

**Structured Product Details** 

Name
Buffered Accelerated Market
Participation Securities linked to
Russell 2000 Index

 Pricing Date
 January 25, 2013

 Issue Date
 January 30, 2013

 Valuation Date
 July 25, 2014

 Maturity Date
 July 30, 2014

IssuerHSBCCDS Rate24.62 bpsSwap Rate0.61%

Reference Asset the Russell 2000 Index

Initial Level905.24Dividend Rate1.91%Implied Volatility20.59%Delta¹0.56

Fair Price at Issue \$985.29

CUSIP 40432X6F3 SEC Link www.sec.gov/Archives/edgar/ data/83246/000114420413004551/ v333266\_424b2.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.

# Buffered Accelerated Market Participation Securities linked to Russell 2000 Index

Description

Report Prepared On: 08/02/13

HSBC issued \$2.09 million of Buffered Accelerated Market Participation Securities linked to Russell 2000 Index on January 30, 2013 at \$1,000 per note.

These notes are HSBC-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.

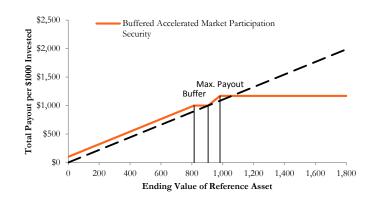
If on July 25, 2014 the Russell 2000 Index level is higher than 905.24, but lower than 982.19, the notes pay a return equal to the percentage increase in the Russell 2000 Index multiplied by 2.0, up to a cap of 17.00%. If on July 25, 2014 the refe is below 905.24 but not below 814.72, investors receive \$1,000 face value per note. If the Russell 2000 Index level on July 25, 2014 is lower than 814.72, investors receive face value per note reduced by the amount the reference asset is below 814.72 as a percent of the initial level, 905.24.

## **Valuation**

This product can be valued as a combination of a note from HSBC, one short out-of-themoney 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 \$985.29 when it was issued on January 30, 2013 because the value of the options investors gave HSBC plus the interest investors would have received on HSBC's straight debt was worth \$14.71 more than the options investors received from HSBC.

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



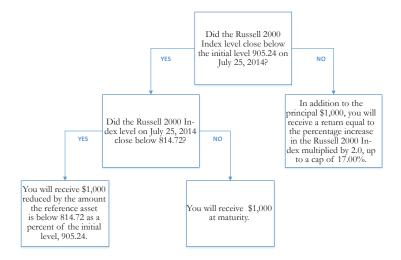
The payoff diagram shows the final payoff of this note given the Russell 2000 Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Russell 2000 Index directly.

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### Principal Payback Table

The Russell 2000 Index	Note Payoff
0.00	\$100.00
90.52	\$200.00
181.05	\$300.00
271.57	\$400.00
362.10	\$500.00
452.62	\$600.00
543.14	\$700.00
633.67	\$800.00
724.19	\$900.00
814.72	\$1,000.00
905.24	\$1,000.00
995.76	\$1,170.00
1,086.29	\$1,170.00
1,176.81	\$1,170.00
1,267.34	\$1,170.00
1,357.86	\$1,170.00

### Maturity Payoff Diagram

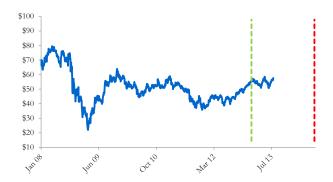


The contingent payoffs of this Buffered Accelerated Market Participation Security.

# **Analysis**

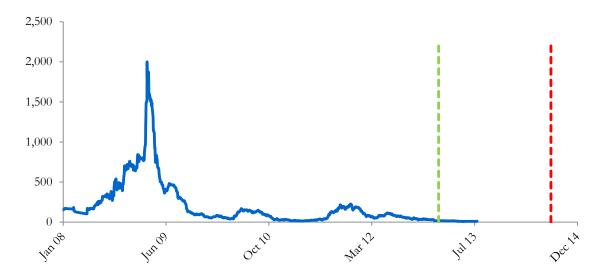
This Buffered Accelerated Market Participation Security pays investors the increase in the Russell 2000 Index multiplied by 2.0 capped at 17.00%, but if the Russell 2000 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Russell 2000 Index. In addition, investors bear the credit risk of HSBC. Investors purchasing this Buffered Accelerated Market Participation Security effectively sell at-themoney put and out-of-the-money call options to HSBC, buy at-the-money call options, and a zero-coupon note from HSBC. This Buffered Accelerated Market Participation Security is fairly priced if and only if the market value of the options investors received from HSBC equals the market value of the options investors gave HSBC plus the interest investors would have received on HSBC's straight debt.

### **HSBC's Stock Price**



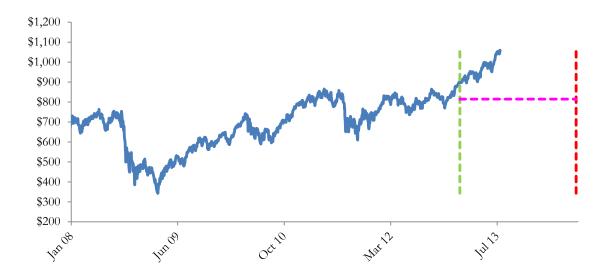
The graph above shows the adjusted closing price of the issuer HSBC for the past several years. The stock price of the issuer is an indication of the financial strength of HSBC. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

## HSBC's CDS Rate



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

### The Russell 2000 Index Level

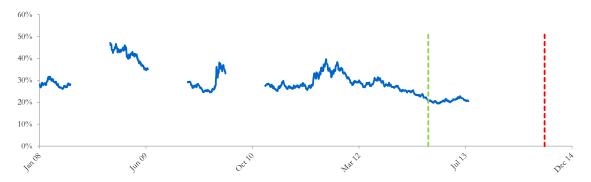


The graph above shows the historical levels of the Russell 2000 Index for the past several years. The final payoff of this note is determined by the Russell 2000 Index level at maturity. Higher fluctuations in the Russell 2000 Index level correspond to a greater uncertainty in the final payout of this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

### Realized Payoff

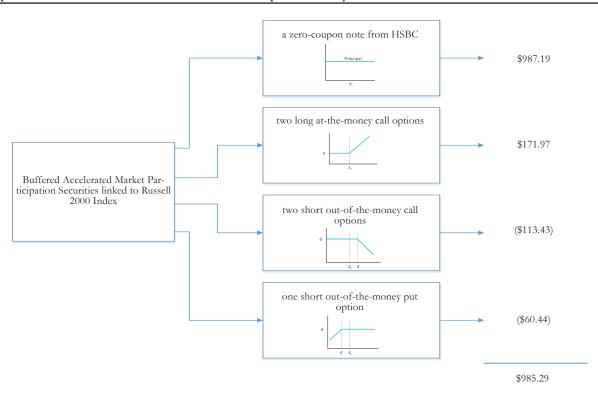
This product will mature on July 30, 2014.

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



The annualized implied volatility of the Russell 2000 Index on January 25, 2013 was 20.59%, meaning that options contracts on the Russell 2000 Index were trading at prices that reflect an expected annual volatility of 20.59%. 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 Accelerated Market Participation 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 Accelerated Market Participation Security.

- Delta measures the sensitivity of the price of the note to the Russell 2000 Index level on January 25, 2013.
   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 the Russell 2000 Index on January 25, 2013.
   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.