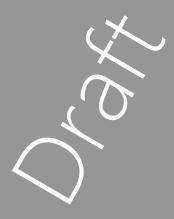


RealVol[®] Futures

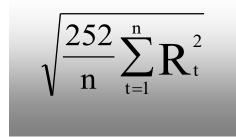
Realized Volatility — Trade Risk Itself



"There is nothing more powerful than an idea whose time has come."

— Victor Hugo

Brochure updated: 15 April 2020



The Concept

RealVol futures settle to a calculation of realized volatility. Specifically, RealVol futures will settle to the appropriate RealVol index.

The Purpose

Realized volatility is a key metric to understanding and quantifying risk. Having the ability to trade risk itself opens up a whole new frontier in controlling the systematic risk of a portfolio.

Realized Volatility

Realized volatility measures the daily movement of the underlying asset regardless of direction. It is functionally different from instruments based on implied volatility.

Key Contract Specifications

RealVol futures are expected to be cash settled, listed for approximately eight weeks at a time, and expiring every Friday.

Uses

RealVol futures will allow market participants to hedge against, invest in, or trade realized volatility. They will be useful particularly for hedging the volatility component of standard options, trading in concert with RealVol options, spreading with implied volatility instruments, and enhancing a portfolio's risk/reward characteristics.

RealVol Indices

There are many RealVol daily indices on each underlying asset (40 in total), and while they can all be used to guide investment decisions, only one will be used to settle RealVol futures (the 21-day realized volatility, symbol VOL). For a complete description of all RealVol indices, please request a RealVol index brochure at demandderivatives.com.

RealVol Formula

At the heart of the RealVol indices is the RealVol formula. It is a simple, modified standard deviation formula that sets the degrees of freedom to zero, the mean to zero, and the annualization factor to a constant 252 trading days.

RealVol Time Frames

RealVol indices come in two forms:

- 1. A daily version
- 2. A real-time version

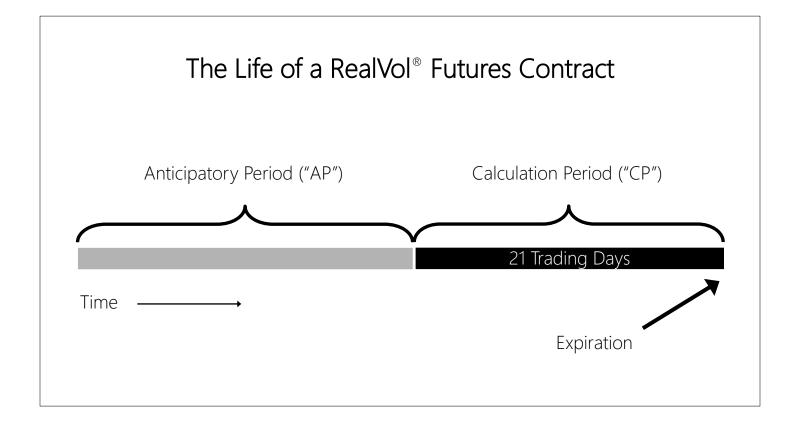
RealVol Daily Indices

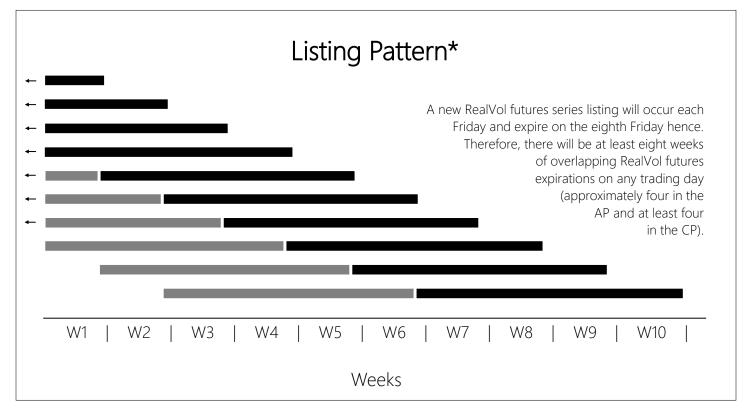
RealVol daily indices are based on only daily data of the underlying asset (i.e., open, high, low, and close).

RealVol Real-Time Index

The RealVol real-time index will use the real-time underlying price to estimate the RealVol daily index throughout the current trading day. At the close of the underlying market, the RealVol daily and real-time indices are equal.

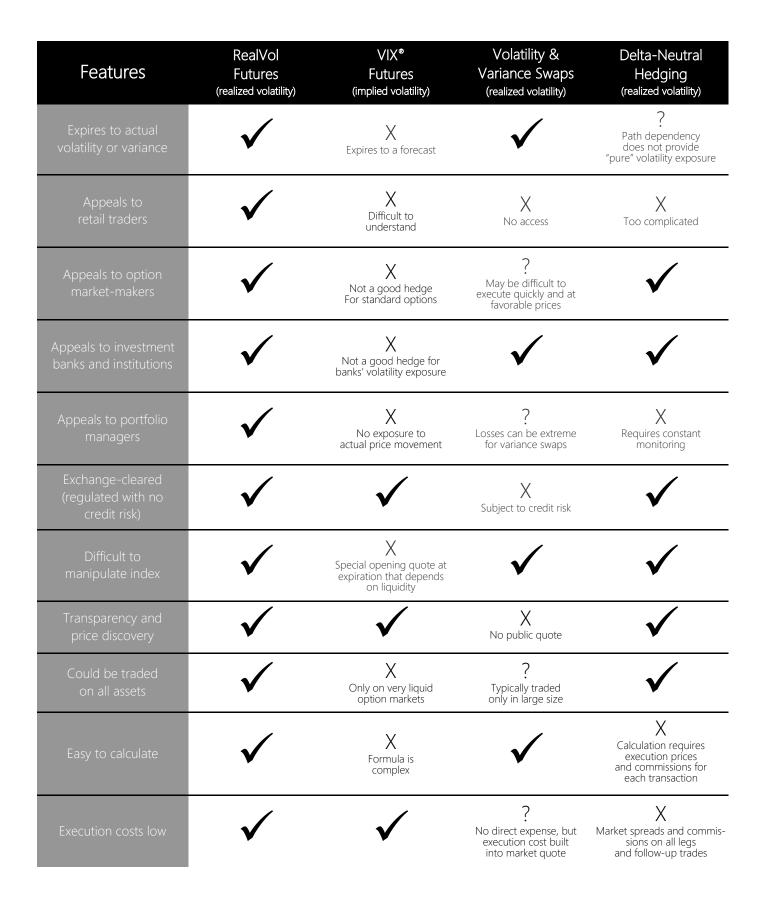
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*All time frames are approximate.

Comparison to Existing Products



RealVol Futures

Detailed Information*

Contract Specifications That Are

Unique to Each Underlying Asset

To be determined

Contract Specifications That Apply to All RealVol Futures

Symbol

VOLx (where "x" is the symbol of the underlying asset)

Contract Settlement

All RealVol futures contracts will settle to the corresponding 21-trading-day RealVol index (VOL) at expiration, which itself is based on the daily closing prices of an underlying asset, instrument, or security.

Index Price

RealVol indices, which are typically expressed as a percentage, will be quoted without the percentage sign; e.g., 23.45% is quoted as 23.45.

Contract Multiplier

\$1,000

Tick Size

Outright — 0.05 points (\$50) Spreads — 0.01 points (\$10)

First Trading Day Eighth Friday prior to expiration Friday

Listing Pattern

Approximately 52 weekly contracts per year with eight or nine contracts listed on any given day.

Expiration Dates Weekly on Fridays

Settlement Style Cash

Settlement Value Rounded to the closest 0.01 points RealVol LLC a subsidiary of Demand Derivatives Corp. demandderivatives.com info@demandderivatives.com 1-888-865-9267 The RealVol Formula

A formula used to calculate the annualized standard deviation of continuously compounded daily returns, assuming zero degrees of freedom, a zero mean, and a constant 252 trading days in a year.

Vol = 100 •
$$\sqrt{\frac{252}{n} \sum_{t=1}^{n} R_{t}^{2}}$$

Where

- Vol = realized volatility
- n = number of trading days in the period (in this case, normally 21)
- R_t = continuously compounded daily returns as calculated by the formula:

$$\mathbf{R}_{t} = Ln \frac{\mathbf{P}_{t}}{\mathbf{P}_{t-1}}$$

Where

- Ln = natural logarithm
- Pt = Underlying Reference Price at time t
- P_{t-1} = Underlying Reference Price at the time period immediately preceding time t

Adjustments

The RealVol indices will be adjusted as applicable, for stock dividends, certain other corporate events, market disruption events, and potentially others. Please find the brochure outlining the RealVol index at:

demandderivatives.com.

*Subject to change. RealVol futures for each underlying asset must be approved for listing by the Commodity Futures Trading Commission (CFTC). RealVol options on SPY have been approved for listing by the Securities and Exchange Commission (SEC). Details may vary according to the underlying asset. Neither RealVol futures nor options are currently listed for trading on any exchange. See demandderivatives.com for detailed information. The information provided herein is for informational purposes only; it must not be relied upon and Demand Derivatives Corp. and affiliates will not be liable for actions taken or not taken in reliance thereon.