# Forward FX Rate Calculation (W5)

<u>This version is superseded. Click here to view the latest quide.</u>

### **PURPOSE**

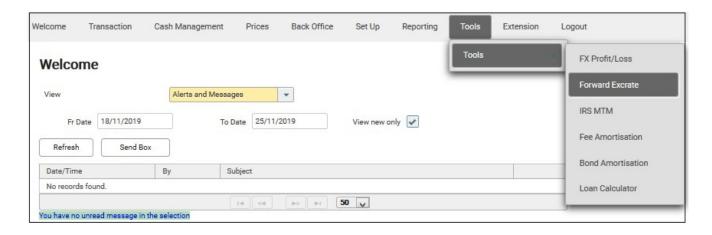
This document provides the formulae and detail computation used by CS Lucas for computing forward FX rate.

# WHY IS THIS IMPORTANT?

This allows users to verify the formula and methodology used by CS Lucas to compute the forward FX rate.

#### **PROCEDURE**

1. From the main menu, click Tools > Forward Excrate.



2. The following page displays.



3. Select the reporting as at date for MTM and the FX transaction's VDate. By default, it is the system date.

- 4. Select the FX transaction currencies.
- 5. Select the exchange rate to be used for computing FX forward rate. Exchange rate types are Valuation, Accounting and Alternative.
- 6. Click Recomp.

As At D	ate* 30/0	06/201	7		VDate*	10/11/2017		Ccy*	USD	*	SGD	+	Rate Type*	Valuation	*
Recom	р														
SD Point 2 May	2016	SGD	Point 1 Jan	2017											
Days	Mid		Days	Mid											
30	11.50		7	9.50											
			30	10.50											
			60	11.50											
			91	12.50											
			182	13.50											
			365	14.50											
33 days 50.98		133	days 12.96												
SD Fwd 30 Jun	2017			Spot	E	oints	Forward	Quote	in						
GD 1 Jan 2000				1.377300		12.96	1.378596	SG	D						
wd: USD - > SG	D	i		1.378596											
wd: SGD - > US	D			0.725376											

7. The system displays the computation for the FX forward rate.

Analysis for the interpolation of the FX forward points

As At Date: 30 Jun 2017

Swap points maintained as follows:

Days	Bid	Offer	Mid
1	-0.4	0.6	0.1
7	-1	-0.8	-0.9
30	-9.58	-4.58	-7.08
60	-13.8	-13	-13.4
91	-20	-19	-19.5
182	-40	-38	-39
365	-72.5	-66.5	-69.5
547	-124.88	-71.95	-98.415
730	-162.82	-87.82	-125.32

No. of days	Interpolated Fwd pts (mid)	Spot Rate	Fwd Rate
133	-28.5000	1.37670	1.37385

Total days from reporting as at date to transaction's value date = 133 days

Calculation for the interpolated forward points = (-39 - (-19.5)) / (182-91) \* (133-91) + (-19.5)

$$= -28.5$$

Spot rate is from exchange rate maintained on the reporting as at date, 30 Jun 2017. If no rate maintained, the last available rate will be used.

Fwd Rate = 1.37670 + (-28.5/10000)

= 1.37385

# FREQUENTLY ASKED QUESTIONS

## **RELATED INFORMATION**

FX MTM Specification

Creating and Maintaining Swap Points

<u>Maintaining Exchange Rate</u>

# **CHANGE HISTORY**

Date	Ву	Changes
15-Feb-2008	-	Created.
8-Sep-2017	TS	Reformatted. Rewritten.
25-Nov-2019	Lyra	Updated Screenshots.