

# Structured Product Details

Name Buffered PLUS based on the Market Vectors Gold Miners ETF

 Issue Size
 \$3.03 million

 Issue Price
 \$10

 Term
 18 Months

 Annualized Coupon
 0.00%

 Pricing Date
 February 17, 2010

IssuerMorgan StanleyCDS Rate128.53 bpsSwap Rate0.99%

Reference Asset

Market Vectors Gold Miners ETF's stock
Initial Level
Dividend Rate
Implied Volatility
Delta¹

Market Vectors Gold Miners ETF's stock
\$44.69
0.25%
41.15%
0.25%
0.44

Fair Price at Issue \$9.34 Realized Return 14.84%

CUSIP 617484332 SEC Link www.scc.gov/Archives/cdgar/data/895421/000095010310000433/dp16555\_424b2-ps312.htm

## Related Research

## Research Papers:

www.slcg.com/research.php

- "Are Structured Products Suitable for Retail Investors?" December 2006.
- "Structured Products in the Aftermath of Lehman Brothers," November 2009.
- "What TiVo and JP Morgan Teach Us about Reverse Convertibles," June 2010.

# **Description**Morgan Stanley issued \$3.03 million of Buffered PLUS based on the Market Vectors Gold

Vectors Gold Miners ETF

Buffered PLUS based on the Market

Morgan Stanley issued \$3.03 million of Buffered PLUS based on the Market Vectors Gold Miners ETF on February 24, 2010 at \$10 per note.

These notes are Morgan Stanley-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of Market Vectors Gold Miners ETF's stock.

If on August 19, 2011 Market Vectors Gold Miners ETF's stock price is higher than \$44.69, but lower than \$49.83, the notes pay a return equal to the percentage increase in Market Vectors Gold Miners ETF's stock multiplied by 2.0, up to a cap of 23.00%. If on August 19, 2011 Market Vectors Gold Miners ETF's stock price is below \$44.69 but not below \$37.99, investors receive \$10 face value per note. If Market Vectors Gold Miners ETF's stock price on August 19, 2011 is lower than \$37.99, investors receive face value per note reduced by the amount the reference asset is below \$37.99 as a percent of the initial level, \$44.69.

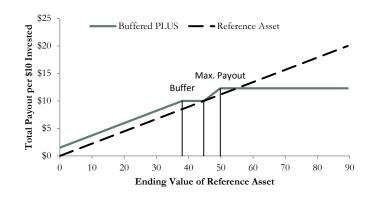
## **Valuation**

Report Prepared On: 10/26/12

This Buffered PLUS linked to Market Vectors Gold Miners ETF's stock can be valued as a combination of a note from Morgan Stanley, one short out-of-the-money put option, two long at-the-money call options, and two short out-of-the-money call options. For reasonable valuation inputs this note was worth \$9.34 when it was issued on February 24, 2010 because the value of the options investors gave Morgan Stanley plus the interest investors would have received on Morgan Stanley's straight debt was worth \$0.66 more than the options investors received from Morgan Stanley.

There is no active secondary market for most structured products. Structured products, including this note, therefore are much less liquid than simple stocks, bonds, notes and mutual funds. Investors are likely to receive less than the structured product's estimated market value if they try to sell the structured product prior to maturity. Our valuations do not incorporate this relative lack of liquidity and therefore should be considered an upper bound on the value of the structured product.

## Payoff Curve at Maturity



The payoff diagram shows the final payoff of this note given Market Vectors Gold Miners ETF's stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in Market Vectors Gold Miners ETF's stock directly.

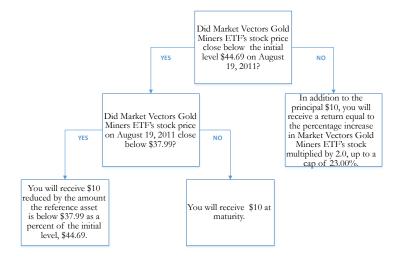
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## Principal Payback Table

Market Vectors Gold Miners ETF's Stock	Note Payoff
\$0.00	\$1.50
\$4.47	\$2.50
\$8.94	\$3.50
\$13.41	\$4.50
\$17.88	\$5.50
\$22.35	\$6.50
\$26.81	\$7.50
\$31.28	\$8.50
\$35.75	\$9.50
\$40.22	\$10.00
\$44.69	\$10.00
\$49.16	\$12.00
\$53.63	\$12.30
\$58.10	\$12.30
<b>\$</b> 62.57	\$12.30
\$67.04	\$12.30

## Maturity Payoff Diagram

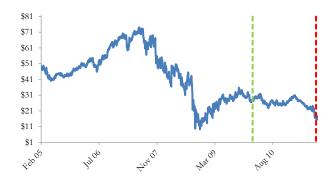


The contingent payoffs of this Buffered PLUS.

# **Analysis**

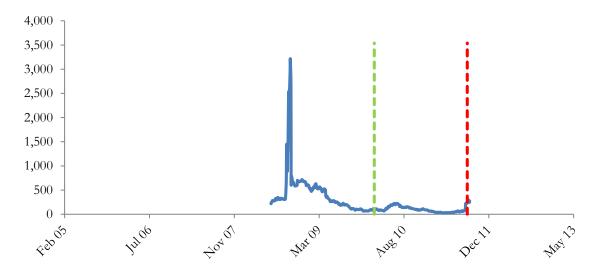
This Buffered PLUS pays investors the increase in Market Vectors Gold Miners ETF's stock multiplied by 2.0 capped at 23.00%, but if Market Vectors Gold Miners ETF's stock declines over the term of the note, investors will suffer losses equal to the percentage decline in Market Vectors Gold Miners ETF's stock. In addition, investors bear the credit risk of Morgan Stanley. Investors purchasing this Buffered PLUS effectively sell at-the-money put and out-of-the-money call options to Morgan Stanley, buy at-the-money call options, and a zero-coupon note from Morgan Stanley. This Buffered PLUS is fairly priced if and only if the market value of the options investors received from Morgan Stanley equals the market value of the options investors gave Morgan Stanley plus the interest investors would have received on Morgan Stanley's straight debt.

## Morgan Stanley's Stock Price



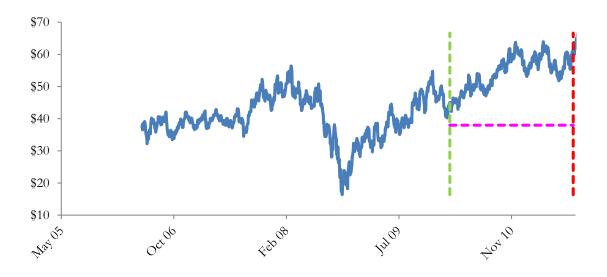
The graph above shows the adjusted closing price of the issuer Morgan Stanley for the past several years. The stock price of the issuer is an indication of the financial strength of Morgan Stanley. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

# Morgan Stanley's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Morgan Stanley. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived credit risk, higher required yields, and therefore lower market value of Morgan Stanley's debt, including outstanding Buffered PLUS. Fluctuations in Morgan Stanley's CDS rate impact the market value of the notes in the secondary market.

#### Market Vectors Gold Miners ETF's Stock Price

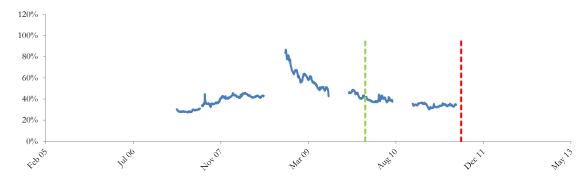


The graph above shows the historical levels of Market Vectors Gold Miners ETF's stock for the past several years. The final payoff of this note is determined by Market Vectors Gold Miners ETF's stock price correspond to a greater uncertainty in the final payout of this Buffered PLUS.

## Realized Payoff

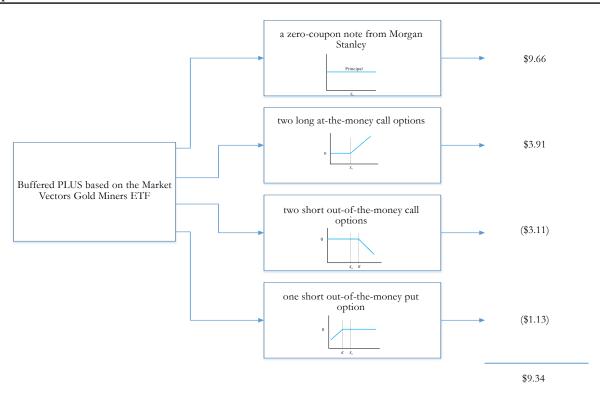
This note matured on August 24, 2011 and investors received \$12.30 per note.

## Reference Asset Market Vectors Gold Miners ETF's Stock's Implied Volatility



The annualized implied volatility of Market Vectors Gold Miners ETF's stock on February 17, 2010 was 41.15%, meaning that options contracts on Market Vectors Gold Miners ETF's stock were trading at prices that reflect an expected annual volatility of 41.15%. The higher the implied volatility, the larger the expected fluctuations of Market Vectors Gold Miners ETF's stock price and of the Note's market value during the life of the Notes.

## Decomposition of this Buffered PLUS



This note can be decomposed into different components, and each component can be valued separately. The chart above shows the value of each component of this Buffered PLUS.

- Delta measures the sensitivity of the price of the note to the Market Vectors Gold Miners ETF's stock price on February 17, 2010.
   CDS rates can be considered a measure of the probability that an issuer will default over a certain period of time and the likely loss given a default. The lower the CDS rate, the lower the default probability. CDS rate is given in basis points (1 basis point equals 0.01%), and is considered as a market premium, on top of the risk-free rate, that investors require to insure against a potential default.
   Fair price evaluation is based on the Black-Scholes model of the Market Vectors Gold Miners ETF's stock on February 17, 2010.
   Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
   Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.