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# PnL for FX Options 08/01/2020



# FXO\_Workflow sheet

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Workflow																			
2	1. Obtain the SENSI and PLVA tables from iWork and the DTD_PL amount.																			
3	2. Evaluate the DTD LCY breakdown of the PLVA table by Components and select the key Components contributing to 80-120% of the Total (the PLVA tab). Not required for further workflow.																			
4	3. Evaluate the DTD LCY breakdown of the SENSI table by Components and select the key Components contributing to 80-120% of the Total. For the 'Fx' Components and 'New deals' show the Product Type breakdown (the SENSI tab).																			
5	4. For New deals select the key Product Types making 80-120% of its PnL. For this subset select the key Instruments making 80-120% of the Pnl subtotal.																			
6	5. For Fx Delta select the key Currencies making 80-120% of its PnL. For this subset select the key Product Types with 90-110% of the Pnl subtotal.																			
7	6. For Fx Gamma/Smiles select the key Instruments making 80-120% of its PnL. For this subset select the key Product Types with 90-110% of the Pnl subtotal.																			
8	7. For Fx Vega select the key Quotations making 80-120% of its PnL. For each of these Quotations select the Tenor range with 90-110% of its Pnl total. For this subset select the key Product Types with 90-110% of the Pnl subtotal.																			
9																				
10																				

# PLVA sheet (not used for PnL commentary, hidden)

A	B	C	D	E	F
DTD PnL breakdown by Components:					
Component	DTD LCY				
New deals	651546.7				
Fx Delta	443501.1				
Knock	88509.57				
Fx Vega	88190.67				
Fixings	16277.87				
IR Delta	15201.9				
Unwind	2986.391				
IR Basis Del	1118.714				
Global other	0.003				
Models assi	0				
Translation	0				
Closing	0				
Cancel	0				
Financing C	-77.4				
Exercise	-812.18				
Expiry	-1537.37				
Cancel and	-5946.94				
Fx smiles	-14868.8				
Time Effect	-78226.8				
Selected components: New deals, Fx Delta.					

# FXO\_SENSI sheet

## 1. Breakdown by Components and Component-Product Type pairs:

A	B	C	D	E	F	G	H	I	J	K	L	M
DTD PnL breakdown by Components:												
Component	DTD LCY	Product Type - Component breakdown:										
New deals	651546.7	Product Type	Fx Delta	Fx Gamma	Fx Vega	Fx smiles	New deals	Total				
Fx Delta	239529.1	Simple Option	2100119	-192451	-647022	-63487	359063.9	1416838				
Fx Gamma	111949.2	Total	239529.1	111949.2	77378.13	-14868.8	651546.7	1100853				
Knock	88509.57	Flexible Deal	524896.2	24586.67	99052.49	6250.683	125831.9	702112.9				
Fx Vega	77378.13	Forex-Swap	637977						-4699.6	667904.5		
IR Delta	16316.68	Double Barrier	15074.43	32369.9	16609.35	10469.11	-4113.11	57601.34				
Fixings	16277.87	Loans/Depos	34791.18					5514.62	47868.32			
Unwind	2986.391	Best Of Option	6896.286						6896.286			
IR Basis Del	2358.965	Interest rate sw	100.8431						100.8431			
Futures Pri	0.000055	Basket Option	-49.7911						-49.7012			
Translation	0	Financing Cost							-77.4			
Models assi	0	Equity future	-356.339						-356.339			
Cancel	0	Exotic Option	0						-578.852			
Bond Price	-2.48974	Short future	-629.075						-629.075			
Financing C	-77.4	Strip of Simple O	-1654.61						-1667.57			
Exercise	-812.18	Currency swap	-2382.25						-2382.25			
Expiry	-1537.37	Bonds	-40085.5					0	-47745.5			
IR Gamma	-4527.3	Asian Option	-47901						-47900			
Cancel and	-5946.94	Simple cash flo	-110867						0	-112955		
Fx smiles	-14868.8	Simple Barrier	-1745651	274522.7	1136556	-41346	220352	-271892				
Time Effect	-78226.8	Touch rebate	8857.082	-27079.2	-527817	73244.44	-39384.7	-440667				
		Spot-Forward	-1139606						-11018.4	-871569		
Selected components: New deals, Fx Delta.												

# Fx Delta sheet

## 1. Breakdowns by Currency and Product Type:

A	B	C	D	E	F	G	H	I	J	K	L	M
DTD PnL and exposure breakdown by PL Currency						DTD PnL and exposure breakdown by Product Type						
PL Currency	DTD LCY	Insi Risk (OCY)				Product Typ	DTD LCY	Insi Risk (OCY)				
HKD	91460.97	-8.7E+08				Simple Opt	2100119	1.73E+11				
USD	62164.11	30422846				Forex-Swap	637977	5.46E+09				
KRW	33108.88	-7.1E+09				Flexible Del	524896.2	8.4E+08				
AUD	29760	-7227200				Loans/Depo	34791.18	79172508				
THB	25753.28	-1.1E+08				Double Bar	15074.43	-1.9E+09				
ID2	19839.9	-1.7E+11				Touch reba	8857.082	1.65E+10				
EUR	14273.67	-2297810				Best Of Opt	6896.286	36001502				
XAU	11499.97	436.0223				Interest rat	100.8431	49276.33				
PHP	6642.684	-3.2E+08				Exotic Opti	0	1183682				
INR	4087.662	1.11E+08				Basket Opti	-49.7911	-24287.4				
XAG	1670.699	4554.267				Equity futu	-356.339	-2591102				
TWD	874.3076	-1.3E+08				Short futur	-629.075	-307394				
JPY	307.2218	1.7E+09				Strip of Sim	-1654.61	-1004875				
SEK	0.324002	-0.02				Currency sw	-2382.25	-1164071				
IDR	0.021936	41.00006				Bonds	-40085.5	-7.6E+07				
MYR	0.017343	-0.16				Asian Optic	-47901	-2.3E+07				
CN2	0	0				Simple cash	-110867	3.08E+08				
MY1	-0.00125	1E-08				Spot-Forwa	-1139606	-3.5E+11				
KR1	-0.02281	599.99				Simple Barri	-1745651	-1.5E+10				
CNY	-4.64868	48767.44										
ZAR	-14.0157	20786.99										
MY2	-20.1558	-2.8E-08										
CNH	-866.255	5671139										
NZD	-1755.74	4347547										
CAD	-18688.5	9716245										
GBP	-19431.1	3347151										
CHF	-21134.2	7376096										
Total DTD LCY from Fx Delta: 239529.10												
Product Type selection: Simple Option, Simple Barrier, Spot-Forward.												
Total DTD LCY from Fx Delta: 239529.10												
PL Currency selection: HKD, USD, KRW.												

# Fx Delta sheet (cont'd)

## 1. Selection of Currency - Product Type pairs:

Currency-Product Type breakdown for Fx Delta:																												
PL	Currency	Asian Options	Basket Options	est Of Option	Bonds	currency swapable Barri	equity future	flexible Dea	Forex-Swap	rest rate swans/Depos	short future	imple Barrie	imple Option	iple cash fl	pot-Forward	Simple O	Touch rebat	Total										
	Total	-47901	-49.7911	6896.286	-40085.5	-2382.25	15074.43	-356.339	524896.2	637977	100.8431	34791.18	-629.075	-1745651	2100119	-110867	-1139606	-1654.61	8857.082	239529.1								
	HKD				-2.85808	271.8067		-1.00725	248.5795	0.091642	-204347		-556.424		1188.918	335108.3	557.4766	-41039.5	13.92149	18.88446	91460.97							
	USD	-46639.2	-49.7911	11343.46	-51534.9	-2382.25	9018.361	-604.918	279608.6	1012694	100.8431	68497.09	-629.075	-426805	4779634	-108875	-5481890	-1928.79	22607.5	62164.11								
	KRW													1.224943	527937.9	-14.5765	-494817		1.183876	33108.88								
	AUD			-2431.98	5245.101		-1137.95		967.9823	-9501.27		-23147		-365733	-1806419	-10822.8	2248661	260.2587	-6181.39	29760								
	THB									-13782.8				-14.2153	17259.67	-7907.99	30200.24		-1.64382	25753.28								
	ID2														-31959.6	51799.5				19839.9								
	EUR	-1063.22		276.9518	3274.504		5289.245		-207.865	-1397.19		-2828.8		-699438	-604486	16287.45	1324467		-25900.5	14273.67								
	XAU						-9690.12		324808.8	-8.63682				112561.8	-64868	0.527505	-349239		-2065.82	11499.97								
	PHP														-40321.3	44.01583	46919.93			6642.684								
	INR														-175.829	-77388.4	81651.92			4087.662								
	XAG														35439.7	8268.828		-42036.4		1670.699								
	TWD															4314.957	-48.7925	-3391.86		874.3076								
	JPY		1.440523	-2.21121		29.85114		26.80764	65.27411		0.039213		-203.775	1869.306	-447.735	-1168.44		136.6679	307.2218									
	SEK															3.32679	-0.23504	-2.32876		0.324002								
	IDR															-0.35818	0.354493	0.111193		0.021936								
	MYR															-0.32757	0.372565	-0.02765		0.017343								
	CN2												0		-54.8907		0	54.89071		0								
	MY1														-10.8878			-0.01517	10.90169		-0.00125							
	KR1						-0.37096									-255.109	-356.368	0.887962	610.9369		-0.02281							
	CNY															54.89071	11.4074	-16.2127	-54.7341		9.5E-07	4.64868						
	ZAR									398.7439							-0.31759	0.178945	-412.621		-14.0157							
	MY2															-4.94716	185.8033	-348.231	136.4322		10.78676	-20.1558						
	CNH			-28.6342	119.5524				-31798.9	-122893			-5145.9		302.8332	-936173	633.4123	1094099		18.65093	-866.255							
	NZD			-41.6329	300.0075		-6.3297		-219.256	-0.4107		-438.251		-4400.14	-23588.6	-281.086	27032.49		-112.502	-1755.74								
	CAD			-1085.46	759.7385		0.031861		-7292.44	152.4085		-260.016		-12103.3	25052.65	-42.1032	-23896.5		26.47804	-18688.5								
	GBP	-198.557		-1135.01	1480.894		-1206.14		-23776	-271.302		-1319.04		-160491	-7099.9	431.5428	169494.7		4658.598	-19431.1								
	CHF							12778.86	-17221.7	-23129.2		0.381455		-225521	-6866.16	-18.2578	223202.5		15640.21	-21134.2								



Selected Product Types for Currencies in ('HKD', 'USD', 'KRW'): Spot-Forward, Simple Option, Forex-Swap.

# Fx Gamma sheet

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
DTD LCY breakdown for Fx Gamma														
PL Currency	Instrument	CYDouble Bar	CYFlexible	CYSimple Bar	CYSimple Opt	CYTouch reba	TD LCY-Tot:	(OCY)Double Bar	(OCY)Flexible	(OCY)Simple Bar	(OCY)Simple Opt	(OCY)Touch reba	Risk (OCY)-Total	
USD	USD/XAU	-79.1888	3437.997	44443.28	-27295	-274.891	20232.18	-4.81505	209.0465	2702.362	-1659.67	-16.7147	1230.212	
USD	USD/KRW	0	0	0	19592.61	0	19592.61	0	0	0	2.1E+10	0	2.1E+10	
HKD	USD/HKD	0	0	0	14957.47	0.012769	14957.48	0	0	0	5.94E+08	506.8744	5.94E+08	
HKD	HKD/AUD	0	0	0	13248.32	0	13248.32	0	0	0	19613410	0	19613410	
USD	USD/EUR	31781.93	2664.413	72392.82	-81041.7	-16245.6	9551.836	24878492	2085669	56668180	-6.3E+07	-1.3E+07	7477056	
JPY	JPY/AUD	0	513.2885	2782.539	5486.766	-30.3566	8752.237	0	564632.7	3060876	6035606	-33393.1	9627722	
SGD	SGD/EUR	428.4383	0	1873.687	3408.417	0	5710.543	841283.5	0	3679181	6692784	0	11213248	
CHF	USD/CHF	204.0979	416.4027	6674.746	-2827.33	-799.189	3668.723	711684	1451985	23274657	-9858837	-2786751	12792738	
JPY	EUR/JPY	92.25637	978.1002	47614.93	-40785.1	-4284.46	3615.75	72224.29	765720.6	37276065	-3.2E+07	-3354157	2830645	
USD	USD/XAG	0	0	3242.152	158.9993	0	3401.151	0	0	11815.26	579.4356	0	12394.7	
HKD	HKD/EUR	0	0	0	3017.551	0	3017.551	0	0	0	3255474	0	3255474	
CAD	USD/CAD	0	241.6686	300.9602	1854.177	0	2396.806	0	1046772	1303590	8031249	0	10381611	
USD	USD/CNH	0	0	3.088498	1809.692	0	1812.781	0	0	505394.7	2.96E+08	0	2.97E+08	
NZD	AUD/NZD	62.65856	78.98904	440.7759	1107.266	0	1689.689	85423.27	107686.8	600915.8	1509550	0	2303576	
JPY	JPY/CHF	0	0	0	1686.351	0	1686.351	0	0	0	5711314	0	5711314	
SGD	SGD/JPY	56.76914	0	542.3963	1032.948	0	1632.114	39493561	0	3.77E+08	7.19E+08	0	1.14E+09	
JPY	JPY/GBP	0	161.3042	329.9921	1027.609	0	1518.905	0	170504.3	348813.5	1086219	0	1605537	
CAD	CAD/AUD	0	66.22646	21.7667	1330.949	0	1418.942	0	215207.1	70732.27	4325002	0	4610941	
USD	USD/INR	0	0	6.282404	1101.25	0	1107.532	0	0	1753168	3.07E+08	0	3.09E+08	
CNH	AUD/CNH	0	0	0	976.9611	0	976.9611	0	0	0	1594684	0	1594684	
USD	USD/GBP	0	1435.395	2475.298	-3154.47	0	756.2272	0	1517113	2616219	-3334052	0	799279.9	
HKD	HKD/GBP	0	0	0	533.217	0	533.217	0	0	0	852897	0	852897	
SGD	SGD/HKD	0	0	0	528.5251	0	528.5251	0	0	0	73759192	0	73759192	
USD	USD/DWD	0	0	0	197.7507	0	197.7507	0	0	0	5.04E+08	0	5.04E+08	

Total DTD LCY from Fx Gamma: 111949.24

Selected Instrument(s): USD/XAU, USD/KRW, USD/HKD.

Product Types for Fx Gamma Instruments USD/XAU, USD/KRW, USD/HKD:

Product Type DTD LCY

Simple Bar 44443.28

Simple Opt 7255.066

Flexible De 3437.997

Double Bar -79.1888

Touch reba -274.879

Selected PL Currency, Instrument:

USD/XAU, USD/KRW, USD/HKD,

Simple Barrier, Simple Option.

# Fx Smiles sheet

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
DTD LCY breakdown for Fx smiles														
PL Currency	Instrument	CYDouble	CYFlexible	CYSimple	CYSimple	CYTouch re	TD LCY-Tot.	(OCY)Doub	k (OCY)Flex	k (OCY)Simp	k (OCY)Simp	k (OCY)Touch	Risk (OCY)-Total	
HKD	USD/HKD	0	0	0	-30954	0	-30954	0	0	0	0	0	0	0
USD	USD/CNH	0	0	-17.5484	-12387.9	0	-12405.4	0	0	0	0	0	0	0
SGD	USD/SGD	0	4392.007	6427.87	-20994	0	-10174.2	0	0	0	0	0	0	0
JPY	EUR/JPY	0	-30.6642	0	-2655.92	0	-2686.58	0	0	0	0	0	0	0
SGD	SGD/JPY	0	0	0	-2470.88	0	-2470.88	0	0	0	0	0	0	0
HKD	HKD/AUD	0	0	0	-1519.61	0	-1519.61	0	0	0	0	0	0	0
IPV	IPV/ΔIID	0	25.7588	0	-1079.21	0	-1043.46	0	0	0	0	0	0	0

USD	USD/GBP	0	-1130.73	-1683.42	8460.019	0	5645.862	0	0	0	0	0	0	0
USD	USD/AUD	268.524	606.9903	17354.09	-1568.85	-7219.08	9441.682	0	0	0	0	0	0	0
JPY	USD/JPY	9401.441	99.492	-57882.2	-21614.7	80627.04	10631.03	0	0	0	0	0	0	0
USD	USD/ID2	0	0	0	13326.09	0	13326.09	0	0	0	0	0	0	0

Total DTD LCY from Fx smiles: -14868.75

Selected Instrument(s): USD/ID2, USD/HKD.

Product Types for Fx smiles Instruments USD/ID2, USD/HKD:

Product Type	DTD LCY
Simple Opt	-17627.9

Selected PL Currency, Instrument:

USD/ID2, USD/HKD,

Simple Option.



# Fx Vega sheet

A	B	C	D	E	F	G	H	I	J	K	L	M	N
DTD LCY breakdown for Fx Vega across Quotation:												Total DTD LCY from Fx Vega: 77378.13	
												Selected Quotation(s): AUD-HKD, ID2-USD, CNH-USD.	
Quotation	DTD LCY												
AUD-HKD	28458.48												
ID2-USD	28293.46												
CNH-USD	26614.35												
AUD-JPY	25441.2												
JPY-SGD	25202.38												
XAU-USD	20860.18												
EUR-JPY	17542.15												
USD-HKD	16446.83												
GBP-USD	10741.82												
XAG-USD	9606.099												
EUR-AUD	9534.606												
JPY-HKD	8962.878												
CHF-JPY	6421.694												
INR-USD	5980.146												
NZD-USD	4638.061												
GBP-JPY	4534.142												
AUD-SGD	3808.003												
AUD-CNH	3662.027												
PHP-USD	3377.257												
NZD-JPY	3060.685												
JPY-CNH	2943.322												
CNH-SGD	2875.2												
EUR-USD	2183.834												
NZD-CAD	1602.316												
AUD-CAD	1341.057												
GBP-AUD	847.0856												
AUD-CHF	696.79												
KRW-USD	613.0069												
GBP-HKD	565.0525												
USD-CAD	507.6541												
AUD-NZD	482.8803												
NZD-SGD	466.4589												
Total DTD LCY from ID2-USD: 28293.46												Selected Tenor range: 4Y-7Y, average rate: 17.64, amount at risk: 105145	

Quotation	Tenor	Rate_move	DTD LCY	nsi Risk (OC)	ord
CNH-USD	O/N	1.4575	379.3	192.7455	1
CNH-USD	1W	1.1925	-7671.61	-4764.73	3
CNH-USD	2W	0.7175	45707.37	47181.78	4
CNH-USD	1M	0.405	-40990.6	-74961.6	5
CNH-USD	2M	0.315	64955.51	152726.8	6
CNH-USD	3M	0.255	43413.09	126092.8	7
CNH-USD	6M	0.225	180822.3	595222.5	10
CNH-USD	1Y	0.21	-432205	-1524334	16
CNH-USD	2Y	0.155	172203.7	822850.3	17

Total DTD LCY from CNH-USD: 26614.35

Selected Tenor range: 2M-2Y, average rate: 23.2, amount at risk: 172558

Product Types for the selected AUD-HKD, ID2-USD, CNH-USD:

Product Typ	DTD LCY
Simple Opt	83179.72
Simple Bar	186.5816

Selected Product Type(s): Simple Option.



# FXO\_Commentary sheet

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	AA																																		
<b>SUMMARY</b>																																																											
Selection Table:																																																											
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