## Structured Product Details

\(\left.$$
\begin{array}{lr}\text { Name } & \begin{array}{r}\text { Buffered Accelerated Return } \\
\text { Securities linked to Russell 2000 }\end{array}
$$ <br>

Index\end{array}\right\}\)| Issue Size | $\$ 7.40$ million |
| :--- | ---: |
| Issue Price | $\$ 1,000$ |
| Term | 18 Months |
| Annualized Coupon | $0.00 \%$ |
| Pricing Date | October 18, 2013 |
| Issue Date | October 25, 2013 |
| Valuation Date | April 17, 2015 |
| Maturity Date | April 24, 2015 |
| Issuer | Credit Suisse |
| CDS Rate | 31.21 bps |
| Swap Rate | $0.53 \%$ |
|  |  |
| Reference Asset | the Russell 2000 Index |
| Initial Level | $1,114.77$ |
| Dividend Rate | $1.56 \%$ |
| Implied Volatility | $20.02 \%$ |
| Delta ${ }^{1}$ | 0.45 |


| Fair Price at Issue | $\$ 997.04$ |
| :--- | ---: |
| CUSIP | 22547 QCJ3 |
| SEC Link | data/1053092/000095010313006129/ | 2/00095010313006129/ dp41410 424b2-k358.htm

## Buffered Accelerated Return Securities linked to Russell 2000 Index

## Description

Credit Suisse issued $\$ 7.40$ million of Buffered Accelerated Return Securities linked to Russell 2000 Index on October 25, 2013 at $\$ 1,000$ per note.

These notes are Credit Suisse-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 April 17, 2015 the Russell 2000 Index level is higher than 1,114.77, but lower than $1,289.79$, the notes pay a return equal to the percentage increase in the Russell 2000 Index, up to a cap of $15.70 \%$. If on April 17, 2015 the refe is below $1,114.77$ but not below 947.55 , investors receive $\$ 1,000$ face value per note. If the Russell 2000 Index level on April 17, 2015 is lower than 947.55 , investors receive face value per note reduced by the amount the reference asset is below 947.55 as a percent of the initial level, 1,114.77.

## Valuation

This product can be valued as a combination of a note from Credit Suisse, one short out-of-the-money put option, one long at-the-money call option, and one short out-of-themoney call option. For reasonable valuation inputs this note was worth $\$ 997.04$ when it was issued on October 25, 2013 because the value of the options investors gave Credit Suisse plus the interest investors would have received on Credit Suisse's straight debt was worth $\$ 2.96$ more than the options investors received from Credit Suisse.

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.

Tim Husson, Ph.D.,
Senior Financial Economist, SLCG
(+1) 703.890.0743
TimHusson@slcg.com
$\underline{\text { Principal Payback Table }}$

| The Russell 2000 <br> Index | Note Payoff |
| :---: | :---: |
| 0.00 | $\$ 150.00$ |
| 111.48 | $\$ 250.00$ |
| 222.95 | $\$ 350.00$ |
| 334.43 | $\$ 450.00$ |
| 445.91 | $\$ 550.00$ |
| 557.39 | $\$ 650.00$ |
| 668.86 | $\$ 750.00$ |
| 780.34 | $\$ 850.00$ |
| 891.82 | $\$ 950.00$ |
| $1,003.29$ | $\$ 1,000.00$ |
| $1,114.77$ | $\$ 1,000.00$ |
| $1,226.25$ | $\$ 1,100.00$ |
| $1,337.72$ | $\$ 1,157.00$ |
| $1,449.20$ | $\$ 1,157.00$ |
| $1,560.68$ | $\$ 1,157.00$ |
| $1,672.16$ | $\$ 1,157.00$ |

Maturity Payoff Diagram


The contingent payoffs of this Buffered Accelerated Return Security.

## Analysis

This Buffered Accelerated Return Security pays investors the increase in the Russell 2000 Index capped at $15.70 \%$, 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 Credit Suisse. Investors purchasing this Buffered Accelerated Return Security effectively sell at-the-money put and out-of-the-money call options to Credit Suisse, buy at-the-money call options, and a zero-coupon note from Credit Suisse. This Buffered Accelerated Return Security is fairly priced if and only if the market value of the options investors received from Credit Suisse equals the market value of the options investors gave Credit Suisse plus the interest investors would have received on Credit Suisse's straight debt.

## Credit Suisse's Stock Price



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

## Credit Suisse's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Credit Suisse. CDS rates are usually given in basis points (bps). One basis point equals $0.01 \%$. Higher CDS rates reflect bigher perceived credit risk, higher required yuelds, and therefore lower market value of Credit Suisse's debt, including outstanding Buffered Accelerated Return Security. Fluctuations in Credit Suisse'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 Return Security.

## Realized Payoff

This product will mature on April 24, 2015.

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



The annualized implied volatility of the Russell 2000 Index on October 18, 2013 was 20.02\%, meaning that options contracts on the Russell 2000 Index were trading at prices that reflect an expected annual volatility of $20.02 \%$. The bigher 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 Return 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 Return Security.

1. Delta measures the sensitivity of the price of the note to the the Russell 2000 Index level on October 18, 2013.
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 October 18, 2013.
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.
