

# Structured Product Details

Name	Buffere	ed SuperTrack Notes linked to SPDR S&P 500 ETF
Issue Size Issue Price Term Annualized (	Coupon	\$570,000 \$1,000 24 Months 0.00%
Pricing Date Issue Date Valuation Da Maturity Dat		August 2, 2012 August 7, 2012 August 4, 2014 August 7, 2014
Issuer CDS Rate Swap Rate		Barclays 156.06 bps 0.44%
Reference As	sset	SPDR S&P 500 ETF's
Initial Lev Dividend Implied V Delta <sup>1</sup>	Rate	stock \$136.64 1.95% 21.57% 0.52
Fair Price at	Issue	\$974.12
CUSIP SEC Link	c	06741TCY1 www.sec.gov/Archives/edgar/ lata/312070/000119312512337392/ d390142d424b2.htm

Structured Products Research Report

Report Prepared On: 02/02/13

# Buffered SuperTrack Notes linked to SPDR S&P 500 ETF

# Description

Barclays issued \$570,000 of Buffered SuperTrack Notes linked to SPDR S&P 500 ETF on August 7, 2012 at \$1,000 per note.

These notes are Barclays-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of SPDR S&P 500 ETF's stock.

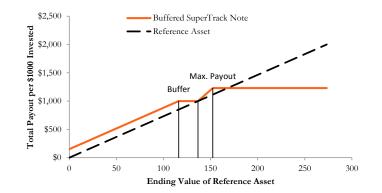
If on August 4, 2014 SPDR S&P 500 ETF's stock price is higher than \$136.64, but lower than \$152.35, the notes pay a return equal to the percentage increase in SPDR S&P 500 ETF's stock multiplied by 2.0, up to a cap of 23.00%. If on August 4, 2014 the refe is below \$136.64 but not below \$116.14, investors receive \$1,000 face value per note. If SPDR S&P 500 ETF's stock price on August 4, 2014 is lower than \$116.14, investors receive face value per note reduced by the amount the reference asset is below \$116.14 as a percent of the initial level, \$136.64.

# Valuation

This product can be valued as a combination of a note from Barclays, one short out-ofthe-money put option, two long at-the-money call options, and two short out-of-themoney call options. For reasonable valuation inputs this note was worth \$974.12 when it was issued on August 7, 2012 because the value of the options investors gave Barclays plus the interest investors would have received on Barclays's straight debt was worth \$25.88 more than the options investors received from Barclays.

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 SPDR S&P 500 ETF's stock price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in SPDR S&P 500 ETF's stock directly.

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## **Related Research**

#### **Research Papers:**

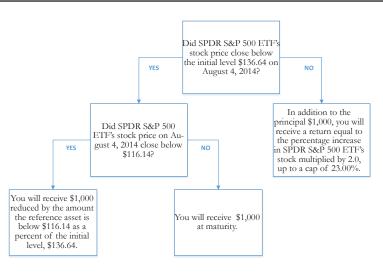
www.slcg.com/research.php

- "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.

## Principal Payback Table

SPDR S&P 500 ETF's Stock	Note Payoff
\$0.00	\$150.00
\$13.66	\$250.00
\$27.33	\$350.00
\$40.99	\$450.00
\$54.66	\$550.00
\$68.32	\$650.00
\$81.98	\$750.00
\$95.65	\$850.00
\$109.31	\$950.00
\$122.98	\$1,000.00
\$136.64	\$1,000.00
\$150.30	\$1,200.00
\$163.97	\$1,230.00
\$177.63	\$1,230.00
\$191.30	\$1,230.00
\$204.96	\$1,230.00

#### Maturity Payoff Diagram

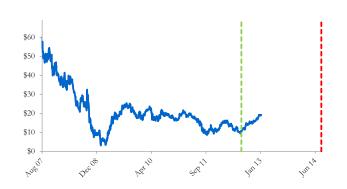


The contingent payoffs of this Buffered SuperTrack Note.

# Analysis

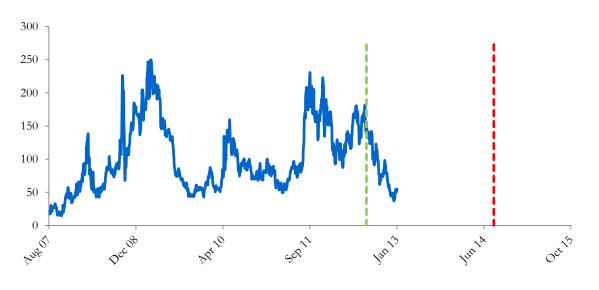
This Buffered SuperTrack Note pays investors the increase in SPDR S&P 500 ETF's stock multiplied by 2.0 capped at 23.00%, but if SPDR S&P 500 ETF's stock declines over the term of the note, investors will suffer losses equal to the percentage decline in SPDR S&P 500 ETF's stock. In addition, investors bear the credit risk of Barclays. Investors purchasing this Buffered SuperTrack Note effectively sell at-the-money put and out-of-the-money call options to Barclays, buy at-the-money call options, and a zero-coupon note from Barclays. This Buffered SuperTrack Note is fairly priced if and only if the market value of the options investors received from Barclays equals the market value of the options investors gave Barclays plus the interest investors would have received on Barclays's straight debt.

#### Barclays's Stock Price



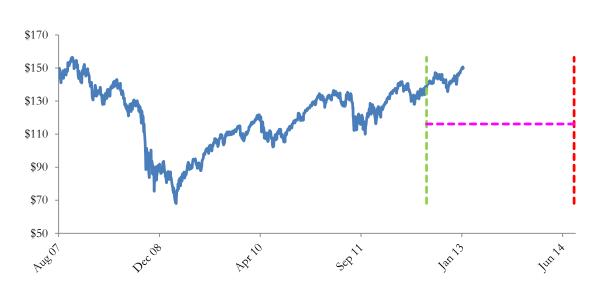
The graph above shows the adjusted closing price of the issuer Barclays for the past several years. The stock price of the issuer is an indication of the financial strength of Barclays. The adjusted price shown above incorporates any stock split, reverse stock split, etc.





Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Barclays. 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 Barclays's debt, including outstanding Buffered SuperTrack Note. Fluctuations in Barclays's CDS rate impact the market value of the notes in the secondary market.

## SPDR S&P 500 ETF's Stock Price

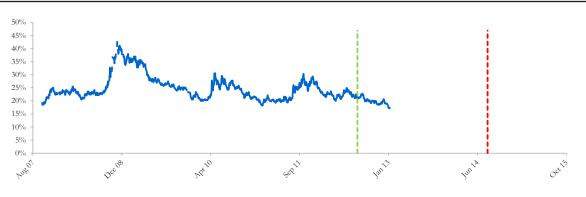


The graph above shows the historical levels of SPDR S&P 500 ETF's stock for the past several years. The final payoff of this note is determined by SPDR S&P 500 ETF's stock price at maturity. Higher fluctuations in SPDR S&P 500 ETF's stock price correspond to a greater uncertainty in the final payout of this Buffered SuperTrack Note.

#### **Realized Payoff**

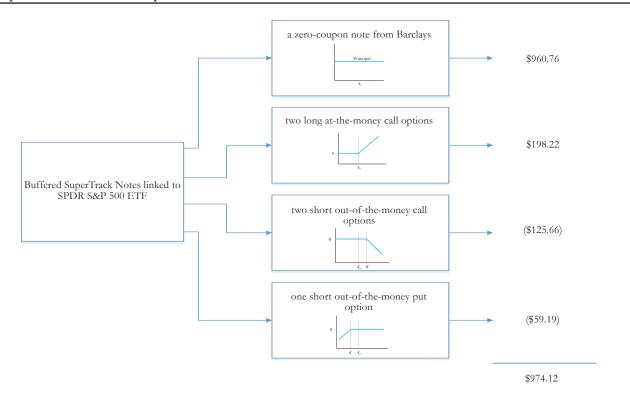
This product will mature on August 7, 2014.

## Reference Asset SPDR S&P 500 ETF's Stock's Implied Volatility



The annualized implied volatility of SPDR S&P 500 ETF's stock on August 2, 2012 was 21.57%, meaning that options contracts on SPDR S&P 500 ETF's stock were trading at prices that reflect an expected annual volatility of 21.57%. The higher the implied volatility, the larger the expected fluctuations of SPDR S&P 500 ETF's stock price and of the Note's market value during the life of the Notes.

#### Decomposition of this Buffered SuperTrack Note



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 SuperTrack Note.

- Delta measures the sensitivity of the price of the note to the SPDR S&P 500 ETF's stock price on August 2, 2012.
  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 SPDR S&P 500 ETF's stock on August 2, 2012.
  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.

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