

IRS Cross Ccy - Notional

PURPOSE

To show illustration of IRS cross currency notional.

OVERVIEW

TRANSACTION DETAILS

Accounting Base Ccy	
Trade ID	
Trade Date	
Start Date	
Maturity Date	
Structure	
USD	
IRS1001	
3-Feb-03	
3-Feb-03	
3-Feb-06	
Notional	

Principal
Basis
Rate %
Accrual Method
Frequency

Pay Leg

USD 1,000,000

Fixed
5.000000
Act/360
Quarterly

Rec Leg

SGD 1,750,000
Float
5.000000
Act/365 (fixed)
Quarterly

Interest Payment Dates

From Date

3-Feb-03
5-May-03
3-Nov-05

To Date

5-May-03
4-Aug-03
3-Feb-06

Days

91
91
92

Fix Rate

5.000000%
5.000000%
5.000000%

USD (Pay) Fix

-12,638.89
-12,638.89
-12,777.78

Float Reset

4.900000%
5.123200%
4.900000%

SGD (Rec) Float

21,378.77
22,352.59
21,613.70

SUMMARY OF JOURNALS

ID	Date	Description
J1	28-Feb-03	Month End IRS Accruals
J2	1-Mar-03	Reversal Month End IRS Accruals
J3	31-Mar-03	Month End IRS Accruals
J4	1-Apr-03	Reversal Month End IRS Accruals.
J5	30-Apr-03	Month End IRS Accruals.
J6	1-May-03	Reversal Month End IRS Accruals
J7	5-May-03	Interest Settlement on IRS
J8	3-Feb-06	Final Settlement on IRS

J1 **Month End IRS Accruals**

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	28-Feb-03	B	[7000] IRS Receivable	SGD	6,108.22	0.568919	USD	3,475.08	J1a
IRS1001	28-Feb-03	P	[7002] IRS Income	SGD	-6,108.22	0.571584	USD	-3,491.36	J1b
IRS1001	28-Feb-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	16.28	J1c
IRS1001	28-Feb-03	B	[7001] IRS Payable	USD	-3,611.11	1.000000	USD	-3,611.11	J1d
IRS1001	28-Feb-03	P	[7003] IRS Expenses	USD	3,611.11	1.000000	USD	3,611.11	J1e

Note J1a: Calculation of Accrual in SGD

Start date	3-Feb-03	
Month End Date	28-Feb-03	
Days (include 28-Feb)	26	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	21,378.77	=C
Period Interest	6,108.22	=C*A/B

Note J1b: The average multiplier rate between 3-Feb and 28-Feb is 0.571584. See Exchange Rates below.

Note J1c: The unrealised foreign exchange loss on interest income is analyzed as follows:

	SGD	Rate+	USD
At Closing Rate	6,108.22	0.568919	3,475.08

At Average Rate	6,108.22	0.571584	3,491.36
	Loss in exchange		-16.28

+ Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

Note J1d: Calculation of Accrual in USD

Start date	3-Feb-03	
Month End Date	28-Feb-03	
Days (include 28-Feb)	26	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	12,638.89	=C
Period Interest	3,611.11	=C*A/B

J2 Reversal Month End IRS Accruals.

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	1-Mar-03	B	[7000] IRS Receivable	SGD	-6,108.22	0.568919	USD	-3,475.08	J2a
IRS1001	1-Mar-03	P	[7002] IRS Income	SGD	6,108.22	0.571584	USD	3,491.36	J2b
IRS1001	1-Mar-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	-16.28	J2c
IRS1001	1-Mar-03	B	[7001] IRS Payable	USD	3,611.11	1.000000	USD	3,611.11	J2d
IRS1001	1-Mar-03	P	[7003] IRS Expenses	USD	-3,611.11	1.000000	USD	-3,611.11	J2e

J3 Month End IRS Accruals.

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	31-Mar-03	B	[7000] IRS Receivable	SGD	13,391.10	0.577434	USD	7,732.47	J3a
IRS1001	31-Mar-03	P	[7002] IRS Income	SGD	-13,391.10	0.571775	USD	-7,656.70	J3b
IRS1001	31-Mar-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	-75.77	J3c
IRS1001	31-Mar-03	B	[7001] IRS Payable	USD	-7,916.67	1.000000	USD	-7,916.67	J3d
IRS1001	31-Mar-03	P	[7003] IRS Expenses	USD	7,916.67	1.000000	USD	7,916.67	J3e

Note J3a: Calculation of Accrual in SGD

Start date	3-Feb-03	
Month End Date	31-Mar-03	
Days (include 31-Mar)	57	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	21,378.77	=C
Period Interest	13,391.10	=C*A/B

Note J3b: The average multiplier rate between 3-Mar and 31-Mar is 0.571775. See Exchange Rates below.

Note J3c: The unrealised foreign exchange gain on interest income is analyzed as follows:

	SGD	Rate+	USD
At Closing Rate	13,391.10	0.577434	7,732.47
At Average Rate	13,391.10	0.571775	7,656.70

	Gain in exchange		75.77
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+ Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

Note J3d: Calculation of Accrual in USD

Start date	3-Feb-03	
Month End Date	31-Mar-03	
Days (include 31-Mar)	57	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	12,638.89	=C
Period Interest	7,916.67	=C*A/B

J4 Reversal Month End IRS Accruals

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	1-Apr-03	B	[7000] IRS Receivable	SGD	-13,391.10	0.577434	USD	-7,732.47	J4a
IRS1001	1-Apr-03	P	[7002] IRS Income	SGD	13,391.10	0.571775	USD	7,656.70	J4b
IRS1001	1-Apr-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	75.77	J4c
IRS1001	1-Apr-03	B	[7001] IRS Payable	USD	7,916.67	1.000000	USD	7,916.67	J4d
IRS1001	1-Apr-03	P	[7003] IRS Expenses	USD	-7,916.67	1.000000	USD	-7,916.67	J4e

J5 Month End IRS Accruals

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	30-Apr-03	B	[7000] IRS Receivable	SGD	20,439.04	0.567681	USD	11,602.85	J5a
IRS1001	30-Apr-03	P	[7002] IRS Income	SGD	-20,439.04	0.572554	USD	-11,702.46	J5b
IRS1001	30-Apr-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	99.61	J5c
IRS1001	30-Apr-03	B	[7001] IRS Payable	USD	-12,083.33	1.000000	USD	-12,083.33	J5d
IRS1001	30-Apr-03	P	[7003] IRS Expenses	USD	12,083.33	1.000000	USD	12,083.33	J5e

Note J5a: Calculation of Accrual in SGD

Start date	3-Feb-03	
Month End Date	30-Apr-03	
Days (include 30-Apr)	87	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	21,378.77	=C
Period Interest	20,439.04	=C*A/B

Note J5b: The average multiplier rate between 3-Feb to 30-Apr is 0.572554. See Exchange Rates below.

Note J5c: The unrealised foreign exchange loss on interest income is analyzed as follows:

	SGD	Rate+	USD
At Closing Rate	20,439.04	0.567681	11,602.85
At Average Rate	20,439.04	0.572554	11,702.46

	Loss in exchange		-99.61
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+ Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

Note J5d: Calculation of Accrual in USD

Start date	3-Feb-03	
Month End Date	30-Apr-03	
Days (include 30-Apr)	87	=A
Start date	3-Feb-03	
Maturity Date	5-May-03	
Days (exclude 5-May)	91	=B
Total Interest	12,638.89	=C
Period Interest	12,083.33	=C*A/B

J6 Reversal Month End IRS Accruals

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	1-May-03	B	[7000] IRS Receivable	SGD	-20,439.04	0.567681	USD	-11,602.85	J6a
IRS1001	1-May-03	P	[7002] IRS Income	SGD	20,439.04	0.572554	USD	11,702.46	J6b
IRS1001	1-May-03	P	[5003] Unrealised FX Gains and Loss	SGD	0.00	0.000000	USD	-99.61	J6c
IRS1001	1-May-03	B	[7001] IRS Payable	USD	12,083.33	1.000000	USD	12,083.33	J6d
IRS1001	1-May-03	P	[7003] IRS Expenses	USD	-12,083.33	1.000000	USD	-12,083.33	J6e

J7 Interest Settlement on IRS

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	5-May-03	B	Cash	SGD	21,378.77	0.570125	USD	12,188.58	J7a
IRS1001	5-May-03	P	[7002] IRS Income	SGD	-21,378.77	0.572689	USD	-12,243.39	J7b
IRS1001	5-May-03	P	[5008] FX Realised - Income	SGD	0.00	0.000000	USD	54.81	J7c
IRS1001	5-May-03	B	Cash	USD	-12,638.89	1.000000	USD	-12,638.89	J7d
IRS1001	5-May-03	P	[7003] IRS Expenses	USD	12,638.89	1.000000	USD	12,638.89	J7e

Note J7a: The realised foreign exchange loss on interest income is analyzed as follows:

	SGD	Rate+	USD
At Closing Rate	21,378.77	0.570125	12,188.58
At Average Date	21,378.77	0.572689	12,243.39
	Loss in exchange		-54.81

+ Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

Note J7b: The average multiplier rate between 3-Feb to 5-May is 0.572689. See Exchange Rates below.

J8 Final Settlement on IRS

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	3-Feb-06	B	Cash	SGD	21,613.70	0.564898	USD	12,209.54	J8a
IRS1001	3-Feb-06	P	[7002] IRS Income	SGD	-21,613.70	0.574810	USD	-12,423.78	J8b

TradeID	PostDate	B/P	Account	Ccy	Ccy Amount	Exc Rate	Ccy	Base Amount	Line
IRS1001	3-Feb-06	P	[5008] FX Realised - Income	SGD	0.00	0.000000	USD	214.24	J8c
IRS1001	3-Feb-06	B	Cash	USD	-12,777.78	1.000000	USD	-12,777.78	J8d
IRS1001	3-Feb-06	P	[7003] IRS Expenses	USD	12,777.78	1.000000	USD	12,777.78	J8e

Note J8b: **The average multiplier rate between 3-Nov to 3-Feb is 0.574810. See Exchange Rates below.**

Note J8c: **The realised foreign exchange loss on interest income is analyzed as follows:**

	SGD	Rate+	USD
At Closing Rate	21,613.70	0.564898	12,209.54
At Average Date	21,613.70	0.574810	12,423.78
	Loss in exchange		-214.24

+ Rates used for calculation are in full precision. Illustrated rates are rounded to 6dp.

EXCHANGE RATES

Our illustration assumes the company uses different daily exchange rates for accounting.

Average rates are computed by using the multiplier rate from trade/transaction currency to the base currency each day and averaging this over the relevant period.

The following rates were used for this illustration.

Spot Rate

Date	USD/SGD	SGD/USD*
3-Feb-03	1.762250	0.567456
28-Feb-03	1.757720	0.568919
31-Mar-03	1.731800	0.577434
30-Apr-03	1.780370	0.561681
5-May-03	1.754000	0.570125
1-Jun-03	1.754360	0.570008
3-Nov-05	1.743900	0.586720
3-Feb-06	1.770230	0.564898

Average

From Date	To Date	SGD/USD*
3-Feb-03	28-Feb-03	0.571584
3-Feb-03	31-Mar-03	0.571775
3-Feb-03	30-Apr-03	0.572554
3-Feb-03	5-May-03	0.572689
3-Nov-05	3-Feb-06	0.574810

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

FREQUENTLY ASKED QUESTIONS

RELATED INFORMATION

CHANGE HISTORY

Date	By	Changes
23-Aug-2008	CS	Creation.
13-Jun-2016	RJ	Reformatted.
6-May-2020	LT	Re-formatting.