



# **STANDARD JOURNAL FILE STRUCTURE SPECIFICATION**

## **VERSION 3.7.4**

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### 1. PURPOSE

To provide format and other details related to the standard integration file format output by the CS Lucas system.






## 2. JOURNAL FILE FORMAT

Section	Item	Field Name	Remarks	Max Output Length	Indicative Output Length
<b>Header</b>					
	1.01	Record Type (Header / Line / Footer Item)	1	1	1
	1.02	Accounting Centre Company Code	Accounting Centre Company Code must be same as per ERP System Company Code	1000	As Per SAP Setup
	1.03	Trade ID / PostRef	Example: MMK100008.00/100001	50	20
	1.04	Effective Date	Value Date of the trade. Format: YYYYMMDD	10	10
	1.05	Post Date	Format: YYYYMMDD	10	10
	1.06	Reversing PDate	Post Date of journal being reversed. Format: YYYYMMDD	10	10
	1.07	Currency	Trade Currency. ERP system must use the same currency code as CS Lucas system.	10	10
	1.08	Document Type	TE - Month End Accruals TB - All other types of journals	2	2
	1.09	Event ID	- CS Lucas System Reference Number of the journal - unique system-wide except for Foreign Exchange trade journals, see explanation in section 5 (j) below.  - Example: dc45e7ce-0132-f5b2-7f92-c0a8016caa77  - System generated. Users cannot see this from the system.	50	36
	1.10	Event Ref	- CS Lucas System Reference Number of the original journal for the reversing journal.  - System generated. Users cannot see this from the system.	50	36
	1.11	Event Ref Alt	- CS Lucas System Reference Number for the WHT Provision journal.  - System generated. Users cannot see this from the system.	50	36
	1.12	H Ref Date	Maturity Date of Money Market trade. Format YYYYMMDD	10	10
	1.13	H Ref Amount	Interest Amount of the Money Market trade.	16	16
	1.14	Event Type	Example: 11000101  System key. Users cannot see this from the system. See "Appendix II - Event Type List" for the complete list.	8	8
	1.15	Key ID	Link to the line item, see 2.34 below.	4	4

	1.16	Base Currency	Base Ccy - ERP system must use the same currency code as CS Lucas system.	10	10
<b>Line Item</b>					
	2.01	Record Type (Header / Line / Footer Item)	2	1	1
	2.02	Business Division (Business Area)		1000	As Per SAP Setup
	2.03	Posting Key	40 - Debit GL a/c 50 - Credit GL a/c	2	2
	2.04	Mapped A/C	ERP GL number	17	As Per SAP Setup
	2.05	Account Type	Example: 11070001  System key. Users cannot see this from the system. See "Appendix I - Account Type List" for the complete list.	8	8
	2.06	Business Division (Business Area) of Trading Partner		1000	As Per SAP Setup
	2.07	Trading Partner Code	Counterparty Code must be same as per ERP System Company Code if internal.	1000	As Per SAP Setup
	2.08	Currency Amount	Amount in trade currency.	16	16
	2.09	Base Amount	Amount in base currency.	16	16
	2.10	BLANK		0	0
	2.11	Cost Center		1000	As Per SAP Setup
	2.12	BLANK		0	0
	2.13	BLANK		0	0
	2.14	Value Date	Value Date of the trade. Format: YYYYMMDD	10	10
	2.15	Portfolio Short Name	Portfolio shortname that is tagged to a trade. Set-up by the users.	50	Check with users
	2.16	Journal Description	A brief description of the journal. System generated.  Example: Borrow USD 1,000,000.00 w/DBS @3.000000%	500	250
	2.17	BLANK		0	0
	2.18	BLANK		0	0
	2.19	Profit Center		1000	As Per SAP Setup
	2.20	Internal Counterparty Profit Center		1000	As Per SAP Setup
	2.21	BLANK		0	0
	2.22	BLANK		0	0

	2.23	BLANK		0	0
	2.24	Counterparty Short Name	Shortname of the counterparty as per the set-up in CS Lucas system. Set-up by the users.	50	Check with users
	2.25	WHT Type	Withholding tax type.	1000	As Per SAP Setup
	2.26	WHT Code	Withholding tax code.	1000	As Per SAP Setup
	2.27	Ref Ccy	Currency for line item 2.28	10	10
	2.28	Ref Amt	The interest amount in the trade currency on which withholding tax is charged.	16	16
	2.29	Ref Ccy Alt		10	10
	2.30	Ref Amt Alt		16	16
	2.31	Trade Narrative	User input narrative from the trade.	1000	1000
	2.32	Apply WHT	GROSS NET *Whether gross or net method		6
	2.33	WHT Rate	WHT rate of 10%	6	6
	2.34	Key ID	Link to the header, see 1.15 above.	4	4
	2.35	Exchange Rate	Exchange rate for conversion from trade currency to base currency.	16	16
<b>Footer (Only one record at the end of the file)</b>					
	3.01	Record Type (Header / Line / Footer Item)	3	1	1
	3.02	Hash Total of all the amount in the file	Example: 4000000.00	16	16
	3.03	Total number of Header items in the file	Example: 2	4	4
	3.04	Total number of Line items in the file	Example: 4	4	4
<b>Legend</b>					
		Withholding tax fields (Optional)			
		Division/Cost Centre set-up (Optional)			
		Reference Key (Optional)			

### 3. SAMPLE FILES

Sample files contain the following sample journals.	Files
<p><b><u>File Name:</u></b> TMS-3205-07092016-171928-100001.txt</p> <p><b><u>Content:</u></b> Money Market trade start journal.</p>	 <b>TMS-3205-07092016-171928-100001.txt</b>
<p><b><u>File Name:</u></b> TMS-3205-07092016-171928-100002.txt</p> <p><b><u>Content:</u></b> Foreign Exchange VDate journal. The journals are split by the currency. So for 1 Foreign Exchange trade, there would two sets of journals, one for each currency.</p>	 <b>TMS-3205-07092016-171928-100002.txt</b>
<p><b><u>File Name:</u></b> TMS-3205-07092016-171928-100003.txt</p> <p><b><u>Content:</u></b> Money Market month end accrual journals.</p>	 <b>TMS-3205-07092016-171928-100003.txt</b>
<p><b><u>File Name:</u></b> TMS-3205-07092016-171929-100004.txt</p> <p><b><u>Content:</u></b> Money Market month end accrual reversal journals.</p>	 <b>TMS-3205-07092016-171929-100004.txt</b>
<p><b><u>File Name:</u></b> TMS-3205-07092016-171929-100005.txt</p> <p><b><u>Content:</u></b> Money Market maturity journals.</p>	 <b>TMS-3205-07092016-171929-100005.txt</b>

## 4. ERP LOG FILE

- a) Output file has the naming format of:

ErpLogfile\_[YYYYMMDD].txt  
For example, ErpLogfile\_20101210.txt

- b) There will be one file per day.

- c) Set up the folder location of the log file. See section 5 (b) below for more details. This is set up entity by entity.

Example of a set up:

Entity Preference

TFS-SG

Update

ERP Posting Log File Path C:/Belsize/integration

- d) Two or more entity may share the same folder. In this case, these accounting centre logging will go into a single log file for that date. See below.

- e) If you wish for each entity to have their own log file, then you set up different folder location for each entity.

- f) The file will be in a tab delimited format. Sample format is below

TIMESTAMP	USERID	CODE	BATCHID	FILEPATH_NAME	HEADERCOUNT	LINECOUNT	CHECKSUM
10 Dec 2010 15.46.34.344	Userid:785	3205	100001	C:/Belsize/integration/test/TMS-3205-10122010-154634-100001.txt	1	2	4000000
10 Dec 2010 15.46.34.516	[AUTO]	3205	100002	C:/Belsize/integration/test/TMS-3205-10122010-154634-100002.txt	2	4	18006000
10 Dec 2010 15.46.34.812	[AUTO]	3205	100003	C:/Belsize/integration/test/TMS-3205-10122010-154634-100003.txt	2	4	3756.68
10 Dec 2010 15.46.35.453	[AUTO]	3205	100004	C:/Belsize/integration/test/TMS-3205-10122010-154635-100004.txt	1	2	3683
10 Dec 2010 15.46.35.594	[AUTO]	3205	100005	C:/Belsize/integration/test/TMS-3205-10122010-154635-100005.txt	1	5	4014340.6

Item 1      Timestamp with decimal seconds



Item 2	If triggered by schedule, show [AUTO] If triggered by user, shows user id
Item 3	Company code
Item 4	File path and file name
Item 5	Number of journal header items
Item 6	Number of journal line items
Item 7	Checksum

Note: The system may have problems logging. This will not prevent the journal batch file from being generated. Problem in logging may arise from:

- incorrect/incomplete set up
- no write permission
- open files

**Sample log file output from the system:**



ErpLogfile\_2016090  
7.txt

## 5. JOURNAL INTEGRATION RELATED DETAILS

- a) File naming convention is: TMS-<COMPANY\_CODE>-<DATE>-<TIME>-<BATCH\_ID>.txt  
Note: Batch ID given above refers to the Post Ref generated by the CS Lucas system when the posting is done. This is also sent out in the file, see field 1.03 in section 2 above.

Company Code is set up under Entity Preference in CS Lucas system, see point (b) below.

- b) The following Entity Preference items must be set up.
- i. Accounting System: must be set up as SAP Tab Delimited Format 001
  - ii. Company Code: must match the accounting system company code. This must be set up, it is sent out in the file name (see (a) above and in the field 1.02 in the section 2 above)
  - iii. ERP File Path: The path where the integration file should be posted.
  - iv. ERP Posting Log File Path: The path where the log should be posted. See section 4 above for details on the log file.

See this guide for more details <http://www.cslucas.com/user-guide/entity-preference-set-up/>

- c) The file is in tab-delimited format. See section 2 and 3 above for file format specification and sample files.
- d) Each file (containing a batch of journal entries) that is output successfully, will be logged in a log file. Hash total of all amount, total number of header items and total number of line items of the file will be logged in the log file. See section 4 above for the detailed file format specification and sample file.
- e) Different accounting centre's journals will be output as a separate file.
- f) Journal entries are output by batch. When posting the CS Lucas integration file to the accounting system, if any journal has error in the file that requires rectification in the CS Lucas system, then the entire file should not be posted to the accounting system. This particular posting (identified by Post Ref) should be unposted in CS Lucas system. The error should then be rectified and all the journals should be posted again. This will generate another Post Ref. The accounting system then should read and post the new file.
- g) Number of integration files are not fixed. CS Lucas system can be configured to do scheduled posting. This would generate one file per accounting centre. However, users can also trigger the posting on demand so there could be multiple files to be read into the accounting system for one accounting centre.
- h) Most of the CS Lucas field length may be longer than the accounting system field length. To limit the CS Lucas field length according to accounting system's field length is not possible. As such, the accounting system program has to truncate the source data according to the available field length. Users need to be aware of this limitation during data input in CS Lucas system. See section 2 for the integration format details.
- i) CS Lucas system will only post to General Ledger, there will be no posting done to AP/AR (also may be known as sub-ledger).

- j) The only identifier in the integration file to link the reversal journal to the original journal are the Event ID (1.09) and Event Ref (1.10) fields. The Event ID of the original journal of a reversing journal will be in field Event Ref (1.10).  
Event ID is a unique key in the CS Lucas system for all journals. The only instance where the Event ID will not be unique in the integration file is in the case of Foreign Exchange transactions. This is because a Foreign Exchange trade has two currencies and the journals are split by these two currencies which is given in field 1.07 (Currency).
- k) Duplicate event IDs across multiple files are possible but very uncommon. Duplicates typically only occur when a journal has been reposted. Journals are only reposted if system encounters problems processing or integrating the original file or if the original file is missing.
- l) From the file structure, it is possible to identify the header, line item and footer based on the first field (i.e. 1.01, 2.01 and 3.01). Header will always be 1, line item will always be 2 and footer will always be 3. The footer will be only one entry per file, at the end of the file.  
There are also fields that would be useful to identify or check the header with the corresponding line items (fields 1.15 and 2.34).
- m) Trading Partner Code can be setup in CS Lucas system. This setup is done in Set Up > Entity > (If setting up for counterparty, click on Counterparty button first) Click on Entity Short Name > Preference Button > Trading Partner Code.  
When the journals are posted, this trading partner code is sent out in the file (field 2.07).

See this guide for more details <http://www.cslucas.com/user-guide/entity-preference-set-up/>

- n) Business Area, Cost Center and Profit Center data are captured in CS Lucas field “Division” in Entity Preference with format “Business Area/Cost Center/Profit Center”. This setup is done in Set Up > Entity > Click on Entity Short Name > Preference Button > Divisions (D1/C1/P1,D2/C2/P2).  
Multiple Divisions can be setup under one entity, however, only one Division can be tagged to a trade.

See this guide for more details <http://www.cslucas.com/user-guide/entity-preference-set-up/>

- o) CS Lucas do not rely on the accounting system to invoke reversal. CS Lucas system will handle all the reversals. When user makes a trade amendment/deletion in CS Lucas system, a reversal journal will be generated if the original journals have been posted. All trades requires approval before posting is allowed.

The month end journals in CS Lucas system are always reversing in nature. So there will be a reversal journal generated for each month end journal on the first day of the following period. Accounting system should treat all journals from CS Lucas as standard journals.

- p) For account types that show gain/loss there is no currency amount and only show the gain/loss in the base amount. Therefore, the system will set the exchange rate is set to 0 when there is not currency amount. For example, see below journal:

**J14 Principal and Interest Settlement of Term Loan (Repay P+I)**

TradeID	PostDate	B/P	Account	Ccy	Ccy Amt D/(CR)	Rate	Base	Base Amt D/(CR)	Line
TML1001/006	10-Apr-17	B	TML - Borrowing	CLP	6,000,000,000.00	0.002487	SGD	14,923,000.00	J14a
TML1001/006	10-Apr-17	P	TML - Borrowing - Interest Expense	CLP	303,677,778.00	0.002521	SGD	765,593.49	J14b
TML1001/006	10-Apr-17	B	Cash at Bank	CLP	-6,303,677,778.00	0.002554	SGD	-16,099,593.05	J14c
TML1001/006	10-Apr-17	P	FX - Realised Losses - Capital	CLP	0.00	0.000000	SGD	401,000.00	J14d
TML1001/006	10-Apr-17	P	FX - Realised Losses - Revenue	CLP	0.00	0.000000	SGD	9,999.56	J14e

## 6. CHANGE HISTORY

Date	By	Changes
03-Jan-2017	V	Created based on original version 3.7.

## APPENDIX I – Account Type List

Acct Type	DESCRIPTION
11070001	Cash at Bank
11070002	Intercompany
11070003	FX Cash Clearing Account
11070004	Interbank Settlement Clearing
11070100	MMK - Deposit
11070101	MMK - Deposit Interest Income
11070102	MMK - Deposit - Interest Receivables
11070200	MMK - Loan
11070201	MMK - Loan Interest Expense
11070202	MMK - Loan - Interest Payables
11070203	MMK - Termination Penalty
11070204	MMK - Deposit - Long Term
11070205	MMK - Loan - Long Term
11070206	MMK - WHTA Dr
11070207	MMK - WHTB Dr
11070208	MMK - WHT Other Dr
11070209	MMK - WHTA Cr
11070210	MMK - WHTB Cr
11070211	MMK - WHT Other Cr
11070302	INV: Purchase Interest - Unsettled
11070303	INV: Due to Broker
11070304	INV: Due from Broker
11070305	INV: Trading Income Price Impact
11070306	INV: Trading Income FX Impact
11070307	INV: Brokerage
11070308	INV: Contract Stamp
11070309	INV: Contract Fees
11070310	INV: Other Fees
11070311	INV: GST - Investment
11070312	INV: Investment Interest Income
11070313	INV: Investment Interest Receivable
11070314	INV: Unrealised MTM - P/L - Price
11070315	INV: Unrealised MTM - Reserve
11070317	DIV:Dividend Receivable
11070318	DIV:Tax on Dividend
11070319	DIV:Other Dividend Expenses
11070320	DIV:Dividend Income
11070321	CPN:Coupon Income
11070322	CPN:Withholding Tax on Coupon Income
11070323	INV: Unrealised MTM - P/L - FX Impact
11070328	INV: Investment Bond Cost
11070329	INV: Investment Equity Cost
11070330	INV: Investment Structure Security Cost
11070331	INV: Bond Premium/Discount
11070332	INV: Bond Premium Amort/Disc Acc
11070333	INV: Investment Bond Cost - Revaluation
11070334	INV: Investment Equity Cost - Revaluation

11070335	INV: Investment Structure Security Cost - Revaluation
11070401	FRX: Deals Payables
11070402	FRX: Deals Receivables
11070403	FRX: Derivative Asset Fair Value
11070404	FRX: Derivative Liability Fair Value
11070405	FRX: Other Cumulative Income Reserve
11070406	FRX: Other Cumulative Expense Reserve
11070407	FRX: FX Settle Translation Debit
11070408	FRX: FX Settle Translation Credit
11070501	SWP: Netting Interest Expense
11070502	SWP: Netting Interest Payable
11070503	SWP: Netting Interest Income
11070504	SWP: Netting Interest Receivable
11070505	SWP: Sweep Interest Income
11070506	SWP: Sweep Interest Expenses
11070601	COP: Option Premium Income
11070602	COP: Option Premium Expenses
11070603	COP: Option Revaluation Surplus
11070604	COP: Option Revaluation Deficit
11070605	COP: Option Unrealised Gain
11070606	COP: Option Unrealised Losses
11070607	COP: Option Realised Gain
11070608	COP: Option Realised Losses
11070701	IRS - Principal Paid
11070702	IRS - Interest Income
11070703	IRS - Interest Receivables
11070704	IRS - Principal Received
11070705	IRS - Interest Expense
11070706	IRS - Interest Payables
11070707	IRS: MTM Gains
11070708	IRS: MTM Losses
11070709	IRS - MTM Revaluation
11070710	IRS - Derivative Financial Instrument
11070711	IRS - Hedging Reserve
11070801	TML - Lending
11070802	TML - Lending Interest Income
11070803	TML - Lending - Interest Receivables
11070804	TML - Borrowing
11070805	TML - Borrowing Interest Expense
11070806	TML - Borrowing - Interest Payables
11070807	TML - Lending - Long Term
11070808	TML - Borrowing - Long Term
11070809	TML - WHTA Dr
11070810	TML - WHTB Dr
11070811	TML - WHT Other Dr
11070812	TML - WHTA Cr
11070813	TML - WHTB Cr
11070814	TML - WHT Other Cr
11070901	NDF - Realised Loss - NDF
11070902	NDF - Realised Gain - NDF
11070903	NDF - Revaluation
11071001	BND - Borrowing

11071002	BND - Borrowing Interest Expense
11071003	BND - Borrowing - Interest Payables
11071101	CAF - Premium Income
11071102	CAF - Premium Expense
11071103	CAF - Interest Settlement Income
11071104	CAF - Interest Settlement Expense
11071105	CAF: MTM Gains
11071106	CAF: MTM Losses
11071201	Interco Advance
11071202	Interco Advance Interest Receivable
11071203	Interco Advance Interest Income
11071204	Interco Advance Interest Payable
11071205	Interco Advance Interest Expense
11071206	Interco Advance Payable
11071207	Interco Advance Receivable
11071301	Withholding Tax Payable DR
11071302	Withholding Tax Payable CR
11071303	Withholding Tax Receivable DR
11071304	Withholding Tax Receivable CR
11071401	MIS: Bank Charges
11071402	MIS: Fee Prepaid
11071403	MIS: Fee Expense
11071404	MIS: Fee Income
11071499	MIS: Others
11071501	MAP: Pay Fees/Charges
11071502	MAR: Receive Fees/Charges
11078101	FX - Realised Gains - Revenue
11078102	FX - Realised Gains - Capital
11078103	FX - Unrealised Gains- Revenue
11078201	FX - Unrealised Gains - Capital
11079101	FX - Realised Losses - Revenue
11079102	FX - Realised Losses - Capital
11079151	FX - Unrealised Losses - Revenue
11079152	FX - Unrealised Losses - Capital
11079201	FX - Realised - General
11079202	FX - Unrealised - General
11079251	FX - Monetary Asset - Gain
11079252	FX - Monetary Asset - Losses
11079401	FX - Realised Gains - FX Trade
11079402	FX - Realised Losses - FX Trade
11079451	FX - Unrealised Gains - FX Trade
11079452	FX - Unrealised Losses - FX Trade
11079453	FX - Unrealised Gains - NDF
11079454	FX - Unrealised Losses - NDF
11079455	FX - Realised Gains - Investment
11079456	FX - Realised Losses - Investment
11079457	FX - Unrealised Gains - Investment
11079458	FX - Unrealised Losses - Investment
11079459	FX - Unrealised Gains Swap Point - FX Trade
11079460	FX - Unrealised Losses Swap Point - FX Trade
11079461	FX - Realised Gains Swap Point - FX Trade
11079462	FX - Realised Losses Swap Point - FX Trade

11079501	FX - Revaluation - Realised
11079502	FX - Revaluation - Unrealised
11079601	FX Realised Losses Capital - Advances
11079602	FX Realised Gains Capital - Advances
11079603	FX Realised Losses Revenue - Advances
11079604	FX Realised Gains Revenue - Advances
11079605	FX Unrealised Losses Capital - Advances
11079606	FX Unrealised Gain Capital - Advances
11079607	FX Unrealised Losses Revenue - Advances
11079608	FX Unrealised Gain Revenue - Advances
11079998	AP Control
11079999	Rounding Account



## APPENDIX II – Event Type List

Event Type	Description
11000101	MM Start
11000102	MM Mature
11000103	MM Accrue
11000201	FX TDate
11000202	FX VDate
11000301	Cash Settlement
11000401	Interco Settlement
11009101	Stock Adjustment
11000203	FX MTM
11000501	Investment TDate
11000502	Investment SDate
11000510	MTM Investment Security
11000511	Amortise/Accrete Investment Security
11000512	Bond Interest Accruals
11009102	Monetary Asset Adjustment
11000513	Dividend Income Accruals
11000514	Dividend Settlement
11000515	Corporate Action Cash Settlement
11000516	Coupon Income Settlement
11000517	MMF Interest Accruals
11000518	MMF Interest Settlement
11000601	Fees and Cash Transactions Flow (Debit/Credit Note)
11000701	Advances
11000702	Advances Accruals
11000801	Term Loan Drawdown
11000802	Term Loan Additional Principal
11000803	Term Loan Repayment Principal/Interest
11000804	Term Loan Month End Accruals
11000901	Cash Sweep Netting Interest Accrue (Master)
11000902	Cash Sweep Netting Interest Accrue (Child)
11001002	Cash Sweep Netting Interest Cash Activity
11001003	Cash Sweep Interest
11001101	IRS Initial Principal Exchange
11001102	IRS Periodic Exchange
11001103	IRS Final Exchange
11001104	IRS Accrual/Revaluation
11001201	NDF Net Settlement
11001202	NDF Revaluation
11001301	Currency Option Initial Premium
11001302	Currency Option Net Settlement
11001303	Currency Option Revaluation
11001401	Bond Issue Drawdown
11001402	Bond Issue Additional Principal
11001403	Bond Issue Repayment Principal/Interest
11001404	Bond Issue Month End Accruals
11001501	Caps and Floors Premium
11001502	Caps and Floors Settlement

11001601	Withholding Tax Payable on Accrual MM
11001602	Withholding Tax Receivable on Accrual MM
11001603	Withholding Tax Payable on Accrual Term Loan
11001604	Withholding Tax Receivable on Accrual Term Loan
11001605	Withholding Tax Payable on Accrual Advance
11001606	Withholding Tax Receivable on Accrual Advance
11001607	Withholding Tax Payable on Accrual IRS
11001608	Withholding Tax Receivable on Accrual IRS
11001701	Fee Amortization Month End