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Eurex

Advanced Volatility Strategies with Futures on VSTOXX® Options

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EX EUREX

Advanced Volatility Strategies

Actionable Strategies VSTOXX® Options

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About Tariq Dennison TEP CFP^{CM}

- Independent Advisor Managing Accounts on the IBKR platform
 - US Advisor: GFM Asset Management LLC
 - HK Advisor: GFM Group Limited
- In the market since 1998
 - Commerzbank (NY, London, Frankfurt)
 - Bear Stearns (NY)
 - J.P. Morgan (NY)
 - Canadian Imperial Bank of Commerce
 - Societe Generale (HK)
- Masters in Financial Engineering
 - University of California at Berkeley
- Lecturer at ESSEC Singapore
 - Fixed Income
 - Alternative Assets
- Focus on US-Asia corridor
- Author “Invest Outside the Box”



VSTOXX® Options Workings

- What are the VSTOXX vs VIX Options?
- Contract specs
- Margin requirements of calls vs puts
- Sample option chains

Sample Strategies

- Outright call/put buy
- Outright call/put sell
- Vertical spread and 1x2
- Calendar spread
- VSTOXX vs VIX spread

This is an "advanced" webinar, where I assume:

- You already understand what the VSTOXX® and VIX® are, how they are calculated, and what makes them go up and down.
- You understand VSTOXX® and VIX® futures, their term structures, and how/why differences between futures prices and index levels can be significant.
- You understand and have some experience with options, option trading, and option risks
- This will let us focus on some unique features of these options on an index of options you may or may not have thought of, and on a few specific strategies.

About VSTOXX® Options

Typing in “V2TX” vs “VIX”

VSTOXX Volatility Index - DTB

- Futures
- Futures Options**
- Structured Products
- Combinations
- Index

Search by company name

[View Popular Products](#)

CBOE Volatility Index - CBOE

- Index
- Futures
- Options**
- Structured Products
- Combinations

Search by company name

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Source: Interactive Brokers

V2TX Futures on IBKR Mosaic on Oct 22nd

		LAST	CHANGE		VLM
V2TX INDEX	◆	16.17	-0.58	-3.46%	1.23K
V2TX Nov17'21 @DTB	◆	19.55	-0.45	-2.25%	4.28K
V2TX Dec22'21 @DTB	◆	20.40	-0.35	-1.69%	1.22K
V2TX Jan19'22 @DTB	◆	21.70	-0.35	-1.59%	211
V2TX Feb16'22 @DTB	◆	22.25	-0.15	-0.67%	185
V2TX Mar15'22 @DTB	◆	c24.10			
V2TX Apr20'22 @DTB	◆	c24.35			
V2TX May18'22 @DTB	◆	c24.10			
V2TX Jun15'22 @DTB	◆	c0.00			

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Source: Interactive Brokers

V2TX Nov Option Chain Oct 22nd

PUT/CALLs (Side by Side) ▾												19.55		-0.45 (-2.25%)		? ⚙️ 🔗											
NOV / NOV 26 DAYS			DEC / DEC 61 DAYS			JAN'22 / JAN'22 89 DAYS			FEB'22 / FEB'22 117 DAYS			MORE ▾		TABBED VIEW ▾		PUT/CALL ▾		All STRIKES ▾		DTB ▾		OVS2 ▾		100			
CALLS										PUTS														IV: 89.2%			
OPTN ...	VOLUME	BID	SI...	BID x ASK	DELTA	IMPLD	...ASK	SI...	STRIKE	OPTN ...	VOLUME	BID	SI...	BID x ASK	DELTA	IMPLD	...ASK	SI...									
				x	0.967				15					x 0.075	-0.033			1									
				x	0.946	60.1%			15.5					1,300	0.025	x 0.125	-0.053	54.6%	1,300								
		750		3.425 x 3.925	0.911	63.8%		750	16					2,050	0.075	x 0.200	-0.089	58.7%	751								
		750		3.100 x 3.550	0.868	65.3%		750	16.5					1,250	0.175	x 0.325	-0.132	62.8%	1,250								
		750		2.750 x 3.150	0.814	69.8%		750	17					1	1,150	0.325	x 0.475	-0.186	65.6%	1,150							
		750		2.500 x 2.850	0.758	74%		750	17.5					10	1,100	0.525	x 0.675	-0.241	69.9%	1,100							
		1,050		2.325 x 2.425	0.699	76.3%		1	18					1,050	0.775	x 0.925	-0.301	74.5%	1,050								
		1,050		2.125 x 2.325	0.643	80.8%		1,050	18.5					1,050	1.075	x 1.225	-0.356	79.8%	1,050								
		1,000		1.925 x 2.125	0.594	83.3%		1,000	19					1,000	1.375	x 1.575	-0.405	83.5%	1,000								
		1,000		1.775 x 1.975	0.551	88.3%		1,000	19.5					1,000	1.725	x 1.925	-0.449	88.2%	1,000								
		1,000		1.675 x 1.875	0.511	93.8%		1,000	20					1,000	2.125	x 2.275	-0.489	92.2%	1,000								
		1,000		1.575 x 1.725	0.477	97.3%		1,000	20.5					1,000	2.475	x 2.675	-0.523	96%	1,000								
		1,000		1.475 x 1.625	0.445	100.9%		1,000	21					1,000	2.875	x 3.075	-0.555	99.7%	1,000								
		950		1.375 x 1.525	0.417	104.1%		950	21.5					950	3.275	x 3.475	-0.583	103.5%	950								
	10	950		1.275 x 1.425	0.390	106.7%		950	22					950	3.675	x 3.875	-0.610	105.3%	950								
		1,500		1.100 x 1.375	0.363	108%		1,750	22.5					950	4.075	x 4.325	-0.637	108.1%	950								
		2,500		1.025 x 1.275	0.341	109.5%		950	23					950	4.525	x 4.725	-0.658	111.1%	950								
		750		0.975 x 1.225	0.322	113.4%		2,500	23.5					950	4.925	x 5.175	-0.677	113.4%	950								
		750		0.900 x 1.125	0.302	114.6%		950	24					950	5.375	x 5.625	-0.697	116.5%	950								
		1,750		0.825 x 1.075	0.286	117.1%		950	24.5					950	5.825	x 6.025	-0.714	117.4%	950								
		1,750		0.775 x 1.025	0.269	119.7%		950	25					950	6.275	x 6.475	-0.731	119.9%	950								
		2,500		0.725 x 0.975	0.255	120.6%		950	25.5					950	6.725	x 6.975	-0.745	124.1%	950								
		1,700		0.675 x 0.925	0.242	121.9%		950	26					950	7.175	x 7.425	-0.757	125.2%	950								
		750		0.650 x 0.875	0.229	125%		900	26.5					750	7.175	x 8.250	-0.770	124.6%	750								
OFF Strategy Builder																											

OFF Strategy Builder

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Source: Interactive Brokers

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V2TX Jan '22 Option Chain Oct 22nd

PUT/CALLS (Side by Side)

19.55

-0.45 (-2.25%)

NOV / NOV
26 DAYS

DEC / DEC
61 DAYS

JAN'22 / JAN'22
89 DAYS

FEB'22 / FEB'22
117 DAYS

MORE

TABBED VIEW

PUT/CALL

All STRIKES

DTB

OVS2

100

CALLS

IV: 79.1%

OPTN ... VOLUME

BID

SI...

BID x ASK

DELTA IMPLD ... ASK S...

STRIKE

OPTN ... VOLUME

BID

SI...

BID x ASK

DELTA IMPLD ... ASK S...

STRIKE

x

0.985

12.5

x

0.984

13

x

0.982

13.5

x

0.972

14

x

0.957

14.5

x

0.938

15

750

♦

5.650 x 6.475

♦

0.891

55.3%

750

16

750

♦

4.975 x 5.700

♦

0.833

59.4%

750

17

750

♦

4.475 x 5.125

♦

0.772

64.5%

750

18

1,050

♦

4.025 x 4.550

♦

0.713

68.3%

1,800

19

3,401

♦

3.650 x 4.150

♦

0.657

72.3%

1,100

20

750

♦

3.475 x 3.775

♦

0.608

77.6%

2,600

21

750

♦

3.150 x 3.500

♦

0.563

80.9%

2,600

22

750

♦

2.875 x 3.200

♦

0.525

83.1%

750

23

750

♦

2.625 x 2.950

♦

0.488

85.8%

750

24

750

♦

2.425 x 2.750

♦

0.456

88.4%

2,301

25

3,051

♦

2.275 x 2.600

♦

0.428

91.5%

3,051

26

2,301

♦

2.150 x 2.425

♦

0.403

93.4%

750

27

750

♦

2.025 x 2.275

♦

0.380

95%

750

28

750

♦

1.900 x 2.150

♦

0.360

98.6%

750

29

2,300

♦

1.775 x 2.075

♦

0.340

100.1%

2,300

30

2,300

♦

1.575 x 1.875

♦

0.307

103.2%

2,300

32

2,300

♦

1.400 x 1.700

♦

0.279

106.8%

2,300

34

1,500

♦

1.250 x 1.550

♦

0.251

109.4%

1,500

36

x

0.125

-0.013

2,000

x

0.150

-0.014

1,850

x

0.075

-0.016

2

x

0.100

-0.026

1

x

0.175

-0.041

1

1,850

♦

0.050 x 0.200

♦

-0.061

49.4%

1

2,400

♦

0.250 x 0.450

♦

-0.108

55.6%

1

1,400

♦

0.550 x 0.800

♦

-0.165

60.4%

2,950

2,000

♦

0.950 x 1.225

♦

-0.226

64.6%

2,801

1,900

♦

1.425 x 1.725

♦

-0.285

68.4%

750

2,301

♦

2.025 x 2.325

♦

-0.341

72.3%

2,301

3,351

♦

2.650 x 3.025

♦

-0.391

75.7%

2,301

750

♦

3.450 x 3.800

♦

-0.435

80.9%

2,600

1,750

♦

4.100 x 4.575

♦

-0.473

82.8%

1,000

1,000

♦

4.875 x 5.400

♦

-0.510

86.3%

1,800

1,000

♦

5.675 x 6.200

♦

-0.542

89%

1,000

1,000

♦

6.500 x 7.050

♦

-0.570

91.8%

1,000

1,000

♦

7.350 x 7.900

♦

-0.595

93.8%

1,000

1,000

♦

8.200 x 8.750

♦

-0.618

95.6%

1,000

1,000

♦

9.050 x 9.625

♦

-0.639

98.1%

1,000

1,000

♦

9.950 x 10.500

♦

-0.658

99%

1,000

1,000

♦

11.725 x 12.300

♦

-0.691

102.9%

1,000

750

♦

12.950 x 14.800

♦

-0.719

106.7%

2,300

750

♦

14.675 x 16.750

♦

-0.747

109.7%

750

OFF

Strategy Builder

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Sample VSTOXX Call Buy

Order Confirmation

VSTOXX Volatility Index

Financial Instrument	Bid	Ask	Last
V2TX FOP (OVS2) Jan19'22 30 CALL ...	1.775	2.075	c2.025

Order Description

BUY 1

Order Type LMT	Routing DTB	Time in Force DAY
Limit Price 1.500	Clearing IB	

Messages

Amount	Balances (in USD)
Amount 150 EUR	Current Change Post-trade*
Commission (est.) 1.21 EUR	Equity with Loan 155,229 -1 155,228
Total 151.21 EUR	Initial Margin 40,288 224 40,512
<input type="checkbox"/> Performance Profile	Maintenance Margin 33,024 224 33,248
	Position 0 1 1

*This is a current projection and is subject to change.
[Margin Requirements Per Contract](#)

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Override and Transmit

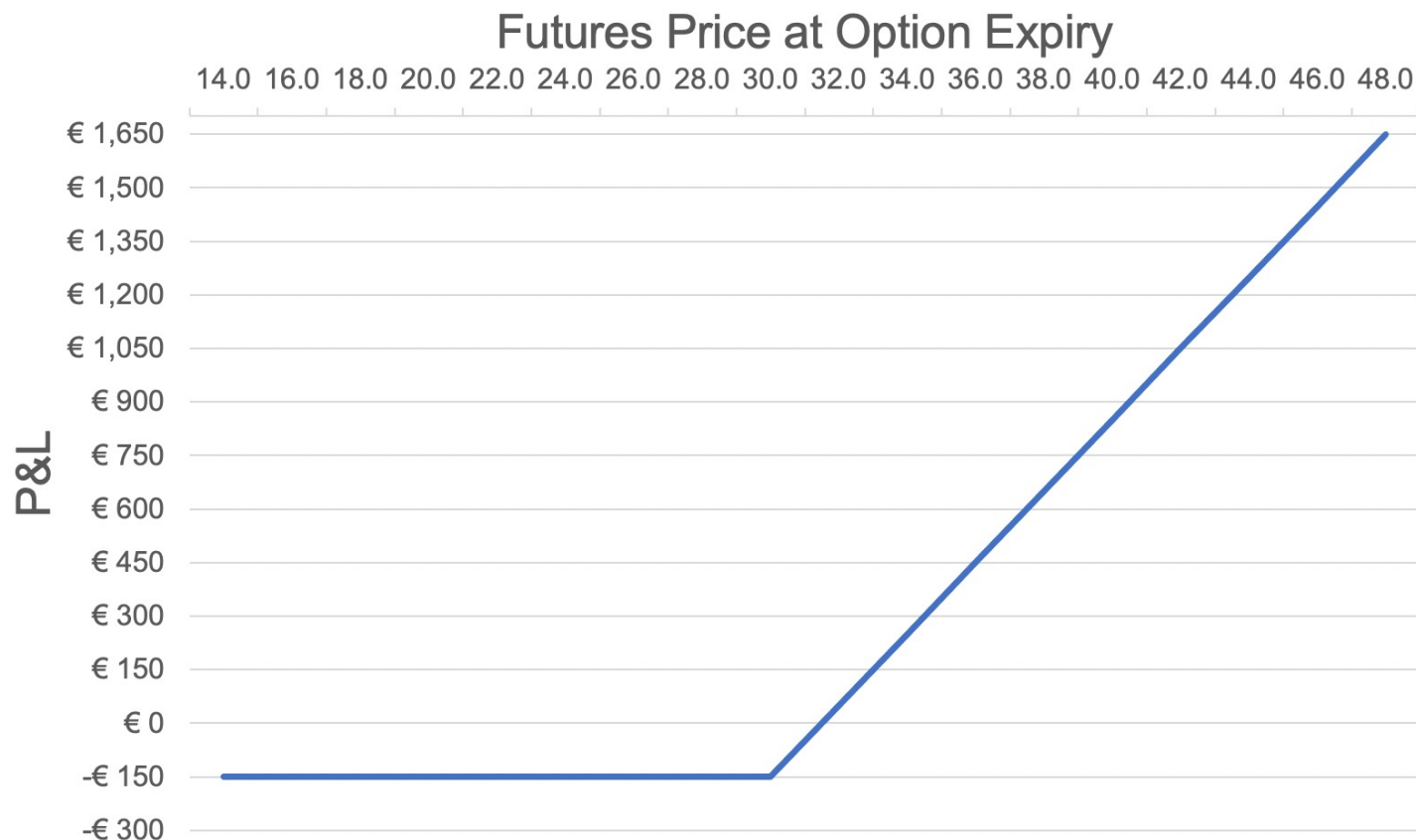
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Sample VSTOXX Call Buy (30 call @1.5)

Final Level	P&L
14.0	€ (150)
16.0	€ (150)
18.0	€ (150)
20.0	€ (150)
22.0	€ (150)
24.0	€ (150)
26.0	€ (150)
28.0	€ (150)
30.0	€ (150)
32.0	€ 50
34.0	€ 250
36.0	€ 450
38.0	€ 650
40.0	€ 850
42.0	€ 1,050
44.0	€ 1,250
46.0	€ 1,450
48.0	€ 1,650



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Sample VSTOXX Call Sell

Order Confirmation

VSTOXX Volatility Index

Financial Instrument	Bid	Ask	Last
V2TX FOP (OVS2) Jan19'22 30 CALL ...	1.775	2.075	c2.025

Order Description

SELL 1

Order Type LMT	Routing DTB	Time in Force DAY
Limit Price 2.400	Clearing IB	

Messages

Amount	Balances (in USD)
Amount 240 EUR	Current Change Post-trade*
Commission (est.) 1.21 EUR	Equity with Loan 155,221 -1 155,220
Total 238.79 EUR	Initial Margin 40,286 922 41,209
<input type="checkbox"/> Performance Profile	Maintenance Margin 33,023 738 33,761
	Position 0 -1 -1

*This is a current projection and is subject to change.
[Margin Requirements Per Contract](#)

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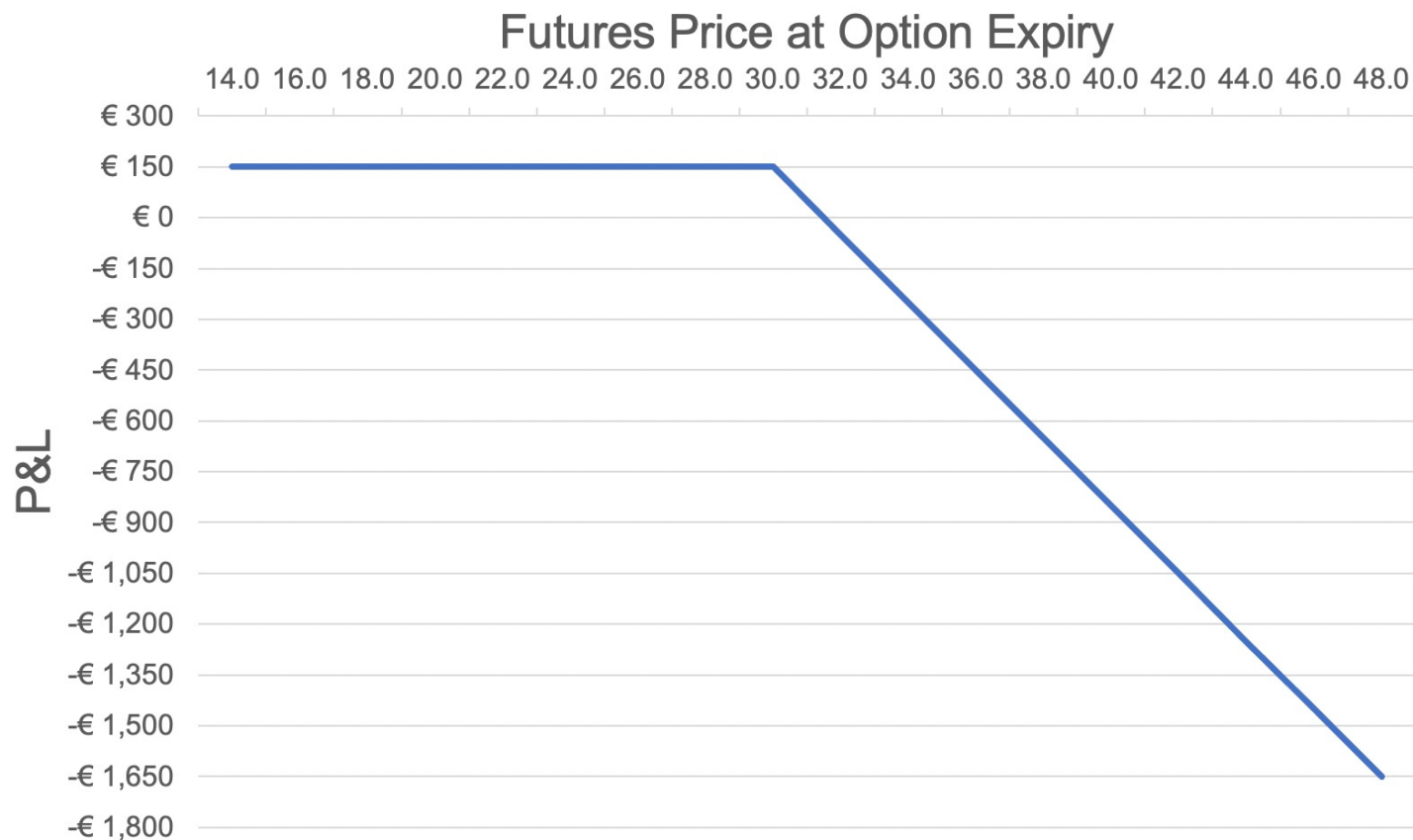
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Sample VSTOXX Call Sell (30 call @1.5)

Final Level	P&L
14.0	€ 150
16.0	€ 150
18.0	€ 150
20.0	€ 150
22.0	€ 150
24.0	€ 150
26.0	€ 150
28.0	€ 150
30.0	€ 150
32.0	€ (50)
34.0	€ (250)
36.0	€ (450)
38.0	€ (650)
40.0	€ (850)
42.0	€ (1,050)
44.0	€ (1,250)
46.0	€ (1,450)
48.0	€ (1,650)



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Sample VSTOXX Put Sell

Order Confirmation

Quote Panel

Financial Instrument	Bid	Ask	Last
V2TX FOP (OVS2) Jan19'22 30 PUT ...	♦ 9.925	10.500 ♦	♦ c9.975

Order Description

SELL 1

Order Type LMT	Routing DTB	Time in Force DAY
Limit Price 12.500	Clearing IB	

Messages

Amount		Balances (in USD)	Current	Change	Post-trade*
Amount	1,250 EUR	Equity with Loan	155,201	-1	155,200
Commission (est.)	1.21 EUR	Initial Margin	40,282	766	41,048
Total	1,248.79 EUR	Maintenance Margin	33,020	612	33,632
	<input type="checkbox"/> Performance Profile	Position	0	-1	-1

*This is a current projection and is subject to change.
[Margin Requirements Per Contract](#)

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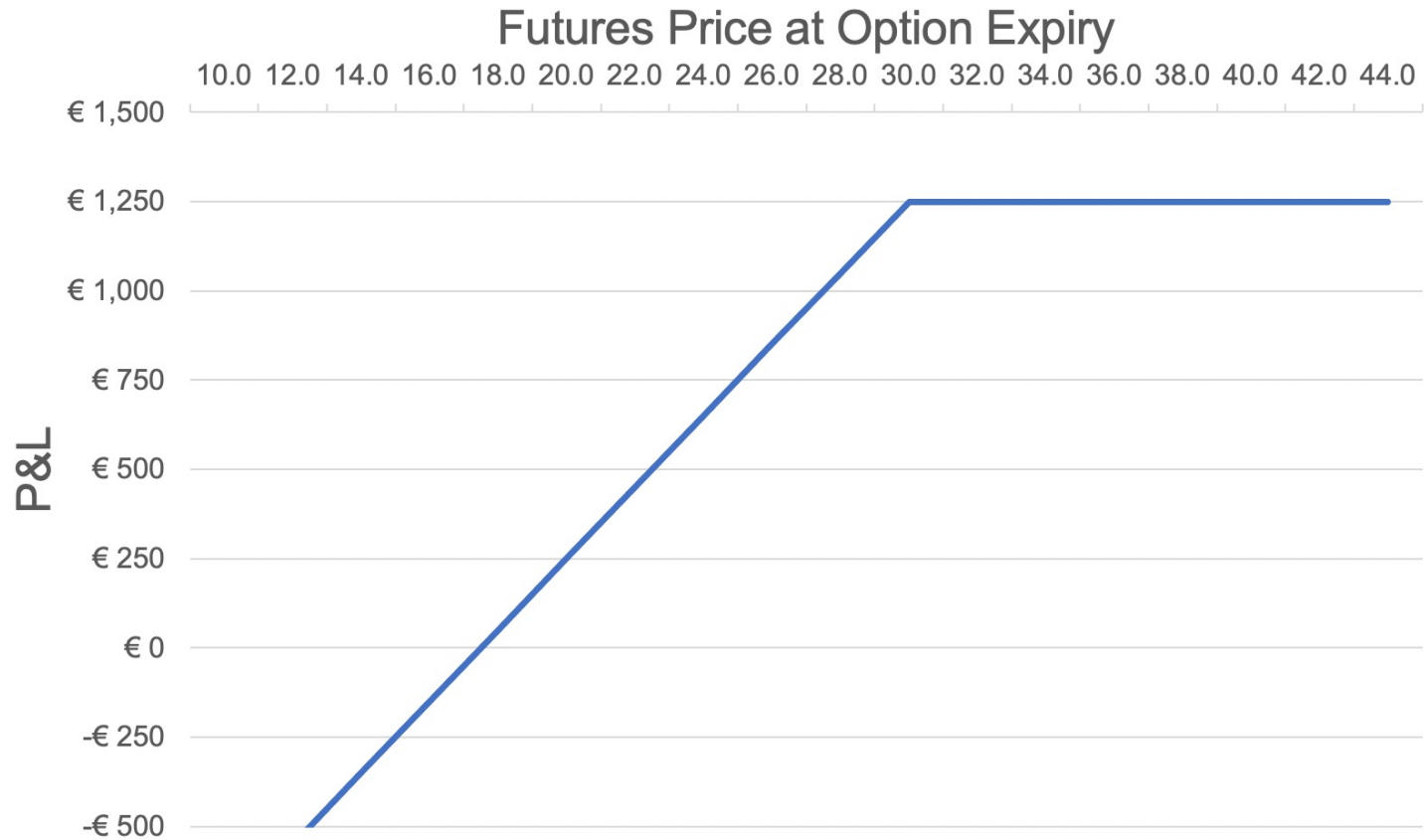
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Sample VSTOXX Put Sell (30 put @12.5)

(Note this looks like a covered call, but simpler)

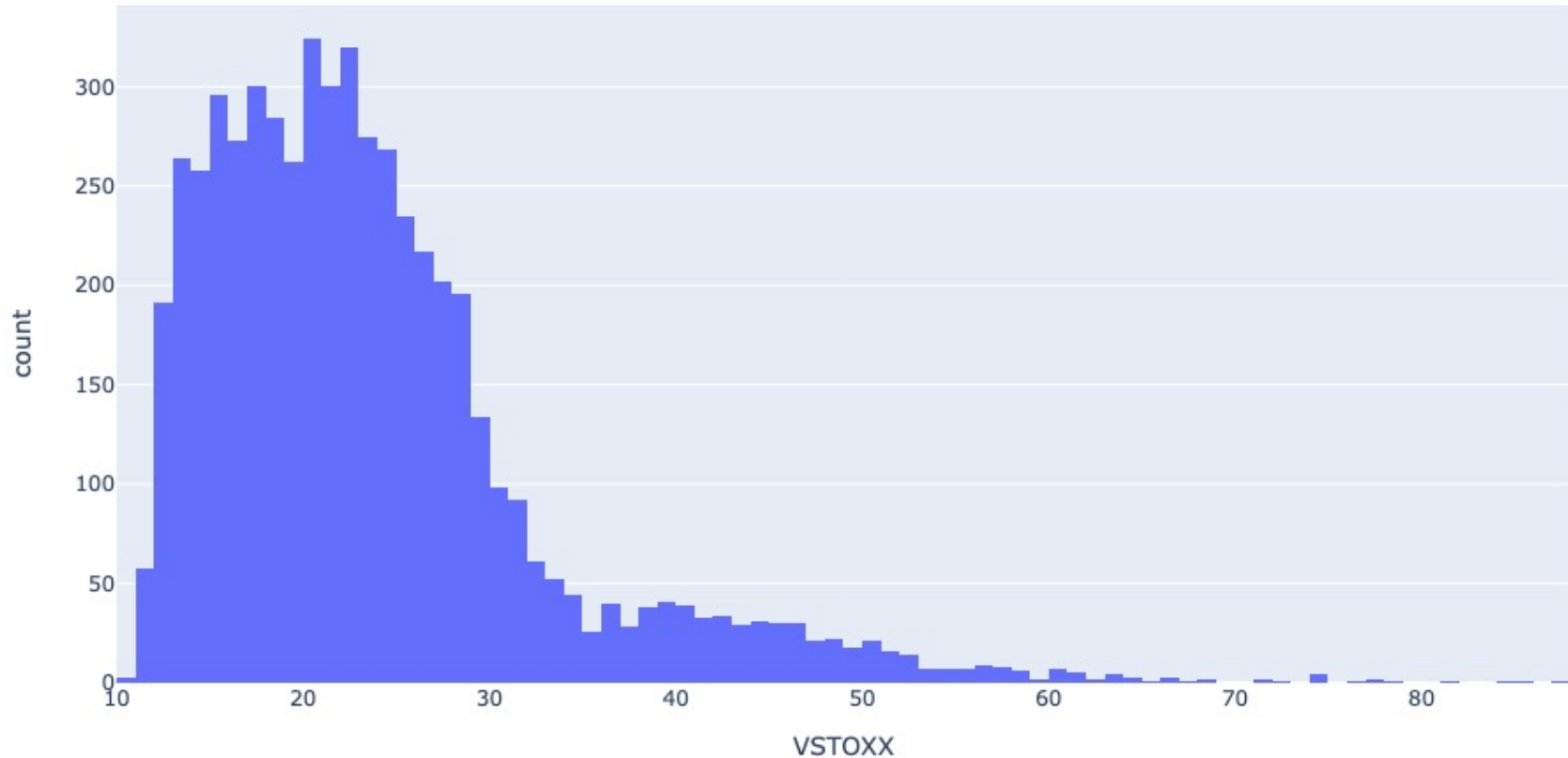
Final Level	P&L
10.0	€ (750)
12.0	€ (550)
14.0	€ (350)
16.0	€ (150)
18.0	€ 50
20.0	€ 250
22.0	€ 450
24.0	€ 650
26.0	€ 850
28.0	€ 1,050
30.0	€ 1,250
32.0	€ 1,250
34.0	€ 1,250
36.0	€ 1,250
38.0	€ 1,250
40.0	€ 1,250
42.0	€ 1,250
44.0	€ 1,250



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Historic Frequency of VSTOXX Values, 1999-2021

(5,607 daily observations, whole number buckets)



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Sample VSTOXX Call Spread

V2TX Jan19'22 @DTB PUT/CALLs (Side by Side)

21.70 -0.35 (-1.59%)

NOV / NOV 26 DAYS

DEC / DEC 61 DAYS

JAN'22 / JAN'22 89 DAYS

FEB'22 / FEB'22 117 DAYS

MORE

TABBED VIEW

PUT/CALL

All STRIKES

DTB

OVS2

100

CALLS

PUTS

OPTN ... VOLUME	BID	ASK	SI...	BID x ASK	DELTA	IMPLD ...	ASK S...	STRIKE
1,050	4.025	4.550			0.715	68.3%	1,050	19
3,401	3.650	4.150			0.659	71.6%	1,100	20
750	3.500	3.775			0.609	77.6%	2,600	21
750	3.175	3.500			0.565	80.9%	2,600	22
750	2.900	3.200			0.526	83.1%	750	23
3,051	2.625	3.000			0.490	85.8%	3,051	24
4,051	2.450	2.800			0.458	88.4%	3,051	25
750	2.300	2.600			0.429	91.5%	2,301	26
750	2.175	2.450			0.404	93.4%	2,301	27
2,300	2.025	2.300			0.381	95%	750	28
1,500	1.900	2.200			0.361	98.6%	1,500	29
2,300	1.775	2.075			0.341	100.1%	2,300	30
2,300	1.575	1.875			0.308	103.2%	2,300	32

OPTN ... VOLUME	BID	ASK	SI...	BID x ASK	DELTA	IMPLD ...	ASK S...	STRIKE
1,900	1.425	1.725			-0.284	68.4%	750	
750	2.050	2.350			-0.339	72.3%	750	
750	2.675	3.050			-0.389	75.7%	750	
750	3.450	3.800			-0.433	80.9%	2,600	
1,750	4.100	4.575			-0.472	82.8%	1,750	
1,000	4.875	5.375			-0.509	86.3%	1,000	
1,000	5.675	6.200			-0.540	89%	1,000	
1,000	6.500	7.025			-0.569	91.8%	1,000	
950	7.350	7.875			-0.594	93.8%	950	
1,000	8.200	8.750			-0.617	95.6%	1,000	
1,000	9.050	9.600			-0.637	98.1%	1,000	
1,000	9.925	10.500			-0.657	100.1%	1,000	
1,000	11.725	12.300			-0.690	102.9%	1,000	

ON Strategy Builder

Strategies

ACTN	RT	LST TRD DAY	STRIKE	TYPE	DELTA	THETA	BID/ASK	SIZE	Delayed
Leg 1 Buy		1 JAN 19 '22	20	Call	0.659	-0.01593	3.650x4.150	3,401x1,100	Delayed
Leg 2 Sell		1 JAN 19 '22	30	Call	0.341	-0.02205	1.775x2.075	2,300x2,300	Delayed
Jan19 '22 20/30 Bull Call					0.318	0.00612	1.575x2.375	2,300x1,100	Delayed

Clear All Legs

+ PROFILE

+ Add to Watchlists

1.575 2.375

BID MID ASK

Order Entry

LMT QTY 1 LMT PRC 0.00 DAY advanced

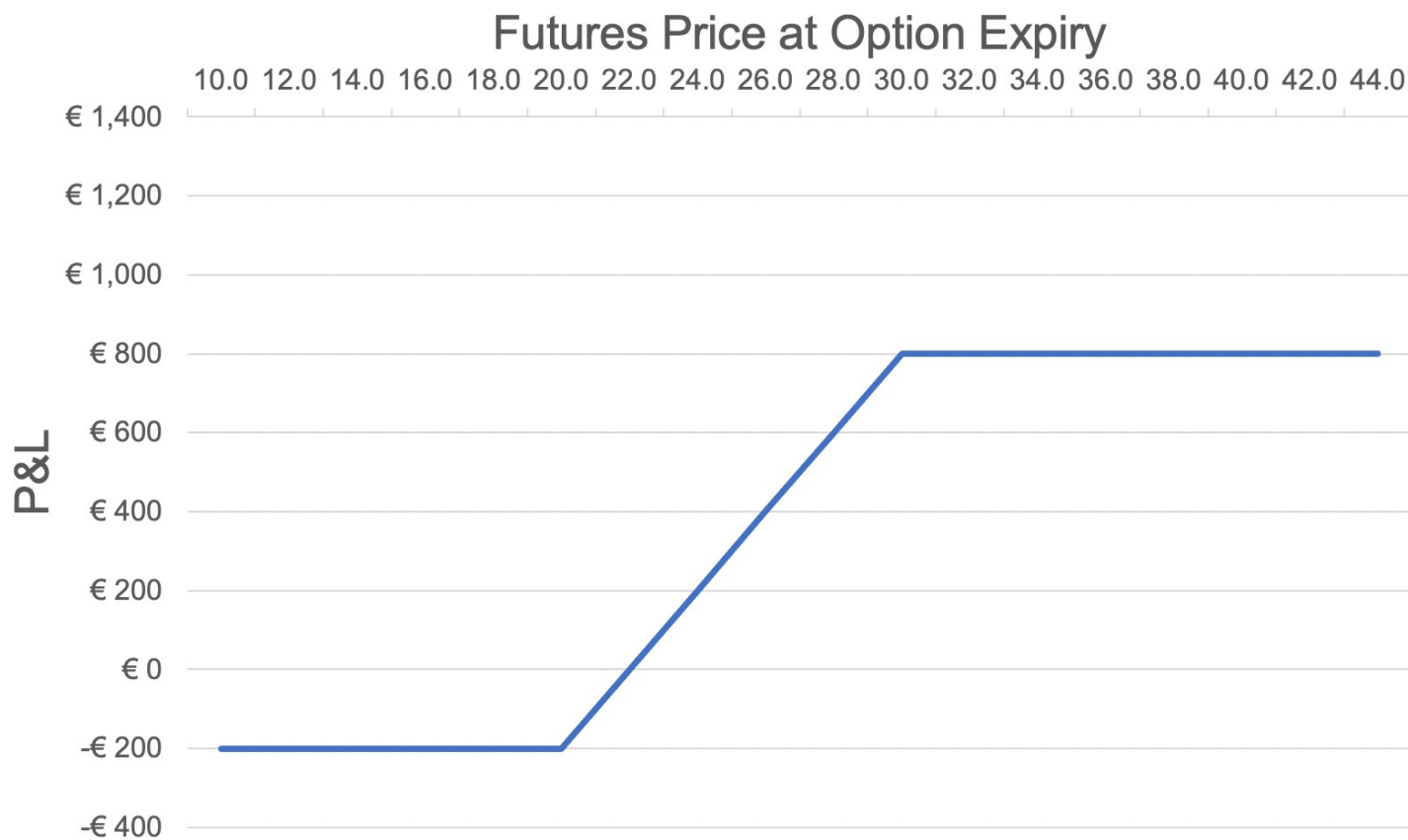
Margin Impact: 265 USD

Submit Order

Any stock, options or futures symbols displayed are for illustrative purposes only and are not intended to portray recommendations. There is a substantial risk of loss in trading futures and options. Past performance is not indicative of future results.

Sample VSTOXX Call Spread (20-30 @2.0)

Final Level	P&L
10.0	€ (200)
12.0	€ (200)
14.0	€ (200)
16.0	€ (200)
18.0	€ (200)
20.0	€ (200)
22.0	€ -
24.0	€ 200
26.0	€ 400
28.0	€ 600
30.0	€ 800
32.0	€ 800
34.0	€ 800
36.0	€ 800
38.0	€ 800
40.0	€ 800
42.0	€ 800
44.0	€ 800



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Sample VSTOXX 1x2 Call Spread

V2TX Jan19'22 @DTB PUT/CALLs (Side by Side)

21.70 -0.35 (-1.59%)

NOV / NOV 26 DAYS

DEC / DEC 61 DAYS

JAN'22 / JAN'22 89 DAYS

FEB'22 / FEB'22 117 DAYS

MORE

TABBED VIEW PUT/CALL All STRIKES DTB OVS2 100

CALLS

OPTN ... VOLUME	BID	ASK	DELTA	IMPLD	ASK S...	STRIKE
1,050	4.025	4.575	0.715	68.3%	1,850	19
3,401	3.650	4.150	0.659	71.6%	1,100	20
750	3.500	3.775	0.609	77.6%	2,600	21
750	3.175	3.500	0.565	80.9%	2,600	22
750	2.900	3.200	0.526	83.1%	750	23
3,051	2.625	3.000	0.490	85.8%	3,051	24
4,051	2.450	2.800	0.458	88.4%	3,051	25
750	2.300	2.600	0.429	91.5%	750	26
750	2.175	2.450	0.404	93.4%	750	27
2,300	2.025	2.300	0.381	95%	750	28
1,500	1.900	2.200	0.361	98.6%	1,500	29
2,300	1.775	2.075	0.341	100.1%	2,300	30
2,300	1.575	1.875	0.308	103.2%	2,300	32

PUTS

OPTN ... VOLUME	BID	ASK	DELTA	IMPLD	ASK S...
1,900	1.425	1.725	-0.284	68.4%	750
750	2.050	2.350	-0.339	72.3%	750
750	2.675	3.050	-0.389	75.7%	750
750	3.450	3.800	-0.433	80.9%	2,600
1,750	4.100	4.575	-0.472	82.8%	1,750
1,000	4.875	5.375	-0.509	86.3%	1,000
1,000	5.675	6.200	-0.540	89%	1,000
1,000	6.500	7.025	-0.569	91.8%	1,000
950	7.325	7.875	-0.594	93.8%	950
950	8.175	8.750	-0.617	95.6%	950
1,000	9.050	9.600	-0.637	98.1%	1,000
1,000	9.925	10.500	-0.657	100.1%	1,000
1,000	11.725	12.300	-0.690	102.9%	1,000

ON Strategy Builder

ACTN	RT	LST TRD DAY	STRIKE	TYPE	DELTA	THETA	BID/ASK	SIZE	
Buy	1	JAN 19 '22	20	Call	0.659	-0.01593	3.650x4.150	3,401x1,100	Delayed
Sell	2	JAN 19 '22	30	Call	0.341	-0.02205	1.775x2.075	2,300x2,300	Delayed
Total					-0.023	0.02816	-0.500x0.600	1,150x1,100	Delayed

Clear All Legs

PROFILE

Add to Watchlists

-0.500 0.600

BID MID ASK

Order Entry

LMT QTY 1 LMT PRC 0.00 DAY advanced

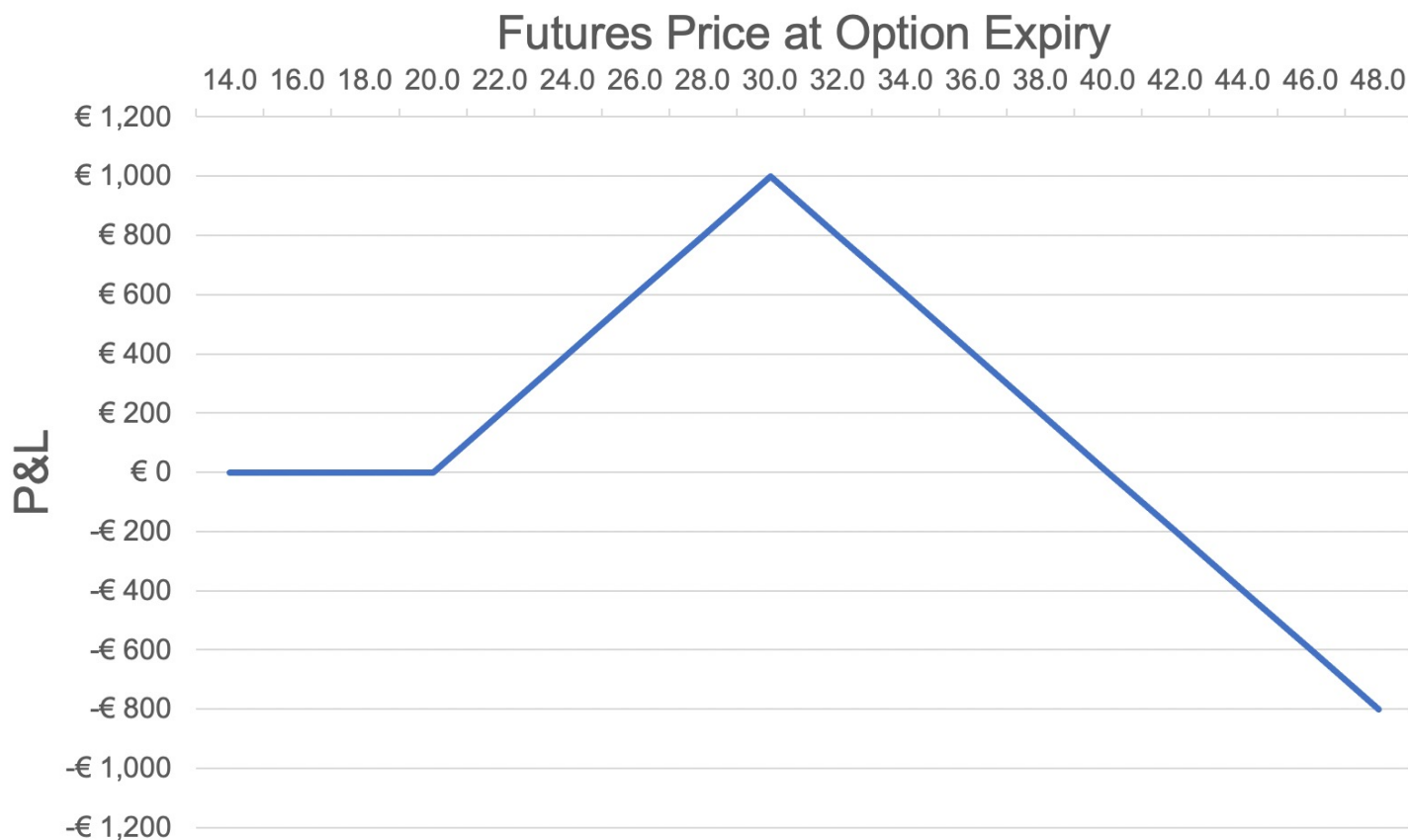
Margin Impact: 780 USD

Submit Order

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Sample VSTOXX 1x2 Call Spread (20-30 @nil)

Final Level	P&L
14.0	€ -
16.0	€ -
18.0	€ -
20.0	€ -
22.0	€ 200
24.0	€ 400
26.0	€ 600
28.0	€ 800
30.0	€ 1,000
32.0	€ 800
34.0	€ 600
36.0	€ 400
38.0	€ 200
40.0	€ -
42.0	€ (200)
44.0	€ (400)
46.0	€ (600)
48.0	€ (800)



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Sample VSTOXX Calendar Put Spread

V2TX Jan19'22 @DTB PUT/CALLs (Side by Side) 21.70 -0.35 (-1.59%) IV: 84.4%

NOV / NOV 26 DAYS DEC / DEC 61 DAYS JAN'22 / JAN'22 89 DAYS FEB'22 / FEB'22 117 DAYS MORE

TABBED VIEW PUT/CALL All STRIKES DTB OVS2 100

CALLS						PUTS						
OPTN ...	VOLUME	BID	SI...	BID x ASK	DELTA IMPLD... ASK S...	STRIKE	OPTN ...	VOLUME	BID	SI...	BID x ASK	DELTA IMPLD... ASK S...
	2,301	4.500	5.150	0.869 61.9%	750	16		750	0.300	0.500	-0.130 61.8%	1
	750	3.925	4.500	0.792 67.7%	750	17		750	0.650	0.875	-0.207 66%	1,250
	1,050	3.475	3.875	0.717 71.7%	1,050	18		2,651	1.100	1.375	-0.282 71.7%	1,850
	1,050	3.075	3.475	0.650 77.5%	1,850	19		3,351	1.700	1.975	-0.349 77%	1,050
	1,800	2.775	3.050	0.590 81.9%	5	20		750	2.375	2.650	-0.409 82.6%	750
	750	2.525	2.825	0.538 87.1%	2,550	21		1,750	3.050	3.400	-0.461 86.4%	1,000
	2,301	2.300	2.600	0.493 91.7%	750	22		1,000	3.825	4.200	-0.506 92%	1,000
	750	2.100	2.350	0.452 94.4%	750	23		1,000	4.625	5.000	-0.547 95.4%	1,000
	2,451	1.900	2.175	0.417 98.4%	750	24		949	5.425	5.825	-0.582 98.9%	949
	750	1.750	2.025	0.385 101.3%	750	25		950	6.250	6.650	-0.614 100.8%	950
	750	1.600	1.875	0.359 104.3%	2,500	26		950	7.075	7.525	-0.640 103.3%	950
	3,249	1.450	1.750	0.333 106.1%	3,250	27		950	7.950	8.375	-0.666 105.4%	950
	1,750	1.350	1.625	0.310 108.8%	2,550	28		1,000	8.825	9.275	-0.689 108.1%	1,000

Strategy Builder Strategies

ACTN	RT	LST TRD DAY	STRIKE	TYPE	DELTA	THETA	BID/ASK	SIZE	
Leg 1	Sell	1 NOV 17 '21	20	Put	-0.485	-0.03625	2.075x2.275	1,000x1,000	Delayed
Leg 2	Buy	1 DEC 22 '21	20	Put	-0.409	-0.02150	2.375x2.650	750x750	Delayed
Nov17/Dec22 20 Calendar Put					0.075	0.01475	0.100x0.575	750x750	Delayed

Clear All Legs + PROFILE + Add to Watchlists

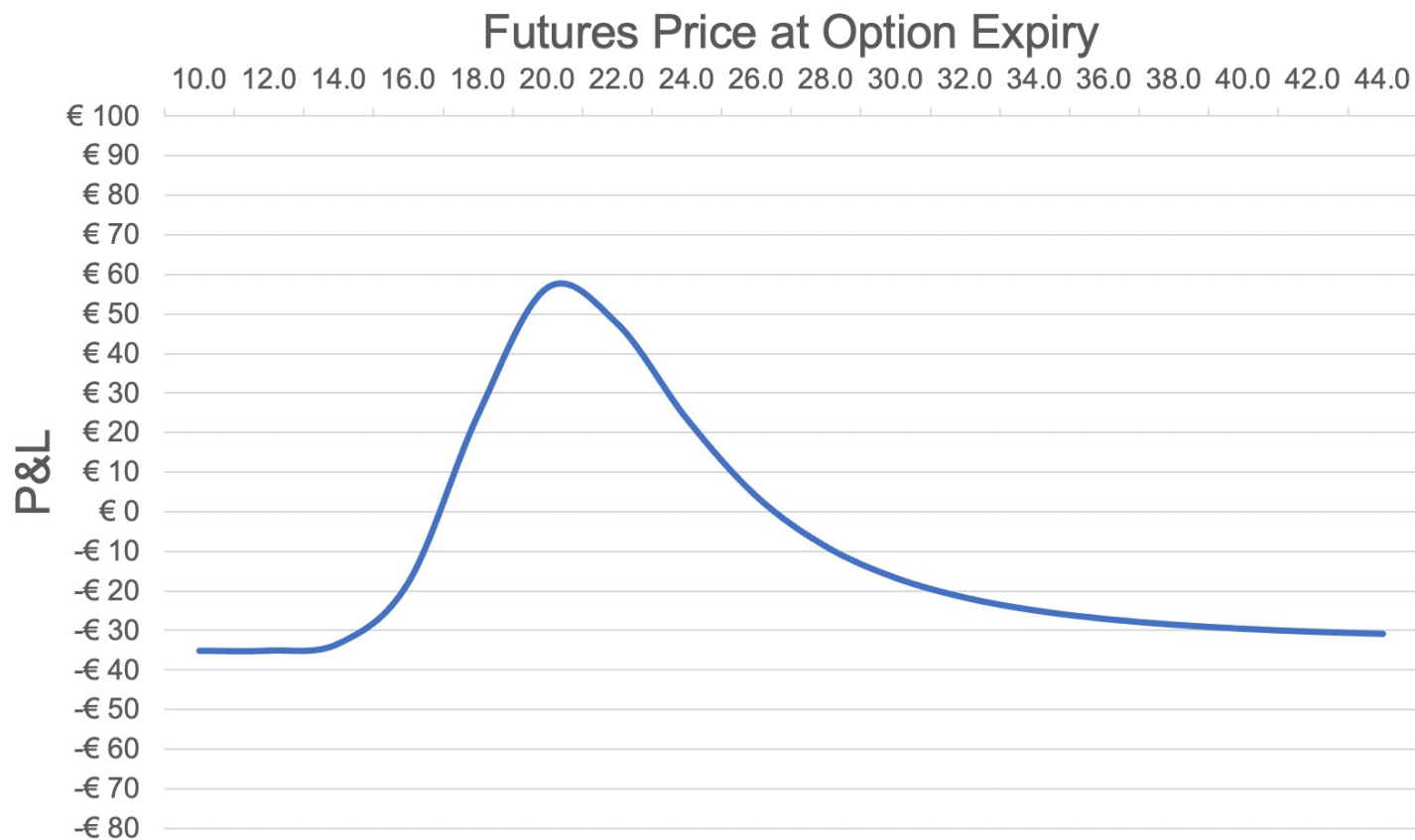
0.100 0.575
BID MID ASK

Order Entry LMT QTY 1 LMT PRC 0.00 DAY advanced + Margin Impact: 589 USD Submit Order

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Sample VSTOXX Calendar Spread (2m-1m @0.35)

Final Level	P&L
10.0	€ (35)
12.0	€ (35)
14.0	€ (33)
16.0	€ (18)
18.0	€ 25
20.0	€ 57
22.0	€ 48
24.0	€ 24
26.0	€ 4
28.0	€ (9)
30.0	€ (17)
32.0	€ (22)
34.0	€ (25)
36.0	€ (27)
38.0	€ (28)
40.0	€ (29)
42.0	€ (30)
44.0	€ (31)



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VSTOXX® vs VIX®, with Historical Data

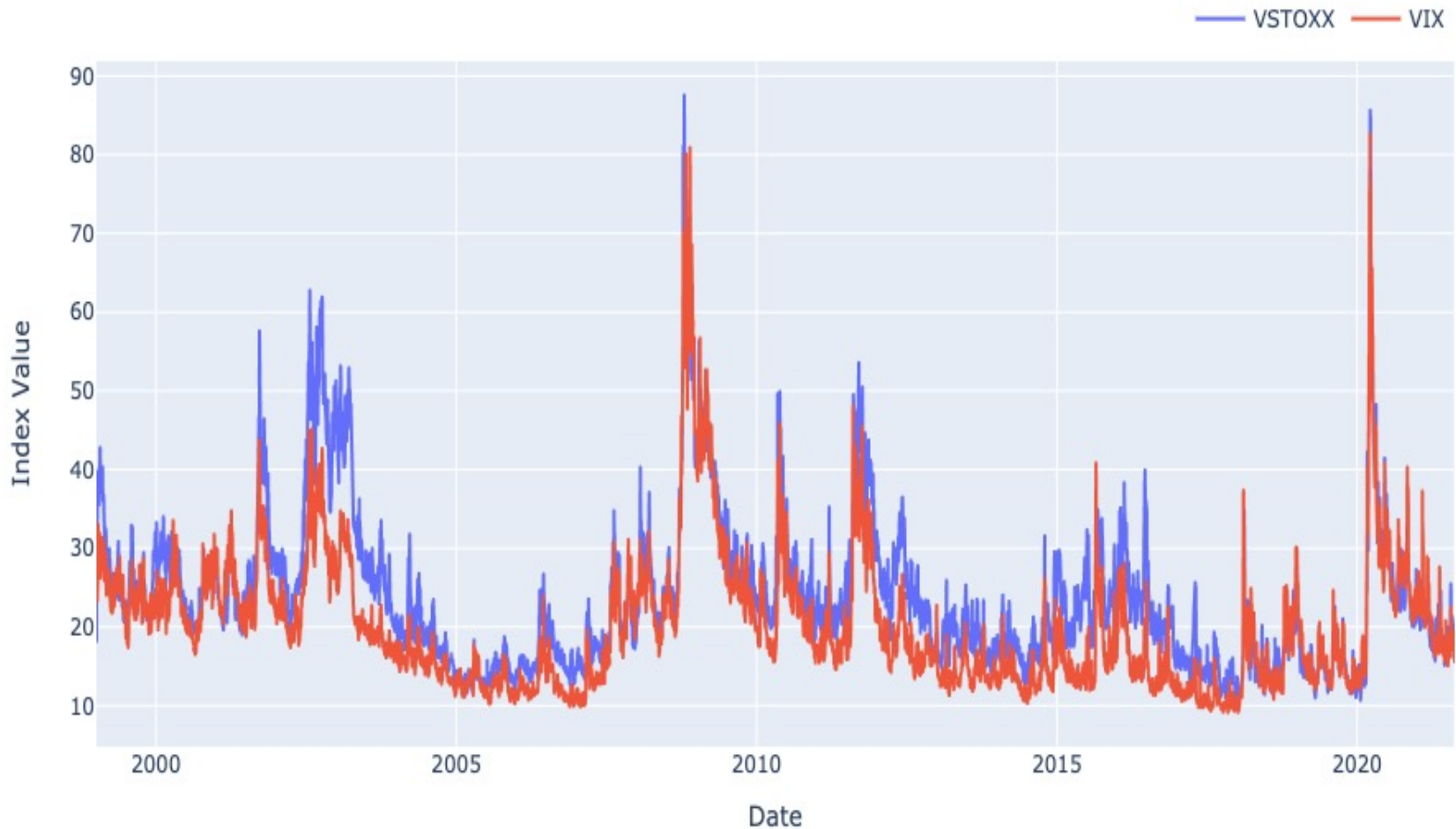
The Futures on IBKR Mosaic (29 Oct 2021)

	LAST	CHANGE			LAST	CHANGE	
VIX INDEX	16.52	-0.46	-2.71%	V2TX INDEX	♦ c17.61		
VXM Nov17'21 @CFE	19.05	+0.40	2.14%	V2TX Nov17'21 @DTB	♦ 19.65	+0.25	1.29%
VXM Dec22'21 @CFE	21.15	+0.30	1.44%	V2TX Dec22'21 @DTB	♦ 20.70	+0.10	0.49%
VXM Jan19'22 @CFE	c22.35			V2TX Jan19'22 @DTB	♦ 21.45	-0.10	-0.46%
VXM Feb16'22 @CFE	c23.20			V2TX Feb16'22 @DTB	♦ 22.10	-0.05	-0.23%
VXM Mar15'22 @CFE	24.25	+0.20	0.83%	V2TX Mar15'22 @DTB	♦ 23.90	0.00	0.00%
VXM Apr20'22 @CFE	c24.50			V2TX Apr20'22 @DTB	♦ 24.20	0.00	0.00%

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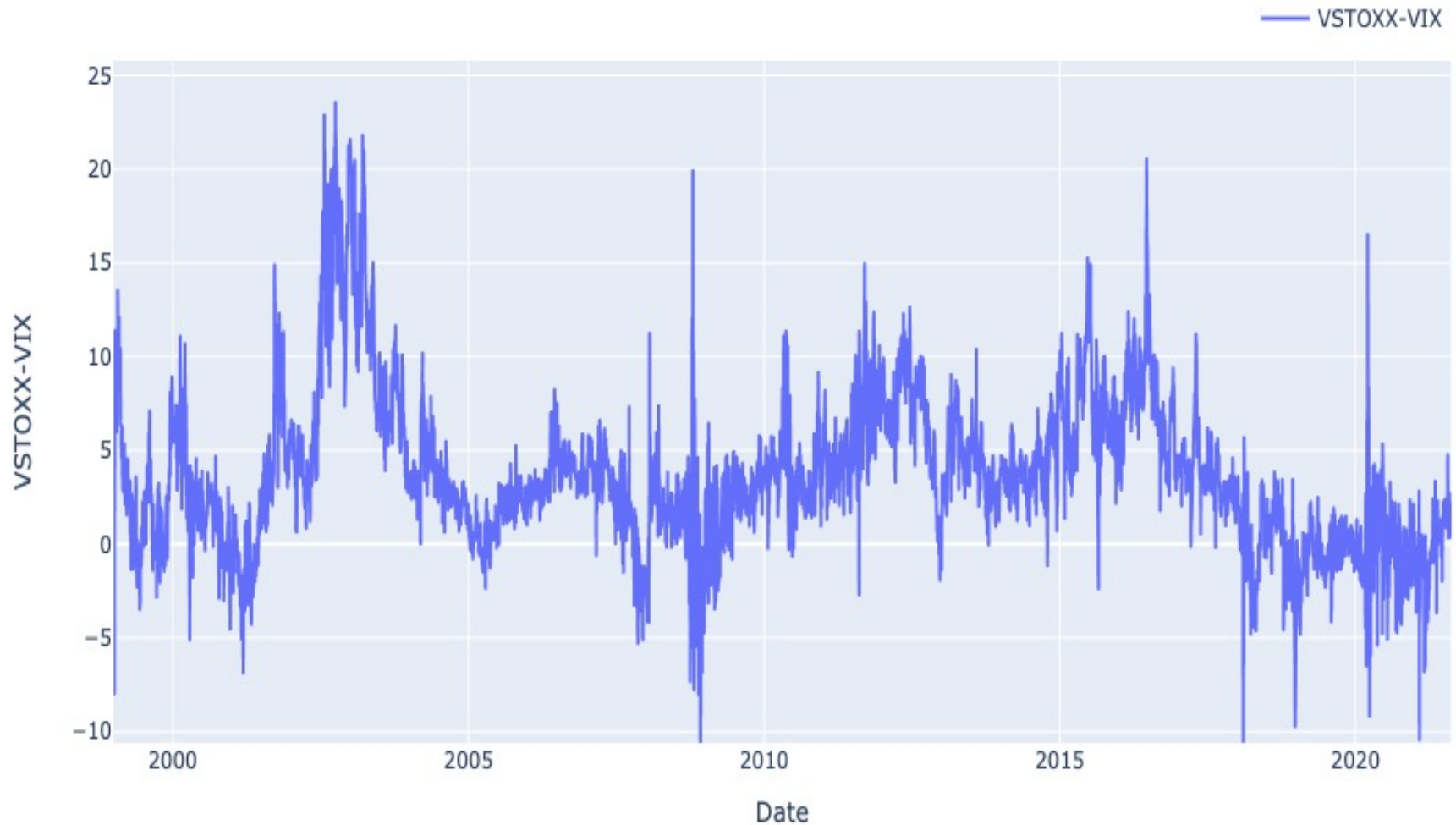
Source: Interactive Brokers

VSTOXX vs VIX index values, 1999-2021



Source: CBOE (https://www.cboe.com/tradable_products/vix/vix_historical_data/)
STOXX (<https://www.stoxx.com/index-details?symbol=V2TX>)

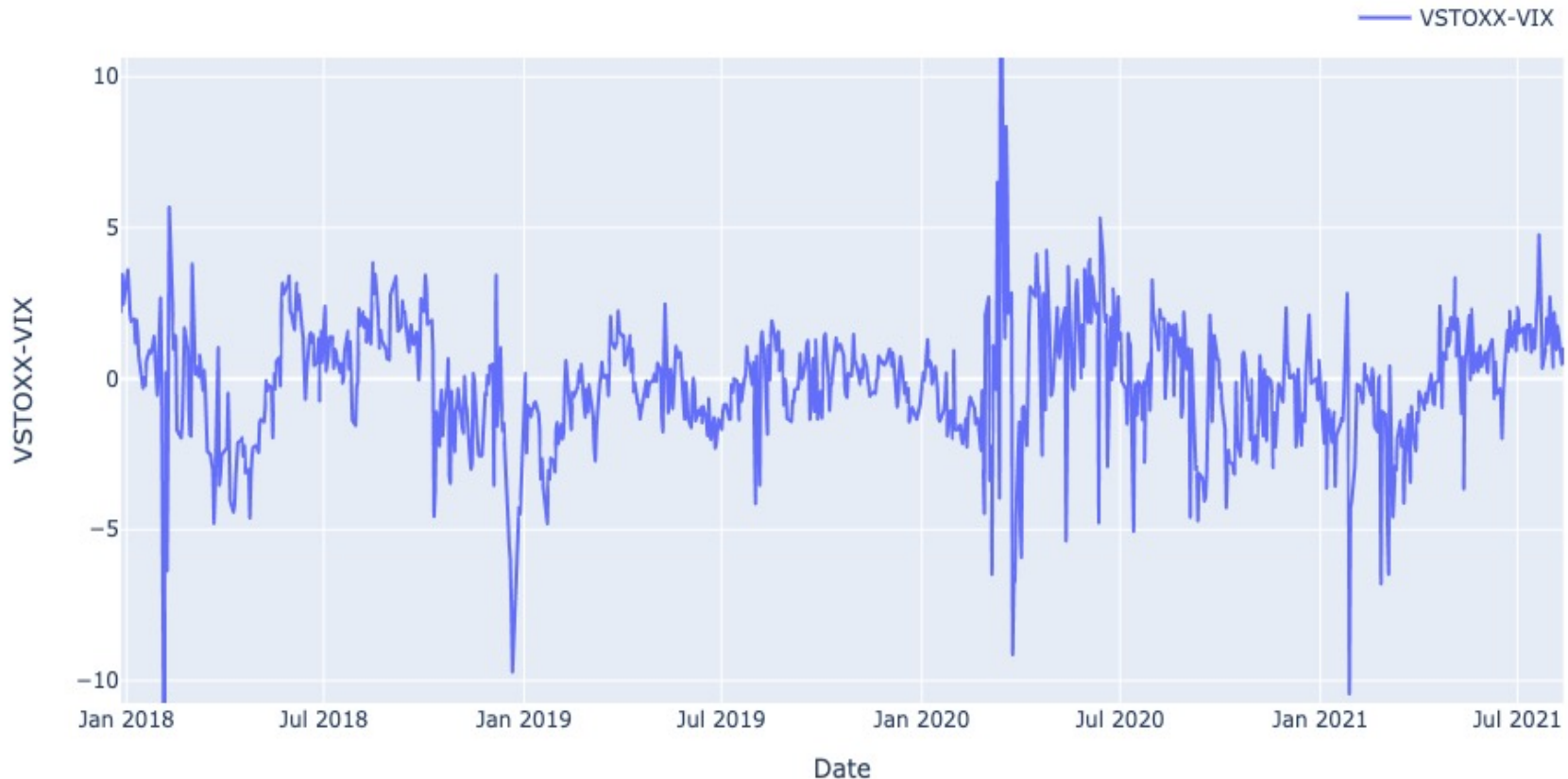
VSTOXX-VIX index spread, 1999-2021



Source: CBOE (https://www.cboe.com/tradable_products/vix/vix_historical_data/)
STOXX (<https://www.stoxx.com/index-details?symbol=V2TX>)

Zooming in on the last three years

VSTOXX-VIX index spread, 2018-2021



Source: CBOE (https://www.cboe.com/tradable_products/vix/vix_historical_data/)
STOXX (<https://www.stoxx.com/index-details?symbol=V2TX>)

VSTOXX-VIX Futures Spread (H2017)



Source: CBOE, STOXX and Quandl.com (<https://www.quandl.com/>)

VSTOXX vs VIX Futures (H2017)



Source: CBOE, STOXX and Quandl.com (<https://www.quandl.com/>)

Sample option outcomes on sample scenario

Assume VSTOXX 24->14, VIX 20->13

- If buy VIX 20 call / sell VSTOXX 24 call → both expired worthless
- If buy VSTOXX 24 put / sell VIX 20 put:
 - VSTOXX option gained +€1,000, vs
 - VIX option lost -US\$700

Main points to remember

- Options let you fine-tune your risk/reward, but make sure you are very clear what this is.
- Vertical spreads provide very precise minimum/maximum payoffs, and are primarily skew trades, on a specific date.
- Calendar spreads on VSTOXX or VIX are far more sensitive to term structure than calendar spreads on stock indexes.
- VSTOXX vs VIX spreads cross currencies and time zones, but also details on whether you use calls vs puts and at what strikes.

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