

**Structured Product Details** 

Name Capped Buffered Underlying Securities (BUyS) linked to iShares Dow Jones U.S. Real Estate Index

Fund \$3.18 million

 Issue Size
 \$3.18 million

 Issue Price
 \$1,000

 Term
 16 Months

 Annualized Coupon
 0.00%

 Pricing Date
 March 2, 2012

 Issue Date
 March 7, 2012

 Valuation Date
 July 2, 2013

 Maturity Date
 July 8, 2013

IssuerDeutsche BankCDS Rate76.08 bpsSwap Rate0.88%

Reference Asset
Initial Level
Dividend Rate
Implied Volatility
Delta¹
Shares Dow Jones U.S.
Real Estate Index Fund
\$60.44
\$50.49
\$23.22%
0.63

**Fair Price at Issue** \$978.17 **Realized Return** 15.96%

CUSIP 2515A1HD6 SEC Link www.scc.gov/Archives/edgar/ data/1159508/000095010312001188/

dp29174\_424b2-ps1464j.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.

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# Capped Buffered Underlying Securities (BUyS) linked to iShares Dow Jones U.S. Real Estate Index Fund

# Description

Report Prepared On: 08/02/13

Deutsche Bank issued \$3.18 million of Capped Buffered Underlying Securities (BUyS) linked to iShares Dow Jones U.S. Real Estate Index Fund on March 7, 2012 at \$1,000 per note.

These notes are Deutsche Bank-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of iShares Dow Jones U.S. Real Estate Index Fund.

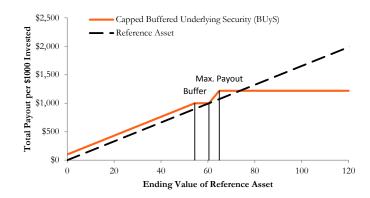
If on July 2, 2013 iShares Dow Jones U.S. Real Estate Index Fund's share price is higher than \$60.44, but lower than \$64.85, the notes pay a return equal to the percentage increase in iShares Dow Jones U.S. Real Estate Index Fund multiplied by 3.0, up to a cap of 21.90%. If on July 2, 2013 the refe is below \$60.44 but not below \$54.40, investors receive \$1,000 face value per note. If iShares Dow Jones U.S. Real Estate Index Fund's share price on July 2, 2013 is lower than \$54.40, investors receive face value per note reduced by the amount the reference asset is below \$54.40 as a percent of the initial level, \$60.44.

# **Valuation**

This product can be valued as a combination of a note from Deutsche Bank, one short out-of-the-money put option, three long at-the-money call options, and three short out-of-the-money call options. For reasonable valuation inputs this note was worth \$978.17 when it was issued on March 7, 2012 because the value of the options investors gave Deutsche Bank plus the interest investors would have received on Deutsche Bank's straight debt was worth \$21.83 more than the options investors received from Deutsche Bank.

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

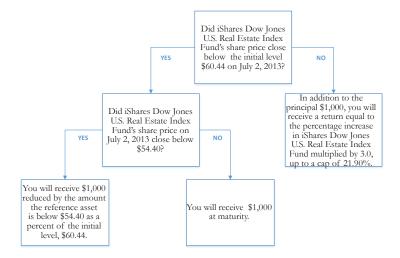


The payoff diagram shows the final payoff of this note given iShares Dow Jones U.S. Real Estate Index Fund's share price (horizontal axis). For comparison, the dashed line shows the payoff if you invested in iShares Dow Jones U.S. Real Estate Index Fund directly.

### Principal Payback Table

iShares Dow Jones U.S. Real Estate Index Fund	Note Payoff
\$0.00	\$100.00
\$6.04	\$200.00
\$12.09	\$300.00
<b>\$</b> 18.13	\$400.00
\$24.18	\$500.00
\$30.22	\$600.00
\$36.26	\$700.00
\$42.31	\$800.00
\$48.35	\$900.00
\$54.40	\$1,000.00
\$60.44	\$1,000.00
\$66.48	\$1,219.00
<b>\$</b> 72.53	\$1,219.00
\$78.57	\$1,219.00
\$84.62	\$1,219.00
\$90.66	\$1,219.00

## Maturity Payoff Diagram

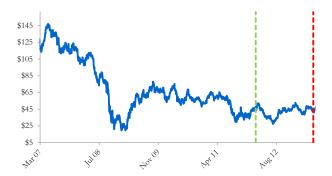


The contingent payoffs of this Capped Buffered Underlying Security (BUyS).

# **Analysis**

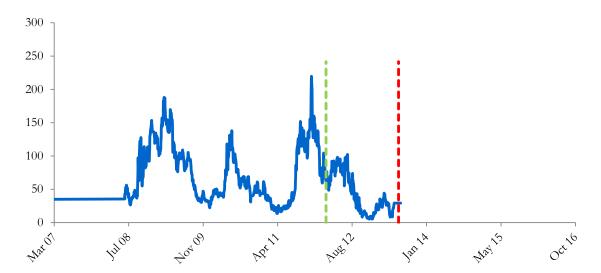
This Capped Buffered Underlying Security (BUyS) pays investors the increase in iShares Dow Jones U.S. Real Estate Index Fund multiplied by 3.0 capped at 21.90%, but if iShares Dow Jones U.S. Real Estate Index Fund declines over the term of the note, investors will suffer losses equal to the percentage decline in iShares Dow Jones U.S. Real Estate Index Fund. In addition, investors bear the credit risk of Deutsche Bank. Investors purchasing this Capped Buffered Underlying Security (BUyS) effectively sell at-the-money put and out-of-the-money call options to Deutsche Bank, buy at-the-money call options, and a zero-coupon note from Deutsche Bank. This Capped Buffered Underlying Security (BUyS) is fairly priced if and only if the market value of the options investors gave Deutsche Bank plus the interest investors would have received on Deutsche Bank's straight debt.

## Deutsche Bank's Stock Price



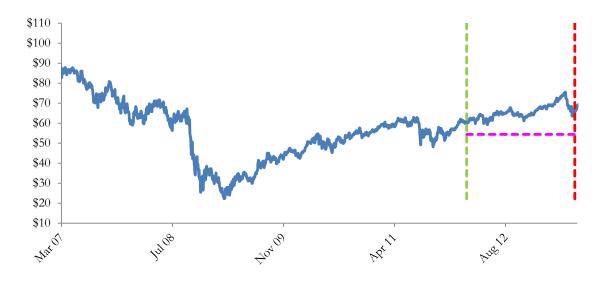
The graph above shows the adjusted closing price of the issuer Deutsche Bank for the past several years. The stock price of the issuer is an indication of the financial strength of Deutsche Bank. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

## Deutsche Bank's CDS Rate



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

#### iShares Dow Jones U.S. Real Estate Index Fund's Share Price

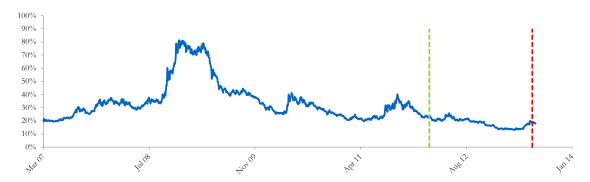


The graph above shows the historical levels of iShares Dow Jones U.S. Real Estate Index Fund for the past several years. The final payoff of this note is determined by iShares Dow Jones U.S. Real Estate Index Fund's share price at maturity. Higher fluctuations in iShares Dow Jones U.S. Real Estate Index Fund's share price correspond to a greater uncertainty in the final payout of this Capped Buffered Underlying Security (BUyS).

## Realized Payoff

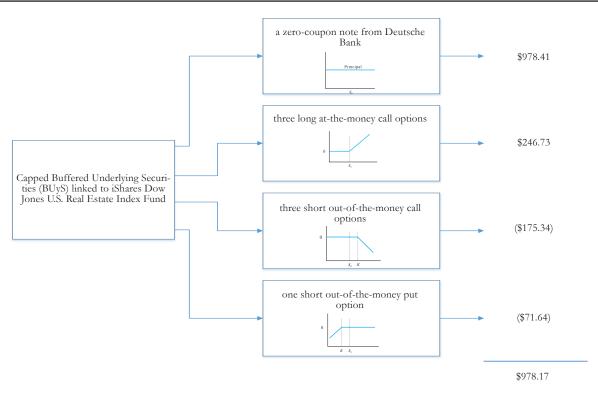
This note matured on July 8, 2013 and investors received \$1,219.00 per note.

## Reference Asset iShares Dow Jones U.S. Real Estate Index Fund's Implied Volatility



The annualized implied volatility of iShares Dow Jones U.S. Real Estate Index Fund on March 2, 2012 was 23.22%, meaning that options contracts on iShares Dow Jones U.S. Real Estate Index Fund were trading at prices that reflect an expected annual volatility of 23.22%. The higher the implied volatility, the larger the expected fluctuations of iShares Dow Jones U.S. Real Estate Index Fund's share price and of the Note's market value during the life of the Notes.

## Decomposition of this Capped Buffered Underlying Security (BUyS)



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 Capped Buffered Underlying Security (BUyS).

- 1. Delta measures the sensitivity of the price of the note to the iShares Dow Jones U.S. Real Estate Index Fund's share price on March 2, 2012.

  2. 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.

  3. Fair price evaluation is based on the Black-Scholes model of the iShares Dow Jones U.S. Real Estate Index Fund on March 2, 2012.

  4. Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.

  5. Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.