateral Operation - COLI = Collateral In - COLO = Collateral Out - CONV = Depository Receipt Conversion - CORP = Corporate Action - FCTA = Factor Update - INSP = Move of Stock - ISSU = Issuance - MKDW = Mark Down - MKUP = Mark Up - NETT = Netting - NSYN = Non Syndicated - OWNE = External Account Transfer - OWNI = Internal Account Transfer - PAIR = Pair Off			

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			RODE	PLAC = Placement			
			RPTO	PORT = Portfolio Move			
			RVPO	REAL = Realignment			
			SBBK	REDI = Withdrawal			
			SBRE	REDM = Redemption			
			SECB	RELE = Depository			
			SECL	Receipt Release			
			SLRE	Cancellation			
			SUBS	REPU = Repo			
			SWIF	RODE = Return Delivery			
			SWIT	without Matching			
			SYND	RPTO = Reporting			
			TBAC	RVPO = Reverse			
			TRAD	Repurchase Agreement			
			TRPO	SBBK = Sell Buy Back			
			TRVO	SBRE = Borrowing			
			TURN	Reallocation			
				SECB = Securities			
				Borrowing			
				SECL = Securities Lending			
				SLRE = Lending			
				Reallocation			
				SUBS = Subscription			
				SWIF = Switch From			
				SWIT = Switch To			

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
				- SYND = Syndicate Underwriters - TBAC = TBA Closing - TRAD = Trade - TRPO = Triparty Repo - TRVO = Triparty Reverse Repo - TURN = Turnaround			
17	Q	Receiving Depository BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'DELI'. Must occur when T2S Receiving Party BIC is included	0..1	
18	R	T2S Receiving Party BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'DELI'. Must be present if Receiving CSD Participant's Client BIC is present.	0..1	
19	S	T2S Receiving Party Securities Account	VARCHAR (35)		Must occur when Securities Movement Type Code is 'DELI' and Already matched instruction is 'MACH'.	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
20	T	Delivering Depository BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'RECE'. Must occur when T2S Delivering Party BIC is included	0..1	
21	U	T2S Delivering Party BIC	VARCHAR (11)		Must occur when Securities Movement Type Code is 'RECE'. Must be present if Delivering CSD Participant's Client BIC is present.	0..1	
22	V	T2S Delivering Party Securities Account	VARCHAR (35)		Must occur when Securities Movement Type Code is 'RECE' and Already matched instruction is 'MACH'.	0..1	
23	W	Delivering Securities Sub-Balance Type Id	CHAR(4)	Set up an earmarked position.	Can only be filled in if Securities Movement Type Code is 'DELI' or it is sent already matched	0..1	
24	X	Delivering Securities Sub-Balance Type Issuer	Possible value: T2S		Must be present if Delivering Securities Sub-Balance Type Id is present.	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
25	Y	Delivering Securities Sub-Balance Type Scheme Name	Possible value: RT	RT = Restriction Type	Must be present if Delivering Securities Sub-Balance Type Id is present.	0..1	
26	Z	Receiving Securities Sub-Balance Type Id	CHAR(4)	Set up an earmarked position.	Can only be filled in if Securities Movement Type Code is 'RECE' or it is sent already matched	0..1	
27	AA	Receiving Securities Sub-Balance Type Issuer	Possible value: T2S		Must be present if Receiving Securities Sub-Balance Type Id is present.	0..1	
28	AB	Receiving Securities Sub-Balance Type Scheme Name	Possible value: RT	RT = Restriction Type	Must be present if Receiving Securities Sub-Balance Type Id is present.	0..1	
29	AC	Corporate Action Event id	VARCHAR(16) – RestrictedFINMax16Text_T2S_1	For migrating pending instructions with ISD in the past, this field has to be filled in with the special migration codeword.		0..1	
30	AD	Cash Account	VARCHAR(34)		Must be present if "Debtor Dedicated Cash Account Number" is present and Credit/Debit Indicator is 'DBIT'	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
					Must be present if "Creditor Dedicated Cash Account Number" is present and Credit/Debit Indicator is 'CRDT'		
31	AE	Hold Indicator	BOOLEAN Possible values: - true - false	Possible values: 'true': For unmatched instructions, the instruction is set on hold For already matched instructions, at least one of the legs of the transaction is set on hold depending on the Hold Status Type. 'false': For unmatched instructions, no hold applies in settlement instruction. For already matched instructions, no hold applies in any leg of the transaction. - If not specified, SAC's default value is applied.	- If the hold indicator is set to true, at least one occurrence of Hold Status Type must be present. - If the hold indicator is set to false or empty, the Hold Status Types column must not be present.	0..1	
32	AF	Priority	Possible values:	Values for priority:		0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			0001 0003 0004	0001 = Reserved 0003 = High 0004 = Normal			
33	AG	Partial Indicator	Possible values: - NPAR - PARC - PARQ - PART	Threshold type and type of partial settlement: - NPAR = PartialNotAllowed - PARC = PartialSettlementCashThresholdAllowed - PARQ = PartialSettlementQuantityThresholdAllowed - PART = PartialAllowed		0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
34	AH	Modification/Cancellation allowed	Possible values: TRUE FALSE BOTH NONE	Description of values : - TRUE = only the instructed leg can be modified / cancelled - FALSE = - In Already Matched SIs, the instructed leg cannot be modified / cancelled, but the T2S generated counter-leg can - In Unmatched SIs, the instructed leg cannot be modified / cancelled - BOTH = both legs can be modified / cancelled - NONE = neither the instructed nor the T2S generated leg can be modified / cancelled	- For an unmatched settlement instruction only the following codes for the Modification Cancellation Allowed are allowed: - TRUE - FALSE - If any value is specified: - In Already Matched SIs default value is BOTH - In Unmatched SIs default value is TRUE	0..1	
35	AI	Delivering CSD Participant's Client BIC	VARCHAR(11)		Must be present if Delivering Party 3 BIC is present	0..1	
36	AJ	Delivering Party 3 BIC	VARCHAR(11)		Must be present if Delivering Party 4 BIC is present	0..1	
37	AK	Delivering Party 4 BIC	VARCHAR(11)			0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
38	AL	Receiving CSD Participant's Client BIC	VARCHAR(11)		Must be present if Receiving Party 3 BIC is present	0..1	
39	AM	Receiving Party 3 BIC	VARCHAR(11)		Must be present if Receiving Party 4 BIC is present	0..1	
40	AN	Receiving Party 4 BIC	VARCHAR(11)			0..1	
41	AO	Debtor Party BIC	VARCHAR(11)			0..1	
42	AP	Debtor Dedicated Cash Account Number	VARCHAR(34)			0..1	
43	AQ	Creditor Party BIC	VARCHAR(11)			0..1	
44	AR	Creditor Dedicated Cash Account Number	VARCHAR(34)			0..1	
45	AS	Settlement Amount	DEC(14,5)		Must occur when Payment Type Code is 'APMT'	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
					<i>“For the triplet currency – credit/debit code - Settlement amount, all of them are optional for FOP instructions. However as soon as one of them is filled in, the other two become mandatory. (I.e. In case of payment Type Code is ‘FREE’, the field ‘Settlement Amount’ is optional, but if it is filled in, the fields ‘Currency’ and ‘Credit/Debit Indicator’ must be informed too. Therefore, in case any of the three APMT related fields is filled in, the three of them must be filled in together)”</i>		
46	AT	Currency	CHAR(3)		Must occur when Payment Type Code is ‘APMT’	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
					<i>“For the triplet currency – credit/debit code - Settlement amount, all of them are optional for FOP instructions. However as soon as one of them is filled in, the other two become mandatory. (I.e. In case of payment Type Code is ‘FREE’, the field ‘Settlement Amount’ is optional, but if it is filled in, the fields ‘Currency’ and ‘Credit/Debit Indicator’ must be informed too. Therefore, in case any of the three APMT related fields is filled in, the three of them must be filled in together)”</i>		
47	AU	Credit/Debit Indicator	Possible values: CRDT DBIT	Credit/Debit code: CRDT = Credit DBIT = Debit	Must occur when Payment Type Code is ‘APMT’	0..1	

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
					<i>“For the triplet currency – credit/debit code - Settlement amount, all of them are optional for FOP instructions. However as soon as one of them is filled in, the other two become mandatory. (I.e. In case of payment Type Code is ‘FREE’, the field ‘Settlement Amount’ is optional, but if it is filled in, the fields ‘Currency’ and ‘Credit/Debit Indicator’ must be informed too. Therefore, in case any of the three APMT related fields is filled in, the three of them must be filled in together)”</i>		
48	AV	Link Instruction Counter	NUMERIC (3)		Mandatory if the instruction belongs to a pool.	0..1	
Group “Linkage”						0..100	
49	AW	Link Processing Position	Possible values:	Type of linkage			0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			- AFTE - BEFO - INFO - WITH				
50	AX	Securities Settlement Transaction id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Settlement Instruction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
51	AY	Intra Position Movement Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Securities Settlement Restriction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
52	AZ	Intra Balance Movement Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the Cash Settlement Restriction to be linked			0..1
53	BA	Account Servicer Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the instructions provided by the Account Servicer	Only one reference must be provided per occurrence of linkages block.		0..1
54	BB	Market Infrastructure Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	T2S reference of the instruction to be linked	Only one reference must be provided per occurrence of linkages block.		0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
55	BC	Pool Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Pool Identification to be linked	Only one reference must be provided per occurrence of linkages block.		0..1
56	BD	Other Transaction Id	VARCHAR (16) – RestrictedFINMax16Text_T2S_1	Reference of the instruction provided by a Third Party	Only one reference must be provided per occurrence of linkages block.		0..1
57	BE	Reference Owner BIC	VARCHAR (11)	BIC of the reference's owner	Must occur when one of the following fields is present: - Securities Settlement Transaction Id - IntraPositionMovement Id - IntraBalanceMovement Id - AccountServicer Transaction Id - Pool Id - Other Transaction Id		0..1
Group "Trade Transaction Condition"						0..1	
58	BF	Trade Transaction Condition Code	Possible values: - BCBL - BCBN - BCFD - BCPD	Trade Transaction Code: - BCBL = BoardLot - BCBN = BadName - BCFD = DeliveryForm			1..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			- BCRO - BCRP - CBNS - CCPN - CDIV - CRTS - CWAR - GTDL - MAPR - NEGO - NMPR - SPCU - SPEX - XBNS - XCPN - XDIV - XRTS - XWAR	- BCPD = DeliverCountryIncorporation - BCRO = ResultOption - BCRP = ResultRepo - CBNS = CumBonus - CCPN = CumCoupon - CDIV = CumDividend - CRTS = CumRights - CWAR = CumWarrant - GTDL = GuaranteedDelivery - MAPR = MarketPrice - NEGO = NegotiatedTrade - NMPR = NonMarketPrice - SPCU = SpecialCumDividend - SPEX = SpecialExDividend - XBNS = ExBonus - XCPN = ExCoupon - XDIV = ExDividend - XRTS = ExRights - XWAR = ExWarrant			

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
Group "Hold Types"						0..2	
59	BG	Hold Status Types	Possible values: - CSDH - PTYH - PRCY - BOTH	Type of hold: - CSDH = CSD Hold only the instructed leg is put on CSD Hold - PTYH = only the instructed leg is put on PartyHold - PRCY = only the T2S generated counterleg is put on Party Hold - BOTH = both legs are put on Party Hold	- At least one occurrence must be present if Hold Indicator is set to true - If the hold indicator is set to false or empty, the Hold Status Types column must not be present. - If more than one Hold Reason occurs, the same value cannot be repeated within the same Instruction. - Only the following combinations within the same instruction are possible: – CSDH and PTYH – CSDH and PRCY – CSDH and BOTH - For an unmatched settlement instruction only the following codes for the Hold indicator are allowed:		0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
					- CSDH - PTYH - For an already matched settlement instruction (i.e. if field Already matched instruction has value MACH)the following codes for the Hold indicator are allowed: – CSDH – PTYH – PRCY – BOTH		
Group "Settlement Transaction Condition"						0..3	
60	BH	Settlement Transaction Condition	Possible values: - ADEA - ASGN - BSSP - BPSS - BUTC - CLEN - DIRT - DLWM	Settlement Transaction Condition Code: - ADEA = AcceptAfterRegularSettlementDeadline - ASGN = Assignment - BSSP = BuyInPartiallySuccessful - BPSS = BuyinPartiallySuccessful {CR-874}			1..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
			- DRAW - EXER - EXPI - FRCL - KNOC - NOMC - PENS - PHYS - RESI - RHYP - RPTO - SHOR - SPDL - SPST - TRAN - TRIP - UNEX	- BUTC = BuytoCover - CLEN = Clean - DIRT = Dirty - DLWM = DeliveryWithoutMatching - DRAW = Drawn - EXER = Exercised - EXPI = Expired - FRCL = FreeCleanSettlement - KNOC = KnockedOut - NOMC = NoAutomaticMarketClaim - PENS = PendingSale - PHYS = Physical - RESI = Residual - RHYP = Rehypotheccation - RPTO = Reporting - SHOR = ShortSell - SPDL = SpecialDelivery - SPST = SplitSettlement			

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
				- TRAN = Transformation - TRIP = TripartySegregation - UNEX = Unexposed			
61	BI	Place of Trade ID- Market Identifier Code	Text [A-Z0-9]{4,4}		If the "Place of Trade ID- Market Identifier Code" is filled in, then "Place of Trade ID- Description" cannot be filled in. If the "Place of Trade ID- Market Identifier Code" is filled in, a value for the "Place of Trade Type- Code" must be filled in.	0..1	0..1
62	BJ	Place of Trade ID- Description	Text{1,30} ([0-9a-zA-Z\-\?:\(\)\.,'\+]([0-9a-zA-Z\-\?:\(\)\.,'\+]*(/[0-9a-zA-Z\-\?:\(\)\.,'\+])?)*)		If the "Place of Trade ID- Description" is filled in, then "Place of Trade ID- Market Identifier Code" cannot be filled in. If the "Place of Trade ID- Description" is filled in, a value for the "Place of Trade Type- Code" must be filled in.	0..1	0..1

Flat file column	Excel Column	Column Name	Format	Description	Rules	Occurs per Record	Occurs per Group
63	BK	Place of Trade Type- Code	Possible values: PRIM SECM OTCO VARI EXCH		If the “Place of Trade ID- Market Identifier Code” or “Place of Trade ID- Description” is filled in, a value for the “Place of Trade Type- Code” must be filled in	1..1	1..1
64	BL	Place of clearing	VARCHAR (11) Text [A-Z]{6,6}[A-Z2-9][A-NP-Z0-9]([AZ0-9]{3,3}){0,1}		Shows the BIC code of the Clearing House involved in the settlement (if any).	0..1	0..1
65	BM	Beneficial Ownership	Possible values: YES NO		Specifies whether there is change of Beneficial Ownership.	0..1	0..1

RestrictedFINMax16Text_T2S_1 :

| Pattern: [0-9a-zA-Z\-\?:\(\)\.,'\+]/?([0-9a-zA-Z\-\?:\(\)\.,'\+]/?)*[0-9a-zA-Z\-\?:\(\)\.,'\+]?)

4.2 Format of "Enriched Files"

The format of the enriched files is based on the format of the Excel and the flat files that have been submitted to DMT. The submitted data remains unchanged but is supplemented with "Further Notifications" and "Statistical Information".

4.2.1 Further Notifications for Static Data records

This data appears in the first row of each Static Data record. It is located right to the migration data.

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +1	last +1	Status	Possible values: Migrated Not migrated	Status of the migration.	n/a	1..1
last +2	last +2	Error Code	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +3	last +3	Error Description	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +4	last +4	Error Code 2	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +5	last +5	Error Description 2	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +6	last +6	Error Code 3	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +7	last +7	Error Description 3	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +8	last +8	Error Code 4	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +9	last +9	Error Description 4	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +10	last +10	Error Code 5	CHAR (4)	Code of the error.	Occurs when Status is ‘Not migrated’.	0..1
last +11	last +11	Error Description 5	VARCHAR (210)	Description of the error.	Occurs when Status is ‘Not migrated’.	0..1

“last” stands for the last column with migration data

4.2.2 Further Notifications for Free of Payment Settlement Instruction and Pending Instructions records

This data appears in the first row of each Free of Payment Settlement Instruction or Pending Instructions record. It is located right to the migration data.

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +1	last +1	Status	Possible values: Migrated Not migrated	Status of the migration.	n/a	1..1
last +2	last +2	T2S Reference DELI	VARCHAR (16)	T2S Reference of the delivering instruction	Occurs when Status is 'Migrated'.	0..1
last +3	last +3	T2S Reference RECE	VARCHAR (16)	T2S Reference of the receiving instruction	Occurs when Status is 'Migrated'.	0..1
last +4	last +4	Error Code	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +5	last +5	Error Description	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +6	last +6	Error Code 2	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +7	last +7	Error Description 2	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +8	last +8	Error Code 3	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +9	last +9	Error Description 3	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +10	last +10	Error Code 4	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +11	last +11	Error Description 4	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +12	last +12	Error Code 5	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +13	last +13	Error Description 5	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1

- | "last" stands for the last column with migration data
- | For accepted already matched instructions "T2S Reference DELI" and "T2S Reference RECE" is informed.
- | For accepted unmatched instructions, depending on the movement type the corresponding T2S reference column is informed (either "T2S Reference DELI" or "T2S Reference RECE").

4.2.3 Further Notifications for Settlement Restriction records

This data appears in the first row of each Settlement Restriction record. It is located right to the migration data.

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +1	last +1	Status	Possible values: Migrated Not migrated	Status of the migration.	n/a	1..1
last +2	last +2	T2S Reference	VARCHAR (16)	T2S Reference of the restriction	Occurs when Status is 'Migrated'.	0..1
last +3	last +3	Error Code	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +4	last +4	Error Description	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +5	last +5	Error Code 2	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +6	last +6	Error Description 2	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +7	last +7	Error Code 3	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1
last +8	last +8	Error Description 3	VARCHAR (210)	Description of the error.	Occurs when Status is 'Not migrated'.	0..1
last +9	last +9	Error Code 4	CHAR (4)	Code of the error.	Occurs when Status is 'Not migrated'.	0..1

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +10	last +10	Error Description 4	VARCHAR (210)	Description of the error.	Occurs when Status is ‘Not migrated’.	0..1
last +11	last +11	Error Code 5	CHAR (4)	Code of the error.	Occurs when Status is ‘Not migrated’.	0..1
last +12	last +12	Error Description 5	VARCHAR (210)	Description of the error.	Occurs when Status is ‘Not migrated’.	0..1

! “last” stands for the last column with migration data

4.2.4 Statistical Information

This data appears in the 2nd row of the spreadsheet. It is located right to the further notifications.

Flat file column	Excel Column	Field	Format	Description	Rules	Occurs per Record
last +12	last +12	Submitted	NUMERIC (10)	Total number of records submitted.	n/a	1..1
last +13	last +13	Migrated	NUMERIC (10)	Total number of records that have been migrated successfully.	n/a	1..1
last +14	last +14	Not Migrated	NUMERIC (10)	Total number or records that have not been migrated due to an error.	n/a	1..1

! "last" stands for the last column with migration data

4.3 Format of Delta Files

The format of the delta files is the same as the format of the Excel and the flat files. The difference is that those records that have been migrated successfully are dropped from the submitted file. The remaining records shall be edited and the file could be submitted again.