Contract Specifications for Futures Contracts and Options Contracts at Eurex Deutschland and Eurex Zürich

Eurex14e

As of 22.09.2014

Page 1

AMENDMENTS ARE MARKED AS FOLLOWS:

INSERTIONS ARE UNDERLINED

DELETIONS ARE CROSSED OUT

1. Part: Contract Specifications for Futures Contracts

[...]

<u>1.21</u>	Subpart: Contract Specifications for Variance Futures Contracts					
	The following sub-part contains contract specifications for Futures Contracts on Variance ("Variance Futures Contracts").					
<u>1.21.1</u>	Subject Matter of Contract					
	(1) A Variance Futures contract shall refer to future average price fluctuation (variance) of a specific underlying instrument.					
	(2) The following Futures Contracts on variance are available for trading at the Eurex Exchanges; the institutions mentioned in brackets, being owners of the respective index, are responsible for the calculation:					
	 Variance Futures Contracts (product ID: EVAR) referring to Variance of the EURO STOXX[®] 50 Index (STOXX Limited) 					
	(3) The value of a Variance Futures contract shall be:					
	 EUR 1 per Variance Futures point for Variance Futures contracts (product ID: EVAR) 					
	(4) If any changes are made in the calculation of an underlying index such that the concept of the index appears to be no longer comparable with the concept that applied when the Variance Futures contract was admitted to trading, the Boards of Management of the Eurex Exchanges may order the termination of trading in such contracts as of the last trading day prior to the change in the respective index. Open positions shall be settled in cash upon the termination of trading. The respective final settlement price shall be used (Chapter II, number 2.6.3 of the Clearing Conditions of Eurex Clearing AG).					
1.21.2	Obligation of fulfillment					
	After the determination of the final settlement price (according to 1.21.7.5) on the final settlement day of the contract, the seller of a Variance Futures Contract shall pay in cash any					

Contract Specifications for Futures Contracts and		Eurex14e		
Options (Contracts at Eurex Deutschland and Eurex Zürich	As of 22.09.2014		
		Page 2		
1.21.3	difference between the agreed price and the higher final s pay in cash any difference between the agreed price and Term	ettlement price/ the purchaser sha the lower final settlement price.		
	<u>before the final settlement day (number 1.21.4) of each of each case including the final settlement day of the next, the calendar month and the next three succeeding quarter-er December) and the next two succeeding half-year expirat thereafter.</u>	<u>e Eurex Exchanges until one day</u> <u>f the following terms: up to and in</u> <u>ne second and the third succeedin</u> <u>nd months (March, June, Septemb</u> <u>tion days (June and December)</u>		
<u>1.21.4</u>	Last trading day, Final Settlement day, Close of	Trading		
	(1) Last trading day of the Variance Futures Contract is day.	the day before the final settlemer		
	(2) Close of trading on the last trading day of Variance EVAR) referring to Variance of the EURO STOXX [®]	Futures Contracts (product ID: 50 Index is 17:30 CET.		
	(3) Final settlement day is generally the third Friday of the day after the last trading day provided that such day it shall be the trading day immediately preceding suc at 12:00 CET. At this point in time the last price obse Realized Variance (according to 1.21.7.2.2.1) is calc	ne expiration month, one business is a trading day at Eurex; otherwis h day. Final settlement takes plac rvation is recorded and the final ulated.		
1.21.5	Price Gradations			
	The price of a Variance Futures Contracts shall be calcula minimum price change (tick) is	ated with four decimal places. The		
	 0.0001 points for Variance Futures Contracts (p to a value of EUR 0.0001. 	product ID: EVAR); this correspon		
1.21.6	Fulfilment, Cash Settlement			
	(1) Fulfilment day for Variance Futures Contracts shall I settlement day.	be the Exchange day after the fina		
	(2) The Variance Futures Contracts shall be fulfilled through the Clearing Members and Eurex Clearing AG. The respectation of the cash settlement to Non-Clearing-Memory Non-Clearing Members are in charge of the cash settle to their clients.	ough cash settlement between the consible Clearing Member is in bers and own clients; whereas the attlement of Non-Clearing Member		
1.21.7	Trading convention			
1.21.7.1	Exchange Trading			
	Variance Futures are traded in a quantity of "notional Veg that is expressed in Euros and at prices of "Volatility", whi fluctuation of a specific underlying instrument over the life expressed in percentage points. Subsequent to a trade m	a", which represents a risk amour ich is the annualized average price time of the contract that is atching the traded notional Vega		

Contract Specifications for Futures Contracts and
Options Contracts at Eurex Deutschland and Eurex Zürich

Eurex14e

As of 22.09.2014

Page 3

converted into a Variance Futures quantity and the Volatility is converted into a Variance Futures price, according to 1.21.7.2

Price gradation and trade size:

In trading Variance Futures, the minimum price increment in Volatility is 0.05 percentage points. The minimum trade size in trading Variance Futures is 1 notional Vega.

1.21.7.2 Conversion

1.21.7.2.1 Description

Upon matching of orders that are expressed in notional Vega (v) and Volatility (σ), matched trades are converted into a position in Variance Futures contracts at Variance Futures prices. Conversions from Volatility into Variance Futures prices require the end of day closing price of the underlying instrument. Trade price conversions before the publication of this price result into preliminary trade prices. The preliminary trade prices will be updated after the publication of the closing price of the underlying instrument.

The conversion takes place according to the formulae specified in sections 1.21.7.2.2 and 1.21.7.2.3.

1.21.7.2.2 Formula Trade Price Conversion

Volatility is converted into the Variance Futures price according to the following formulae:

1. Traded variance

traded variance
$$(\sigma_t^2) = \frac{(traded "Volatility" (\sigma)^2 * (T - t) + \sigma_r^2 * t)}{T}$$

2. Traded Variance Futures price

traded Futures $price(F_t(\sigma))$

 $= D_t * (traded variance (\sigma_t^2) - standard variance strike(\sigma_0^2)) - ARMVM_t + C$

<u>,where</u>

 \underline{T} = total amount of daily variance observations that are expected to occur during the life time of the contract

<u>t</u> = amount of daily variance observations that have occurred until the day of the trade match <u> D_t </u> = discount factor according to 1.21.7.2.2.3, valid at time t

 $\sigma_r^2 = realized variance measured until and including the closing price of the underlying instrument at the end of the day of the trade match. Realized variance is calculated according to section 1.21.7.2.2.1$

 $\sigma_0^2 = standard variance strike according to section 1.21.7.3$ ARMVM_t = Accumulated Return on Modified Variation Margin –A correction term accoring to section 1.21.7.2.2.2<u>C = a constant term</u>

1.21.7.2.2.1 Realized Variance

Realized variance is determined by the Boards of Management of the Eurex Exchanges based on the closing prices of the underlying instrument between the first trading day and the final settlement day according to the following formula: Contract Specifications for Futures Contracts and

Eurex14e

Options Contracts at Eurex Deutschland and Eurex Zürich

As of 22.09.2014

Page 4



Eurex14e

As of 22.09.2014

Page 5

$$Q(F) = \frac{\text{notional Vega}(v)}{2 * \sigma} * \frac{T}{T-t}$$

<u>, where</u>

 $\underline{T} = total amount of daily variance observations that are expected to occur during the life time of the contract$

<u>t = amount of daily variance observations that have occurred until the day of the calculation</u> $<math>\sigma = traded$ "Volatility"</u>

The Variance Futures quantity is rounded to the nearest integer; at least to 1 Variance Futures contract.

The highest admissible Variance Futures quantity is 999,999 contracts. If an order or a quote is entered into the Eurex system specifying a notional Vega quantity that would result, according to the conversion method set out in1.21.7.2.3, in a transaction with a higher Variance Futures quantity ("Exceeding Order"), the respective Exceeding Order will be deleted and will not generate a transaction. Orders or quotes that are matched with such Exceeding Orders in full will be deleted and will neither generate a transaction. Orders will be deleted to the extent they have been matched with such Exceeding Order and the respective deleted part of the order or quote and will neither generate a transaction. Such orders or quotes will remain in the order book to the extent they have not been deleted.

1.21.7.3 Standard Variance Strike

The standard variance strike (σ_0^2) is determined by the Boards of Management of the Eurex Exchanges on the first trading day of a new instrument and is kept unchanged during the life time of the instrument. The standard variance strike is based on the volatility level (σ) in percentage points that is observed in the market on that day.

1.21.7.4 Daily settlement price

The daily settlement price of Variance Futures contracts (S_t) is calculated in the same way as described in 1.21.7.2.2. Instead of *traded* "Volatility" (σ)², a settlement "Volatility" (σ_{settle})² is used as input factor. That means $S_t = F_t(\sigma_{settle})$. The settlement "Volatility" (σ_{settle})² is determined as:

- 1. The volume weighted average price during the last 30 minutes of trading on each scheduled trading day.
- 2. The market maker mid point price during the last 30 minutes of trading on each scheduled trading day.
- 3. The last price of the VSTOXX Sub index that references the same maturity as the Variance Futures contract.

1.21.7.5 Final settlement price

The final settlement price of Variance Futures contracts is calculated in the same way as described in 1.21.7.2.2. For the calculation of the Realized Variance according to 1.21.7.2.2.1 the following underlying price S_T^{und} is used on the final settlement day:

 Variance Futures on the EURO STOXX[®] 50 index use the EURO STOXX[®] 50 index value that is based on the average of the EURO STOXX[®] 50 index calculations from 11:50 a.m. until 12:00 noon CET on the final settlement day of the expiration month.

Contract	Specifications for Futures Contracts and	Eurex14e As of 22.09.2014				
Options (Contracts at Eurex Deutschland and Eurex Zürich					
		Page 6				
1.21.7.6	Market Disruption					
	In case of a market disruption event on trading day t, the	realized variance according to				
	section 1.21.7.2.2.1 is calculated using					
	$S_t^{und} = S_{t-1}^{und}$					
	The closing price of the underlying instrument of the previous day is used as the closing price					
	of the day of the realized variance calculation.					
	A market disruption event means the occurrence or existence of at least one of the following					
	situations on an exchange day:					
	1. The index provider fails to calculate an index level.					
	2. Eurex is closed for trading during the last hour prior to the publication of the last underlying price.					
	3. The Futures on the underlying instrument is not available for trading during the last hour prior to the publication of the last underlying price.					
	4. The options on the underlying instrument are not av prior to the publication of the last underlying price.	ailable for trading during the last hour				
	The Boards of Management of the Eurex Exchanges det	ermine situations where orderly price				
	determination is not possible and a market disruption eve	ent has occurred.				
[]						

Annex C in relation to Contract Specifications:

Trading Hours Futures Contracts

Index Futures Contracts

Product	Product-	Pre-Trading-	Continuous	Post-Trading	OTC Block	Last Trading	Day
	ID	Period	Trading	Full-Period	Trading		
						Trading	
						until	
Variance Futures on	<u>EVAR</u>	<u>07:00-08:50</u>	<u>09:00-17:30</u>	<u>18:30-22:00</u>	<u>18:30-21:00</u>	<u>17:30</u>	
EURO STOXX 50 [®] Index							
* During daylight savings time in Germany (CEST)							

During daylight savings time in Germany (CEST)

[...]