Foreign Exchange Outright Cross

PURPOSE

To show illustration of foreign exchange outright cross.

OVERVIEW

- i. Foreign Exchange outright transaction revalued at period and using forward rates discounted to present value.
- ii. Settlement amounts are journalled across multi-currency cash clearing accounts in the general ledger.

TRANSACTION DETAILS

Accounting Base Ccy			
Trade ID			
Trade Dat	te		
Value Dat	te		
Buy			
Sell			
Buy Amou	nt		
Sell Amount			
USD			
FRX1001			
25-Mar-03			
3-Apr-03			
SGD			
GBP			
2,490,000.00			
-1,000,000.00			
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SUMMARY OF JOURNALS

ID	Date	Description
J1	31-Mar-03	Month end revaluation
J2	1-Apr-03	Reversal of Month end revaulation
Ј3	3-Apr-03	Settlement of Trade
J4	3-Apr-03	Settlement of Trade

J1 Month end revaluation

TradeID	PostDate	B/P	Account	Ссу	Ccy Amount	Exc Rate	Ссу	Base Amount	Line
FRX1001	31-Mar-03	В	FRX: Derivative Liability Fair Value	USD	-9,116.91	1.000000	USD	-9,116.91	J1a
FRX1001	31-Mar-03	Р	FX - Unrealised Losses - FX Trade	USD	9,116.91	1.000000	USD	9,116.91	J1b

Note J1a: The FX revaluation Profit/Loss is analyzed as follows:

Forward Points at 31-Mar-03

CCY	Description	Days	Bid	Offer	Mid
GBP	1 Week	7	10	12	11
	1 Month	30	25	27	26
SGD	1 Week	7	-46	-44	-45
	1 Month	30	-69	-67	-68

Interpolation of GBP forward points

7 days forward	11	A
Days	3	A' = 31-Mar-03 to -3-Apr-03
3 days forward	4.714285714	B = A/7* A'
Spot Rate at 31-Mar-03	1.448060	С

Add Forward Points	0.000471	D = B/10000
Forward Rate	1.448531	E = C + D

Interpolation of SGD forward points

7 days forward	-45	A2
Days	3	A2' = 31-Mar-03 to 3-Apr-03
3 days forward	-19.28571429	B2= A2 / 7 * A2'
Spot Rate at 31-Mar-03	1.731800	C2
Add Forward Points	-0.001929	D2 = B2/10000
Forward Rate	1.729871	E2 = C2 + D2

Computation of forward rate

SGD forward rate to USD	1.729871	F = E2
GBP forward rate to USD	1.448531	G = E
SGD forward rate to GBP	2.505773	H = F * G

Future Value Profit and Loss in Settlement (Against Currency) GBP

Transaction Amount	SGD	2,490,000.00	I
Cost	GBP	1,000,000.00	J
Revalued	GBP	993,705.41	K = I / H
Losses (FV)	GBP	-6,294.59	I = K - J

Discounting Valuation Currency Method

(FV) USD -9,117.91 J = I * E

Discount Rate

Ccy	Description	Days	Rate
USD	1 Week	7	3.123%
USD	1 Month	30	4.456%

Interpolation of discount rate

7 days forward	3.123%	K
3 days forward	1.338%	L = K / 7 * A'
Discount Factor	0.999890763	$M = 1/(1+L)^{3/365}$

Present Value Profit and Loss in Settlement (Against Currency) USD

Losses(PV)
$$-9,116.91$$
 N = J * M

I2 Reversal of Month end revaluation

TradeID	PostDate	В/Р	Account	Ссу	Ccy Amount	Exc Rate	Ссу	Base Amount	Line
FRX1001	1-Apr-03	В	FRX: Derivative Liability Fair Value	USD	9,116.91	1.000000	USD	9,116.91	J2a
FRX1001	1-Apr-03	Р	FX - Unrealised Losses - FX Trade	USD	-9,116.91	1.000000	USD	-9,116.91	J2b

J3 Settlement of Trade

TradeID	PostDate	B/P	Account	Ссу	Ccy Amount	Exc Rate	Ссу	Base Amount	Line
FRX1001	3-Apr-03	В	Cash at Bank	SGD	2,490,000.00	0.581416	USD	1,447,724.92	J3a
FRX1001	3-Apr-03	В	FX Cash Clearing Account	SGD	-2,490,000.00	0.581416	USD	-1,447,724.92	J3b

Note J3a: The exchange rate on value date is 1.719940 (multiplier 0.581416). See Exchange Rates below. The rate is rounded to 6dp for display. Full precision is used in calculation.

J4 Settlement of Trade

TradeID	PostDate	В/Р	Account	Ссу	Ccy Amount	Exc Rate	Ссу	Base Amount	Line
FRX1001	3-Apr-03	В	Cash at Bank	GBP	-1,000,000.00	1.455237	USD	-1,455,236.81	J4a
FRX1001	3-Apr-03	В	FX Cash Clearing Account	GBP	1,000,000.00	1.455237	USD	1,455,236.81	J4b

Note J4a: The exchange rate on value date is 1.455237. See Exchange Rates below. The rate is rounded to 6dp for display. Full precision is used in calculation.

EXCHANGE RATES

The following rates were used for this illustration.

Spot rate

Date	USD to SGD	SGD to USD*	GBP to USD	GBP/SGD
31-Mar-03	1.731800	0.577434	1.448060	2.507750
3-Apr-03	1.719940	0.581416	1.455237	2.502920

^{*}Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

FREQUENTLY ASKED QUESTIONS

RELATED INFORMATION

CHANGE HISTORY

Date	By	Changes
28-Jul-2008	CS	Creation.
10-Jun-2016	RJ	Reformatted.
23-Apr-2020	LT	Re-formatting.