

Report Prepared On: 07/30/13

**Structured Product Details**

<b>Name</b>	Buffered Return Optimization Securities linked to Russell 2000 Index
<b>Issue Size</b>	\$6.89 million
<b>Issue Price</b>	\$10
<b>Term</b>	24 Months
<b>Annualized Coupon</b>	0.00%
<b>Pricing Date</b>	March 28, 2011
<b>Issue Date</b>	March 31, 2011
<b>Valuation Date</b>	March 22, 2013
<b>Maturity Date</b>	March 28, 2013
<b>Issuer</b>	Deutsche Bank
<b>CDS Rate</b>	39.08 bps
<b>Swap Rate</b>	0.95%
<b>Reference Asset</b>	the Russell 2000 Index
<b>Initial Level</b>	821.77
<b>Dividend Rate</b>	1.28%
<b>Implied Volatility</b>	27.74%
<b>Delta<sup>1</sup></b>	0.49
<b>Fair Price at Issue</b>	\$9.70
<b>Realized Return</b>	7.33%
<b>CUSIP</b>	25154P329
<b>SEC Link</b>	<a href="http://www.sec.gov/Archives/edgar/data/1159508/000119312511082881/d424b2.htm">www.sec.gov/Archives/edgar/data/1159508/000119312511082881/d424b2.htm</a>

**Related Research**

**Research Papers:**

[www.slcg.com/research.php](http://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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**Buffered Return Optimization Securities linked to Russell 2000 Index**

**Description**

Deutsche Bank issued \$6.89 million of Buffered Return Optimization Securities linked to Russell 2000 Index on March 31, 2011 at \$10 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 the Russell 2000 Index.

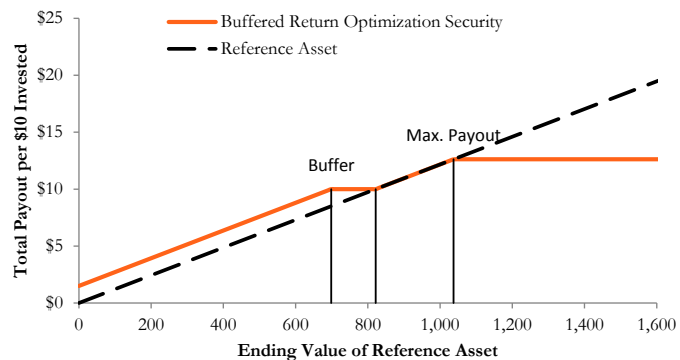
If on March 22, 2013 the Russell 2000 Index level is higher than 821.77, but lower than 1,037.48, the notes pay a return equal to the percentage increase in the Russell 2000 Index, up to a cap of 26.25%. If on March 22, 2013 the ref is below 821.77 but not below 698.5, investors receive \$10 face value per note. If the Russell 2000 Index level on March 22, 2013 is lower than 698.5, investors receive face value per note reduced by the amount the reference asset is below 698.5 as a percent of the initial level, 821.77.

**Valuation**

This product can be valued as a combination of a note from Deutsche Bank, one short out-of-the-money put option, one long at-the-money call option, and one short out-of-the-money call option. For reasonable valuation inputs this note was worth \$9.70 when it was issued on March 31, 2011 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 \$0.30 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**

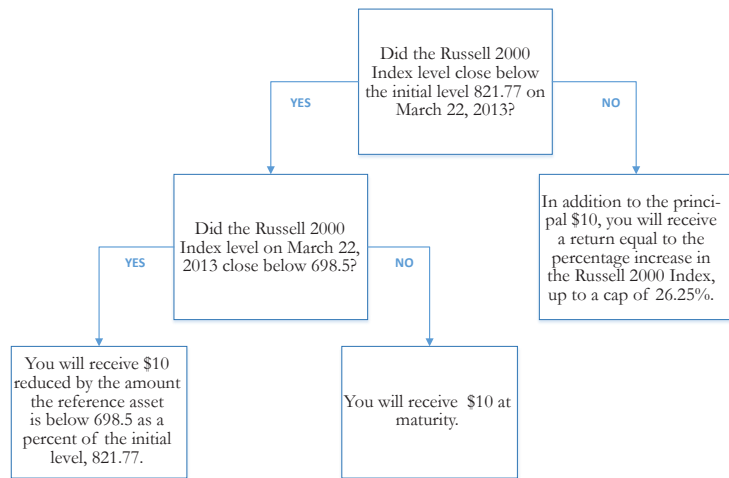


The payoff diagram shows the final payoff of this note given the Russell 2000 Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Russell 2000 Index directly.

**Principal Payback Table**

The Russell 2000 Index	Note Payoff
0.00	\$1.50
82.18	\$2.50
164.35	\$3.50
246.53	\$4.50
328.71	\$5.50
410.89	\$6.50
493.06	\$7.50
575.24	\$8.50
657.42	\$9.50
739.59	\$10.00
<b>821.77</b>	<b>\$10.00</b>
903.95	\$11.00
986.12	\$12.00
1,068.30	\$12.63
1,150.48	\$12.63
1,232.66	\$12.63

**Maturity Payoff Diagram**

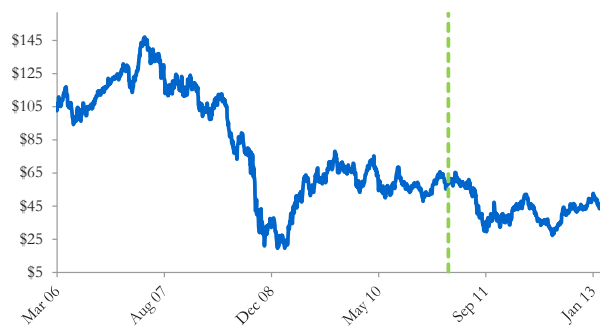


*The contingent payoffs of this Buffered Return Optimization Security.*

**Analysis**

This Buffered Return Optimization Security pays investors the increase in the Russell 2000 Index capped at 26.25%, but if the Russell 2000 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Russell 2000 Index. In addition, investors bear the credit risk of Deutsche Bank. Investors purchasing this Buffered Return Optimization Security 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 Buffered Return Optimization Security is fairly priced if and only if the market value of the options investors received from Deutsche Bank equals the market value of the options investors gave Deutsche Bank plus the interest investors would have received on Deutsche Bank’s straight debt.

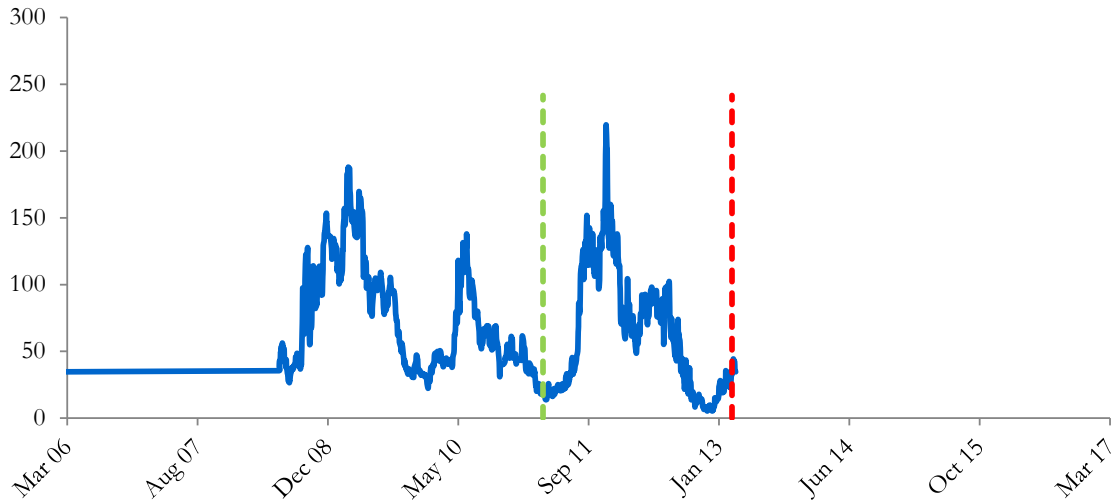
**Deutsche Bank’s Stock Price**



*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

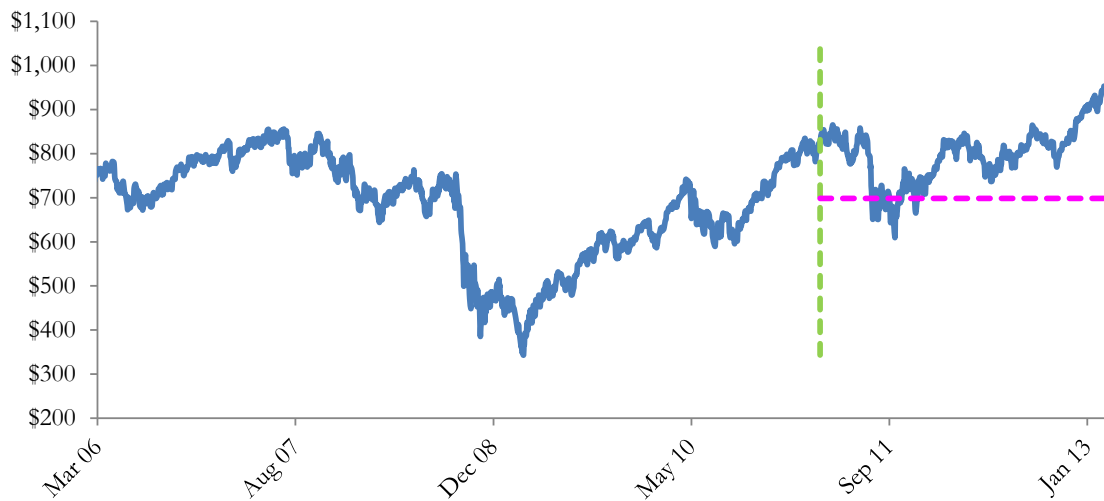
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Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Deutsche Bank. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived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

### The Russell 2000 Index Level

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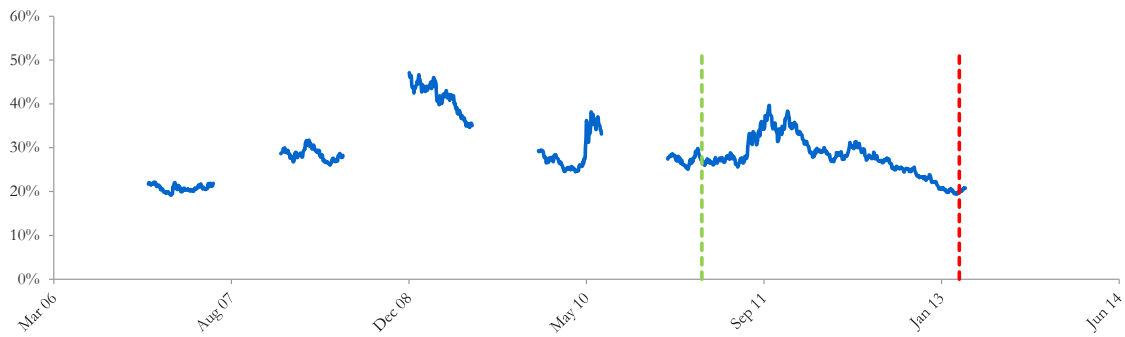
The graph above shows the historical levels of the Russell 2000 Index for the past several years. The final payoff of this note is determined by the Russell 2000 Index level at maturity. Higher fluctuations in the Russell 2000 Index level correspond to a greater uncertainty in the final payout of this Buffered Return Optimization Security.

### Realized Payoff

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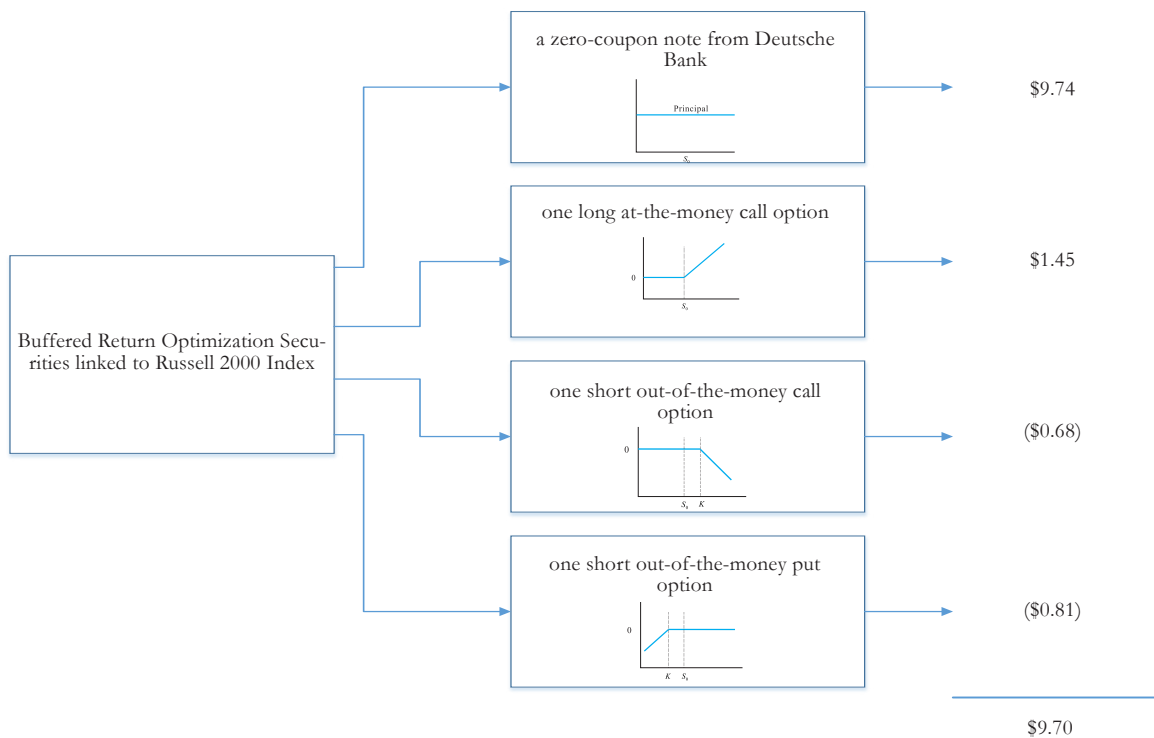
This note matured on March 28, 2013 and investors received \$11.52 per note.

## Reference Asset The Russell 2000 Index's Implied Volatility



The annualized implied volatility of the Russell 2000 Index on March 28, 2011 was 27.74%, meaning that options contracts on the Russell 2000 Index were trading at prices that reflect an expected annual volatility of 27.74%. The higher the implied volatility, the larger the expected fluctuations of the Russell 2000 Index level and of the Note's market value during the life of the Notes.

## Decomposition of this Buffered Return Optimization Security



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 Return Optimization Security.

1. Delta measures the sensitivity of the price of the note to the the Russell 2000 Index level on March 28, 2011.
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 the Russell 2000 Index on March 28, 2011.
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.